2018
ANNUAL REPORT

cipher™
PHARMACEUTICALS

ABOUT CIPHER

Cipher (TSX:CPH) is a specialty pharmaceutical company with a robust and diversified portfolio of commercial and early to late-stage products. Cipher acquires products that fulfill unmet medical needs, manages the required clinical development and regulatory approval process, and markets those products either directly in Canada or indirectly through partners in Canada, the U.S., and South America. Cipher is focused on a three-pronged growth strategy—including acquisitions, in-licensing, and selective investments in drug development—to assemble a broad portfolio of prescription products that serve unmet medical needs.
For more information, visit www.cipherpharma.com.

2018 KEY RESULTS

+30%

YOY ORGANIC PRODUCT REVENUE GROWTH IN CND SEGMENT

$5.7M

DEBT REPAID WITH CASH GENERATED FROM OPERATIONS

6

TRANSACTIONS SUCCESSFULLY EXECUTED ACROSS MULTIPLE GROWTH PILLARS

Advancing New Revenue Streams

2 NDS submissions
1 NOC
2 Product launches

Expanding Commercial Portfolio

Added five (5) highly innovative assets with clear advantages vs. current standards of care

Near term assets with approximately 24 months between transaction closing and first commercial sale

ABSORICA Life Cycle Management

Amended distribution and supply agreement with Sun Pharmaceuticals to expand and extend our royalty stream

New royalty provided to Cipher calculated on net sales of all new isotretinoin products launched by Sun in the US prior to 2025

Letter to Shareholders

Looking back on 2018, it is remarkable how Cipher has evolved in the last 12 months. When the year started, we had just completed a process to transform Cipher by improving operations, enhancing our financial position and establishing a growth strategy to address key challenges and invigorate our business. The key challenges facing our business, included a relatively modest Canadian commercial portfolio focused solely in dermatology and reliant on a single asset; our lead licensing product, ABSORICA® was approaching a patent cliff with no life cycle management and our licensing business was mature and declining. Our new strategy will diversify our business and increase the possibilities for future growth.

The growth strategy at Cipher is to build a robust portfolio of prescription products across a select range of therapeutic areas that address unmet medical need. The focus of the Company's strategy is to:

- acquire or in-license innovative and novel prescription medicines for the Canadian market;
- acquire businesses with commercial products, proven capabilities or where substantial synergies are available; and
- selectively invest in drug development programs where we see a favourable risk/return profile.

In 2018, we made substantial progress executing on our growth strategy.

In 2018, we made substantial progress executing on our growth strategy. We completed six transactions that provide new growth avenues, transform our pipeline and over time, will significantly diversify and improve our financial operating results.

- In January, we granted Italmex Pharma S.A. exclusive rights to market, sell and distribute our Isotretinoin product in Mexico.
- In February, we acquired the exclusive Canadian rights from Synergy Pharmaceuticals Inc. to TRULANCE®, an FDA-approved once-daily tablet for adults with chronic idiopathic constipation and irritable bowel syndrome with constipation. Cipher filed a New Drug Submission (NDS) that was accepted for review by Health Canada in December.
- In April, we acquired the exclusive Canadian rights to A-101 40%, an FDA approved topical solution indicated for the treatment of raised seborrheic keratoses. A-101 40% is marketed by Aclaris Therapeutics, Inc. in the U.S. under the tradename ESKATA™. Cipher filed an NDS that was accepted for review by Health Canada in December.
- In May, we closed a transaction pursuant to which Cipher acquired the Canadian business portfolio of Cardiome Pharma Corp., which included two commercial products (BRINAVESS® and AGGRASTAT®) and two late-stage pipeline products (XYDALBA™ and TREVYANT®) used in the acute care setting in hospitals.

- In July, we amended our distribution and supply agreement with Sun Pharmaceuticals Inc. ("Sun") to provide Sun with the ability to launch new isotretinoin products used to treat severe acne prior to the expiry of the current agreement in November 2022. Cipher will receive a royalty on net sales of all Sun's isotretinoin products launched prior to December 2024.
- In September, we acquired the exclusive rights to MOB-015 from Moberg Pharma AB. MOB-015 is a patented proprietary formulation of terbinafine for the topical treatment of onychomycosis, a fungal infection of the nail.

Our Canadian business continues to provide a tremendous platform that we are building upon.

Our Canadian business continues to provide a tremendous platform that we are building upon. In the year, product revenue increased by 30% to $6.9 million, led by EPURIS®, which recorded revenue of $5.8 million. EPURIS achieved a record market share of more than 33%[1] during the year, compared to 28% for the same period last year. Importantly, EPURIS has become the #1 prescribed oral isotretinoin by Dermatologist in Canada and in Ontario, our largest market, EPURIS is now the market leader with over 51% market share. We launched two new products in 2018, OZANEX™ and BRINAVESS® that will contribute to revenue growth in our Canadian portfolio and in 2019, we expect to launch XYDALBA and we also anticipate regulatory approvals for TRULANCE and A-101.

Our mature global licensing business provided a solid base of high-margin royalty revenue for the year with $15.9 million in revenue.

Our mature global licensing business provided a solid base of high-margin royalty revenue for the year with $15.9 million in revenue. As expected, licensing revenue from ABSORICA decreased significantly from $34.9 million in 2017 as the promotional campaign that our partner executed on was completed in late 2017.

In summary, 2019 will be a year focused on execution at Cipher, executing on the current launches of BRINAVESS and XYDALBA, executing on the regulatory submissions for TRULANCE and A-101 and executing on business development to look for new assets that support our growth strategy.

In closing, I would like to thank our shareholders for their patience and support while we execute on our growth plan and build Cipher into a premier Canadian pharmaceutical company. I look forward to updating you on our progress throughout 2019.

All of this would not be possible without the support of the tremendous team we have at Cipher. I would like to personally thank all Cipher employees for their dedication and hard work.

Sincerely,

"Signed"

Robert Tessarolo
President and Chief Executive Officer

April 9, 2019

1) Source: IQVIA

MANAGEMENT'S DISCUSSION AND ANALYSIS

December 31, 2018

The following is a discussion and analysis of the operating results and financial position of Cipher Pharmaceuticals Inc. and its subsidiaries ("Cipher" or "the Company") for the year ended December 31, 2018. This document should be read in conjunction with the audited annual consolidated financial statements and the accompanying notes, which have been prepared in accordance with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board ("IFRS"). Additional information about the Company, including the audited annual consolidated financial statements and Annual Information Form for the year ended December 31, 2018, is available on SEDAR at www.sedar.com.

The discussion and analysis within this Management's Discussion and Analysis ("MD&A") are as at March 18, 2019. All dollar figures are stated in U.S. dollars unless otherwise indicated.

Caution Regarding Forward-Looking Statements

This document includes forward-looking statements within the meaning of applicable securities laws. These forward-looking statements include, among others, statements with respect to our objectives, goals and strategies to achieve those objectives and goals, as well as statements with respect to our beliefs, plans, expectations, anticipations, estimates and intentions. The words "may", "will", "could", "should", "would", "suspect", "outlook", "believe", "plan", "anticipate", "estimate", "expect", "intend", "forecast", "objective", "hope" and "continue" (or the negative thereof), and words and expressions of similar import, are intended to identify forward-looking statements.

By their very nature, forward-looking statements involve inherent risks and uncertainties, both general and specific, which give rise to the possibility that predictions, forecasts, projections and other forward-looking statements will not be achieved. Certain material factors or assumptions are applied in making forward-looking statements and actual results may differ materially from those expressed or implied in such statements. We caution readers not to place undue reliance on these statements as a number of important factors, many of which are beyond our control, could cause our actual results to differ materially from the beliefs, plans, objectives, expectations, anticipations, estimates and intentions expressed in such forward-looking statements. These factors include, but are not limited to, our ability to enter into in-licensing, development, manufacturing and marketing and distribution agreements with other pharmaceutical companies and keep such agreements in effect; our dependency on a limited number of products; our dependency on protection from patents that will expire; integration difficulties and other risks if we acquire or in-license technologies or product candidates; reliance on third parties for the marketing of certain products; the product approval process is highly unpredictable; the timing of completion of clinical trials, regulatory submissions and regulatory approvals; reliance on third parties to manufacture our products and events outside of our control that could adversely impact the ability of our manufacturing partners to supply products to meet our demands; we may be subject to future product liability claims; unexpected product safety or efficacy concerns may arise; we generate license revenue from a limited number of distribution and supply agreements; the pharmaceutical industry is highly competitive; requirements for additional capital to fund future operations; products in Canada may be subject to pricing regulation; dependence on key managerial personnel and external collaborators; no assurance that we will receive regulatory approvals in the U.S., Canada or any other jurisdictions and current uncertainty surrounding health care regulation in the U.S.; certain of our products are subject to regulation as controlled substances; limitations on reimbursement in the healthcare industry; limited reimbursement for products by government authorities and third-party payor policies; products may not be included on list of drugs approved for use in hospitals; hospital customers may make late payments or not make any payments; various laws pertaining to health care fraud and abuse; reliance on the success of strategic investments and partnerships; the publication of negative results of clinical trials; unpredictable development goals and projected time frames; rising insurance costs; ability to enforce covenants not to compete; risks associated with the industry in which it operates; we may be unsuccessful in evaluating material risks involved in completed and future acquisitions; we may be unable to identify, acquire or integrate acquisition targets successfully; legacy risks from operations conducted in the U.S.; inability to meet covenants under our long term debt arrangement; compliance with privacy and security regulation; our policies regarding returns, allowances and chargebacks may reduce revenues; certain current and future regulations could restrict our activities; additional regulatory burden and controls over financial reporting; reliance on third parties to perform certain services; general commercial litigation, class actions, other litigation claims and regulatory actions; the difficulty for shareholders to realize in the United States upon judgments of U.S. courts predicated upon civil liability of the Company and its directors and officers who are not residents of the United States; the potential violation of intellectual property rights of third parties; our efforts to obtain, protect or enforce our patents and other intellectual property rights related to our products; changes in U.S., Canadian or foreign patent laws; litigation in the pharmaceutical industry concerning the manufacture and supply of novel and generic versions of existing

drugs; inability to protect our trademarks from infringement; shareholders may be further diluted if we issue securities to raise capital; volatility of our share price; the actions of a significant shareholder; we do not currently intend to pay dividends; our operating results may fluctuate significantly; and our debt obligations will have priority over the Common Shares in the event of a liquidation, dissolution or winding up.

We caution that the foregoing list of important factors that may affect future results is not exhaustive. When reviewing our forward-looking statements, investors and others should carefully consider the foregoing factors and other uncertainties and potential events. Additional information about factors that may cause actual results to differ materially from expectations, and about material factors or assumptions applied in making forward-looking statements, may be found in the "Risk Factors" section of this MD&A and the Annual Information Form for the year ended December 31, 2018, and elsewhere in our filings with Canadian securities regulators. Except as required by Canadian securities law, we do not undertake to update any forward-looking statements, whether written or oral, that may be made from time to time by us or on our behalf; such statements speak only as of the date made. The forward-looking statements included herein are expressly qualified in their entirety by this cautionary language.

Market Industry Data

The market and industry data contained in this MD&A is based upon information from independent industry and other publications and our knowledge of, and experience in, the industry in which the Company operates. Market and industry data is subject to variations and cannot be verified with complete certainty due to limits on the availability and reliability of raw data at any particular point in time, the voluntary nature of the data gathering process or other limitations and uncertainties inherent in any statistical survey. Accordingly, the accuracy and completeness of this data are not guaranteed. Cipher has not independently verified any of the data from third party sources referred to in this MD&A or ascertained the underlying assumptions relied upon by such sources.

Overview

Cipher (TSX:CPH) is a specialty pharmaceutical company with a diversified portfolio of commercial and early to late-stage products. Cipher acquires products that fulfill unmet medical needs, manages the required clinical development and regulatory approval process, and markets these products directly in Canada or indirectly through partners in the U.S., Canada and Latin America.

On May 1, 2017, the Company, through its wholly owned subsidiary Cipher Pharmaceuticals US LLC (formerly known as Innocutis Holdings LLC or "Innocutis") ("Cipher U.S."), sold substantially all of the assets of its U.S. segment (the "U.S. Assets"). The Company no longer directly markets products in the U.S.

Corporate Strategy

Cipher's corporate strategy is to build a portfolio of prescription products across a broad range of therapeutic areas that meet an unmet medical need. The focus of the Company's strategy is to:

- acquire or in-license prescription medicines for the Canadian market;
- acquire businesses with commercial products, proven capabilities or where substantial synergies are available;
- out-license products in markets where Cipher does not have a commercial presence; and
- selectively invest in drug development programs where we see a favourable risk/return profile.

The Company is actively assessing and sourcing opportunities that would build on the strengths of the organization, including a scalable commercial infrastructure in Canada. The execution of any transaction is contingent on the Company being able to negotiate acceptable terms and securing the necessary financing.

Significant Transactions

2018

TRULANCE® ACQUISITION

On February 27, 2018, the Company acquired the exclusive Canadian rights to develop, market, distribute and sell TRULANCE (plecanatide) from Synergy Pharmaceuticals Inc. ("Synergy"). TRULANCE is a once-daily tablet approved by the

U.S. Food and Drug Administration (“FDA”) for the treatment of adults with chronic idiopathic constipation (“CIC”) and irritable bowel syndrome with constipation (“IBS-C”). The Company filed a New Drug Submission (“NDS”) with Health Canada in the fourth quarter of 2018, which was accepted by Health Canada for review. Under the terms of the licensing agreement, the Company made an upfront payment of $5.0 million. The transaction also includes a regulatory milestone payment of $0.8 million and royalties on net product sales in Canada.

The total Canadian laxative and antispasmodic market size (prescription and over-the-counter) is estimated at over CDN$200.0 million in 2018, of which the prescription market size is estimated at CDN$19.0 million, according to IQVIA (“IQVIA”) formerly IMS Health/IMS Quintiles.

A-101 ACQUISITION

On April 5, 2018, the Company acquired the exclusive Canadian rights to distribute and commercialize A-101 from Aclaris Therapeutics, Inc. (“Aclaris”). A-101 is an FDA-approved topical product indicated for the treatment of raised seborrheic keratoses (“SK”), which are commonly occurring non-cancerous skin growths that affect more than nine million Canadian adults and can be an aesthetic skin concern. A-101 was approved by the FDA in December 2017 and is marketed by Aclaris in the U.S. under the tradename Eskata™. A-101 is a proprietary, high-concentration hydrogen peroxide-based topical solution designed for in-office application by a healthcare provider and is a targeted treatment applied directly to the raised SK using a pen-like applicator. The most common treatment for SK are surgical procedures such as cryosurgery, which can cause discomfort, cosmetic imperfections, and require wound management. Under the terms of the licensing agreement, the Company made an upfront payment of $1.0 million, is required to make payments of up to $2.8 million upon the achievement of certain regulatory and commercial milestones and make royalty payments based on net product sales in Canada. The Company filed a NDS with Health Canada in the fourth quarter of 2018, which was accepted by Health Canada for review. The Company made a $0.5 million milestone payment upon Health Canada acceptance for review.

CARDIOME TRANSACTION AND CREDIT FACILITY AMENDMENT

On May 15, 2018, the Company completed its acquisition of the Canadian business portfolio of Cardiome Pharma Corp. (“Cardiome”) following a restructuring of Cardiome pursuant to a statutory plan of arrangement under the Canada Business Corporations Act. Pursuant to the arrangement, former Cardiome shareholders received common shares, on a one-for-one basis, of a newly created Canadian entity named Correvio Pharma Corp. (“Correvio”). The Company subsequently acquired from Correvio all of the outstanding common shares of Cardiome, which held only the Canadian business portfolio, for cash consideration of CDN$25.5 million. The total transaction costs incurred for the acquisition were CDN$0.8 million. The Company financed this acquisition with a combination of cash and an amendment to its current credit facility to draw an additional $5.0 million. Other than an increase in the Company’s quarterly principal repayment amounts over the remainder of the term from $1.7 million to $2.0 million, there were no material changes to the terms of the credit facility.

The Canadian business portfolio acquired by Cipher included commercial and pipeline hospital products administered in the acute care setting, including:

- Brinavess® (vernakalant IV), for the rapid conversion of recent onset atrial fibrillation to sinus rhythm;
- Aggrastat® (tirofiban hydrochloride), for the reduction of thrombotic cardiovascular events in patients with acute coronary syndrome;
- Xydalba™ (dalbavancin hydrochloride), the first and only 30-minute, one-dose treatment option for the treatment of acute bacterial skin and skin structure infections; and
- Trevyent® a drug device combination that delivers treprostinil, the world's leading treatment for pulmonary arterial hypertension.

Brinavess and Aggrastat are currently on the market in Canada. Xydalba, which is approved and marketed by Allergan in the U.S. under the trade name Dalvance, received Health Canada approval in the third quarter of 2018 and the Company plans on launching the product in the first half of 2019.

MOB-015

On September 18, 2018, the Company entered into an exclusive license agreement with Moberg Pharma AB (“Moberg”) to commercialize and distribute MOB-015. Moberg is currently running the phase III trial that is required for the regulatory submission to Health Canada. MOB-015 is a patented proprietary formulation of terbinafine for the topical treatment of onychomycosis. Onychomycosis is a fungal nail infection with an estimated prescription market of CDN$58.0 million according to IQVIA. Under the terms of the agreement, the Company made an upfront payment of $0.5 million. Additional payments of

up to $14.1 million are required upon successful achievement of certain development and regulatory milestones and upon reaching certain annual net sales in Canada. Moberg will supply finished product to the Company.

2017

U.S. ASSET SALE

On May 1, 2017, the Company sold the U.S. Assets pursuant to an asset purchase agreement (the "U.S. APA"). Under the terms of the U.S. APA, the Company received consideration of $13.6 million, subject to certain working capital adjustments and the transfer of certain liabilities as set out in the U.S. APA. The Company retained responsibility for certain liabilities and commitments related to the assets sold. The U.S. APA also included a potential regulatory milestone payment of up to $0.75 million payable to the Company if certain predefined conditions were achieved, which conditions were subsequently met in the fourth quarter of 2017 with Cipher receiving $0.7 million net of administrative costs and included a hold back of $1.7 million which was paid to Cipher in the fourth quarter of 2018. On closing, the Company received $7.6 million in cash. The total cash consideration received by Cipher to date is $11.0 million which includes receipt of a working capital adjustment payment of $1.0 million in the third quarter of 2017.

Prior to the Cipher U.S. asset sale, the Company operated two distinct business segments: Canada and the United States. Subsequent to the sale, the Company now operates one segment.

SENIOR SECURED NOTES

In April 2015, Cipher closed on a private offering of up to $100 million in aggregate principal amount of Senior Secured Notes (the "Notes") due in 2020, provided by investment funds managed by Athyrium Capital Management (together, "Athyrium") pursuant to the original share purchase agreement (the "Original SPA"). The Company received an initial drawdown of $40.0 million, which was used to fund the majority of the purchase price for Innocutis. The remaining balance of the Notes ($60.0 million) was intended to finance future acquisitions and was available to Cipher up until June 30, 2016 at which time the balance of the Notes expired. As a result of the expiry of the $60.0 million balance of the Notes, the Company wrote off debt issuance costs in the amount of $1.8 million in Q2 2016. The Notes bore interest at a fixed rate of 10.25% per annum, payable quarterly in arrears on the last day of each quarter, and were set to mature in five years, unless repurchased earlier. The Notes were interest-only and were secured by assets of the Company and its subsidiaries, subject to certain exceptions. Upon repayment of the principal in part or in full, a 5% borrowing fee was assessable and payable. The Company had the option to repay the Notes in part or in full prior to the maturity date subject to a prepayment premium that declined over time. If the Company prepaid the Notes from the proceeds received from the disposition of assets, a prepayment premium would be applied. The Notes had certain restrictive covenants, including those related to quarterly consolidated net revenue, minimum cash balance and consolidated leverage ratio. Under the terms of a fifth amendment to the Original SPA in December 2016, the minimum sales covenant for the fourth quarter of fiscal year 2016 was decreased to $8.0 million from $10.0 million and the Company agreed to prepay its debt obligations using the proceeds received from dispositions of assets.

On March 31, 2017, the Company entered into its sixth amendment to the Original SPA (the "Amendment") with Athyrium to amend the terms of the Notes under the Original SPA. In connection with the Amendment, the Company agreed to prepay $20.0 million of the outstanding Notes balance on April 5, 2017. The Amendment was accounted for as an extinguishment as the terms of the amended agreement were substantially different from the Original SPA. Therefore, the unamortized costs related to the Notes were accelerated and recognized as part of the loss on extinguishment. In addition, on April 5, 2017 the Company paid the 5% borrowing fee, the 5% prepayment penalty and an amendment fee, which have been recognized as part of the loss on extinguishment. In consideration for the prepayment, Athyrium waived the requirement that the net cash proceeds from the sale of the U.S. Assets be used to prepay the Notes, modified the financial covenants and removed its security interest on the assets of Cipher U.S. On November 3, 2017 the Company repaid the Notes in full including a prepayment penalty of $1.0 million and a borrowing fee of $1.0 million.

CREDIT FACILITY

On November 3, 2017, the Company entered into a credit agreement, with a Canadian lender to extinguish its existing Notes and replace with a credit facility. In connection with the credit agreement, the Company used the proceeds of $20.0 million to fully extinguish the remaining balance of the Notes. The credit facility has a three year term, carrying an interest rate of LIBOR plus an applicable margin ranging from 1.5% to 2.5% based on the total debt to EBITDA ratio, as defined in the credit agreement. Principal and interest payments are payable quarterly in arrears. The credit facility also carries an accordion feature that allows for an additional $10.0 million of capacity, subject to customary terms and conditions. The Company is subject to certain financial and non-financial covenants. The credit facility is secured by the assets of the Company. The total

transaction costs incurred were $0.2 million (refer to Cardiome Transaction and Credit Facility Amendment, under Significant Transactions -2018).

Significant Partnerships

GALEPHAR

In 2002, the Company entered into a master licensing and clinical supply agreement (the “Galephar Agreement") with Galephar, Pharmaceutical Research, Inc. (“Galephar”), a Puerto Rico based pharmaceutical research and manufacturing company. Under the Galephar Agreement, the Company acquired the rights to package, test, obtain regulatory approvals and market CIP-FENOFIBRATE, CIP-ISOTRETINOIN and CIP-TRAMADOL ER in various territories. In particular, the Company has the rights to sell, market and distribute, on a perpetual basis, as follows:

- exclusive rights throughout the world for Galephar’s capsule formulation of Tramadol;
- exclusive rights in North, South and Central America, the Caribbean and Bermuda for Galephar’s capsule formulation of Isotretinoin and non-exclusive rights in certain other countries; and
- exclusive rights in North, South and Central America, the Caribbean and Bermuda for Galephar’s capsule formulation of Fenofibrate and non-exclusive rights in certain other countries.

Cipher is obliged to pay Galephar fifty percent (50%) of any (i) distribution fees it receives, (ii) net sales revenue less manufacturing costs and (iii) royalties received, except that prior to issuance of a patent for a product, only 30% of royalties are payable. If Cipher or its affiliates are directly selling to wholesalers, 12% of net sales received by Cipher is payable to Galephar, or 7% prior to issuance of a patent. No payments are required with respect to a sale of a product occurring 20 years after the first sale of the product in the country or, if a patent is obtained, when the patents lapse in that country for the product, whichever is later. Galephar also supplies product to Cipher through commercial supply agreements for each product.

Certain of the Company’s marketed products utilize drug delivery technologies licensed from Galephar:

- *Oral Lidose® Technology*. Galephar’s oral semi-liquid capsule drug delivery technology is a patent-protected drug delivery system. Active ingredients are incorporated in semi-solid or liquid compositions contained in capsules. This delivery system facilitates low manufacturing costs, while delivering super-bioavailability for relatively water-insoluble compounds. CIP-FENOFIBRATE and CIP-ISOTRETINOIN are based on the Lidose drug delivery system.

- *Oral Controlled-Released Bead Technology*. Galephar’s multiple particle-controlled release capsule technology (“MPCRC”), is based on unique extrusion and spheronization methods, and produces beads containing up to 80% active ingredient. Each coated bead is a controlled release system in itself, and the multi-particulate system provides smooth consistent plasma levels over an extended period of time. The system is virtually pH-independent enabling the product to be taken with or without food. MPCRC enables CIP-TRAMADOL ER.

In 2016, Galephar entered into an agreement with another party (the “Galephar Assignee”) to assign certain rights relating to CIP-ISOTRETINOIN in the U.S. market. The Company consented to this agreement, agreeing to remit revenue on the same terms as the Galephar Agreement from licensing and distribution within the U.S. for CIP-ISOTRETINOIN directly to the Galephar Assignee.

On May 11, 2017, the founder, vice president and a shareholder of Galephar was elected to the Company’s board of directors as a non-independent member. As a result, the Company’s relationship with Galephar is considered a related party.

Commercial Products

EPURIS® (CIP-ISOTRETINOIN)

CIP-ISOTRETINOIN is an innovative formulation of the active ingredient isotretinoin, which is used in the treatment of severe acne. CIP-ISOTRETINOIN, which is based on the oral Lidose® technology, has been in-licensed from Galephar. CIP-ISOTRETINOIN provides more consistent absorption under fed and fasted conditions, as compared to existing isotretinoin products. Due to its high lipophilicity, oral absorption of isotretinoin is enhanced when given with a high-fat meal. CIP-ISOTRETINOIN is bioequivalent to Accutane (isotretinoin) capsules when both drugs are taken with a high-fat meal. However, when both drugs are taken under fasted conditions, CIP-ISOTRETINOIN provides 83% greater absorption than Accutane (isotretinoin) capsules.

CIP-ISOTRETINOIN was approved by Health Canada in 2012 under the trade name Epuris and Cipher launched the product in Canada in June 2013. The Company purchases Epuris from Galephar and pays a single-digit royalty to Galephar on net sales of Epuris in Canada. According to IQVIA, the Canadian market for oral isotretinoin was CDN$21.8 million for the 12 months ended September 2018 compared to CDN$20.4 million for the same period in 2017. In December 2018, Epuris had a prescription market share of over 35% in Canada.

OZENOXACIN

In 2015, Cipher in-licensed the Canadian rights to OZANEX™ (ozenoxacin 1%), a topical treatment for adult and paediatric patients with impetigo, from Ferrer International SA ("Ferrer"), a privately-held Spanish pharmaceutical company. Under the terms of the agreement, Ferrer received an upfront payment and is eligible for development milestones and royalties from net product sales in Canada. Ferrer supplies finished product to Cipher.

On May 2, 2017, Cipher received a Notice of Compliance from Health Canada, approving the sale of OZANEX. The Company paid a CDN$0.2 million milestone to Ferrer upon obtaining regulatory approval in Canada. The term of the agreement is for 12 years, which commenced in January 2018 with an automatic renewal for an additional two year period. Under this agreement, all milestones have been paid. Cipher is not responsible for any future development costs, should any be required.

In January 2018, the Company launched OZANEX in Canada. The total Canadian impetigo market size in sales in 2018 was estimated to be CDN$33.0 million, according to IQVIA.

ACTIKERALL®

Actikerall (0.5% fluorouracil and 10% salicylic acid) is indicated for the topical treatment of slightly palpable and/or moderately thick hyperkeratotic actinic keratosis (Grade I/II) of the face, forehead, and balding scalp in immunocompetent adult patients. Actinic keratosis, also known as solar keratosis, is a skin condition caused by exposure to ultraviolet radiation. Cipher acquired the Canadian rights to Actikerall from Almirall S.A. ("Almirall") in May 2015 and the product was launched in Canada in February 2016. Under the terms of the agreement with Almirall, the Company pays a royalty on net sales that includes the transfer price for finished goods. Almirall supplies finished product to Cipher. The agreement is for a term of ten years, which commenced in April 2015 with automatic annual renewals. As of December 2018, Actikerall obtained approximately 10% of the actinic keratosis prescriptions market.

VANIQA®

Vaniqa is a prescription cream clinically proven to reduce the growth of unwanted facial hair in women. Vaniqa cream is an enzyme inhibitor and works by blocking an enzyme necessary for hair to grow. The product was approved by Health Canada in May 2001. Cipher acquired the Canadian rights to Vaniqa from Almirall in May 2015. Under the terms of the agreement with Almirall, the Company pays a royalty on net sales that includes the transfer price for finished goods. Almirall supplies finished product to Cipher. The agreement is for a term of ten years, which commenced in March 2015 with automatic annual renewals. The Company launched Vaniqa in the Canadian market in June 2015. Vaniqa prescriptions have been stable year over year, according to IQVIA.

BETEFLAM® PATCH

In 2012, Cipher obtained the exclusive license and distribution rights in Canada to market the Beteflam Patch (previously named the Betesil Patch), a novel, patent-protected, self-adhesive medicated plaster for the treatment of inflammatory skin conditions such as plaque psoriasis, from Institut Biochemique SA ("IBSA"). The Beteflam Patch is expected to provide distinct advantages over existing treatment options, particularly for patients who suffer from plaque psoriasis in hard to treat areas such as knees and elbows. The efficacy and safety of the product has been established in three successful European phase III trials and one successful phase IV trial conducted by IBSA. The Beteflam Patch is currently marketed in several European countries and was launched in Canada in April 2016.

The Beteflam Patch is based on IBSA's self-adhesive medicated plaster technology. This technology is based on a unique self-adhesive medicated patch providing twenty-four hour delivery of medication to the affected skin area. The self-adhesive plaster is 75cm^2 (7.5 x 10 cm) and is composed of multiple layers, including a transparent plastic film layer, an intermediate tissue layer, an adhesive layer containing the drug and a protective layer (to be removed prior to application). The plaster acts as an occlusive dressing and provides a continuous sustained release of the drug. The plaster can be trimmed to exactly cover the affected area, delivering a uniform concentration of the drug specifically to the affected area, thereby reducing the risk of exposure of the drug outside the treated area. The plaster also acts as a barrier, preventing further damage of the area from trauma or scratching, which may aid in the healing process.

Under the terms of the agreement with IBSA, IBSA supplies the finished product to Cipher and is eligible for certain milestones based on commercial and regulatory targets. The term of the agreement is for ten years, which commenced in August 2012 with an automatic renewal for an additional five year period. On March 1, 2019, the Company and IBSA mutually agreed to terminate this agreement.

BRINAVESS®

Brinavess was approved by Health Canada in March 2017 for the rapid conversion of recent onset atrial fibrillation ("AF") to sinus rhythm in adults, for non-surgery patients with AF of seven days or less and for use in post-cardiac surgery patients with AF of three days or less. The approval from Health Canada included a requirement that Cardiome conduct a post marketing study, which the Company will now satisfy. The proposed study design is a retrospective observational registry conducted in patients receiving Brinavess in Canada. The study will characterize prescription practices and the profile of patients receiving Brinavess and will assess the safety of Brinavess in the Canadian real world setting.

The Company acquired the exclusive Canadian rights to Brinavess as part of the acquisition of the Canadian business portfolio of Cardiome and re-launched Brinavess in October 2018. Correvio supplies finished product to the Company.

AGGRASTAT®

Aggrastat contains tirofiban hydrochloride, which is a reversible GP IIb/IIIa inhibitor (an intravenous anti-platelet drug) for use in patients with Acute Coronary Syndrome. Aggrastat is used to help assist the blood flow to the heart and to prevent chest pain and/or heart attacks (both ST-segment elevation myocardial infarction ("STEMI"), and non-ST-elevation acute myocardial infarction ("NSTE-ACS")). It works by preventing platelets, cells found in the blood, from forming into blood clots within the coronary arteries and obstructing blood flow to the heart muscle (myocardium) which can result in a heart attack. The medicine may also be used in patients whose heart vessels are dilated with a balloon (percutaneous coronary intervention), a procedure used to open up three blocked or obstructed arteries in the heart in order to improve the blood flow to the heart muscle with or without the placement of a coronary stent. Aggrastat is administered intravenously and has been on the market for many years. In July 2017, Health Canada approved a high dose bolus regimen for Aggrastat.

The Company acquired the exclusive Canadian rights to Aggrastat as part of the acquisition of the Canadian business portfolio of Cardiome. Correvio supplies finished product to the Company.

Licensed Products

CIP-ISOTRETINOIN

United States - Absorica®

In 2012, Cipher's U.S. distribution partner Sun Pharmaceutical Industries, Inc. ("Sun") (previously Ranbaxy Laboratories Inc.) launched CIP-ISOTRETINOIN under the trade name Absorica. According to IQVIA, the U.S. isotretinoin prescription market increased by 10% from December 2017 to December 2018.

Absorica is currently protected by five issued patents which are Orange Book listed and expire in September 2021. Galephar was issued a product patent (Patent Number 7,435,427) from the U.S. Patent and Trademark Office in 2008 with a second patent (Patent Number 8,367,102) issued in 2013. A third patent (Patent Number 8,952,064) was issued in February 2015 and the fourth and fifth patents (Patent Numbers 9,078,925 and 9,089,534, respectively) were issued in July 2015. The five patents are formulation-related patents describing the product ingredients.

In September 2013, Sun received a Paragraph IV Certification Notice of filing from Actavis of an abbreviated new drug application ("ANDA") to the FDA for a generic version of Absorica (isotretinoin capsules). A Paragraph IV Certification Notice is filed when the sponsor company of the ANDA believes that its generic product is not infringing on a particular patent and/or that such patent is not valid. A patent infringement lawsuit against Actavis was filed by Sun, Cipher and Galephar in October 2013 and, as a result, the ANDA was subject to a 30-month stay of FDA approval, beginning on the date the notification letter was received. In October 2015, the Company, along with Sun and Galephar, entered into a settlement agreement with Actavis that dismissed the patent litigation suit. As part of the settlement agreement, Cipher, Sun and Galephar entered into a non-exclusive license agreement with Actavis under which Actavis may begin selling its generic version of Absorica in the U.S. on December 27, 2020 (approximately nine months prior to the expiration of the five Absorica patents in September 2021) or earlier under certain circumstances.

Under the terms of the agreement with Sun, the Company receives a royalty percentage in the mid-teens on net sales. Cipher's agreement with Sun is for a period of 10 years from the first commercial sale expiring in November 2022 and Sun has the right to extend the term for additional two year periods.

In July 2018, the Company amended its distribution and supply agreement (the "Sun Amendment") with Sun for Absorica. The Sun Amendment provides Sun with the ability to launch new isotretinoin products prior to the expiration of the agreement in November 2022. The Company will receive a royalty until December 2024 based on U.S. net sales from Sun's isotretinoin product portfolio. In addition, the Absorica New Drug Application ("NDA") will be returned to the Company on expiry of the agreement in November 2022.

On December 19, 2018, the Company received notice of a Paragraph IV Certification in ANDA No. 212333 advising Sun, Sun Pharmaceuticals Industries Ltd. and Galephar that Upsher Smith Laboratories, LLC ("Upsher Smith") has filed an ANDA with the FDA seeking approval to manufacture, use, or sell a generic version of Absorica (10 mg, 20 mg, and 30 mg) prior to the expiration of U.S. Patent Nos. 7,435,427; 8,367,102; 8,952,064; 9,078,925; and 9,089,534. On January 30, 2019, Sun, Cipher and Galephar filed a complaint against Upsher Smith asserting infringement of the five patents. On February 12, 2019, Upsher Smith filed its answer to the complaint.

Rest of World

In 2014, the Company entered into a definitive distribution and supply agreement with Ranbaxy Laboratories Ltd. ("Ranbaxy India"), a Sun Pharma Company, under which Cipher granted Ranbaxy India the exclusive right to market, sell and distribute isotretinoin capsules in Brazil. Ranbaxy India plans to promote the product through a brand dermatology division in Brazil. Under the terms of this agreement, Cipher received an upfront payment and may be eligible for additional pre-commercial milestone payments. Cipher will supply the product and product manufacturing will be fulfilled by Galephar. Ranbaxy India will be responsible for all regulatory-related activities associated with gaining and maintaining regulatory approval of the product in Brazil. The product is not currently approved in Brazil.

In January 2018, the Company entered into a distribution and supply agreement with Italmex Pharma S.A. ("Italmex") granting Italmex for exclusive rights to market, sell and distribute isotretinoin products in Mexico. Under the terms of the agreement with Italmex, Cipher is eligible for regulatory and commercial milestone payments. Cipher will supply the product to Italmex and product manufacturing will be fulfilled by Cipher's partner, Galephar. Italmex will be responsible for all regulatory activities associated with gaining and maintaining regulatory approval of the product in Mexico. The product is currently not approved in Mexico.

LIPOFEN® (CIP-FENOFIBRATE)

Lipofen is a novel formulation of the active ingredient fenofibrate, which is used in the treatment of hyperlipidemia, a cholesterol disorder. Hyperlipidemia is a condition characterized by high levels of low-density lipoprotein ("LDL") cholesterol and/or triglycerides (a type of fat found in the blood). Fenofibrate is known to lower LDL cholesterol and triglycerides and increase high-density lipoproteins ("HDL"), known as "good cholesterol". Cipher's U.S. marketing and distribution partner for Lipofen is Kowa Pharmaceuticals America, Inc. ("Kowa").

Lipofen was launched in the U.S. market in 2007. In 2014, Cipher and Kowa agreed to pre-emptively launch an authorized generic version of Lipofen in advance of the expiration of the product patent in January 2015. Since the beginning of 2015, Kowa has reduced their commercial efforts significantly on the promotion of Lipofen. Prescriptions for Lipofen and the authorized generic were down approximately 30% in 2018 compared to 2017, according to IQVIA.

CONZIP® / DURELA® (CIP-TRAMADOL ER)

CIP-TRAMADOL ER is a novel, extended-release formulation of the active ingredient tramadol, which is used for the management of moderate to moderately severe pain. CIP-TRAMADOL ER uses oral controlled-release beads, a drug delivery technology licensed from Galephar. Patents that expire in 2022 have been issued both in the U.S. and Canada for the product.

United States

The product received FDA approval in 2010. In June 2011, Cipher entered into a distribution and supply agreement with Vertical Pharmaceuticals Inc. ("Vertical"), a U.S. based specialty pharmaceutical company and the product was launched in the U.S. in September 2011 under the trade name ConZip. Under the terms of the agreement with Vertical, the Company receives a mid-teen royalty on net sales. The Company is responsible for product supply and manufacturing, which is fulfilled by Galephar.

According to IQVIA, the U.S. market in 2018 for extended release formulations of tramadol exceeded $36.0 million, which represents approximately 40% of the total tramadol immediate release and extended release prescription market compared to $48.0 million in 2017, which represented approximately 45% of the total tramadol immediate release and extended release prescription market.

An authorized generic version of the product was launched by Vertical in the U.S. market in July 2015.

In 2016, the FDA required a new black box warning for tramadol products on the risks of addiction, abuse, misuse, life-threatening respiratory depression and interactions with central nervous system depressants including alcohol. In 2017, the FDA requested further class/labelling requirements to the black box warning with respect to the pediatric population.

In June 2017, the Company requested a full waiver from a post marketing pediatric study to assess the pharmacokinetics, efficacy and safety of tramadol for the management of moderate to moderately severe chronic pain in pediatric patients aged 2 to 17. In August 2017, the Company received a partial waiver from the FDA that amended the age group required for the study. The new requirement is to study the pharmacokinetics, efficacy and safety of ConZip for the management of pain severe enough to require daily around-the-clock, long-term opioid treatment for which alternative treatment options are inadequate in pediatric patients ages 12 to less than 17 years. The Company is drafting a protocol to submit to the FDA in 2019.

In August 2017, the Company received a warning letter issued by the Office of Prescription Drug Promotion of the FDA relating to the professional detail aids for ConZip. The warning letter was addressed to the Company as the NDA holder. The Company's licensing partner, Vertical holds the exclusive U.S. license to market, sell and distribute ConZip. As the exclusive commercial distributor of ConZip in the U.S., Vertical is responsible for preparing and approving all marketing and promotional materials. Vertical informed Cipher that it took corrective actions and commenced a corrective action communication to healthcare professionals. The FDA has informed Cipher that all issues raised in the warning letter have been addressed.

In September 2017, the Company received a letter from the FDA for a post-approval Risk Evaluation and Mitigation Strategy (“REMS”). This is an industry REMS program and the Company is working with the consortium to review the requirements and the path forward.

Canada

In August 2011, Cipher received Health Canada approval for CIP-TRAMADOL ER and in September 2011, Cipher entered into a distribution and supply agreement with Medical Futures Inc. (“Medical Futures”), a Canadian-based pharmaceutical company, under which Cipher granted Medical Futures the exclusive right to market, sell and distribute CIP-TRAMADOL ER in Canada under the trade name Durela. Medical Futures was subsequently acquired by Tribute Pharmaceuticals Canada Inc. (“Tribute”) and during the same month POZEN Inc. announced the completion of the acquisition of Tribute. Effective, February 5, 2016, the new combined company was named Aralez Pharmaceuticals Inc., which was subsequently acquired by Nuvo Pharmaceuticals Inc. The Company receives a royalty on net sales of Durela in Canada. Cipher will supply the product and product manufacturing will be fulfilled by Galephar.

According to IQVIA, the Canadian market for extended-release tramadol declined to approximately CDN$19.0 million in 2018 compared to CDN$25.0 million in 2017.

Due to the increased focus of opioid abuse in Canada, Health Canada issued an advisement letter on the opioid crisis. In response, in January 2019 the Company submitted to Health Canada a Canadian specific opioid targeted risk management plan to preclude the need for a study. The Company expects the Health Canada review to be completed in the second quarter of 2019.

Rest of World

In April 2013, Cipher entered into a distribution and supply agreement with Tecnofarma International Ltd. (“Tecnofarma”) under which Tecnofarma was granted the exclusive right to market, sell and distribute CIP-TRAMADOL ER in Latin America. Tecnofarma, headquartered in Uruguay, operates in 18 Latin American countries and plans to launch the product in certain territories, including Brazil and Mexico. Under the terms of the agreement, Cipher received an upfront payment and is eligible

for additional milestones based upon regulatory approval in Brazil and Mexico. Cipher will supply product to Tecnofarma and product manufacturing will be fulfilled by Galephar. Tecnofarma launched CIP-TRAMADOL ER in Argentina in May 2016.

In February 2019, the Company was notified by its partner in Brazil that the application for registration with the National Agency of Sanitary Surveillance was rejected. The Company and partner are considering their options to address the concerns raised in the rejection notice.

Product Pipeline

The Company continues to pursue the acquisition or in-licensing of pre-commercial-stage product candidates.

XYDALBA™

On March 22, 2018, Health Canada accepted the NDS for review of Xydalba (dalbavancin hydrochloride) and granted priority review status to the application. The Company received regulatory approval from Health Canada in September 2018 and expects to launch in the first half of 2019.

Xydalba for infusion is a second generation, semi-synthetic lipoglycopeptide, which consists of a lipophilic side-chain added to an enhanced glycopeptide backbone. Xydalba is the first and only 30-minute, one-dose treatment option for acute bacterial skin and skin structure infections (ABSSSI) that delivers a full course of IV therapy. Xydalba can be administered as either a one 1,500 mg dose or as a two-dose regimen of a 1,000 mg dose followed one week later by a 500 mg dose, each administered over 30 minutes. Xydalba demonstrates bactericidal activity in vitro against a range of Gram-positive bacteria, such as Staphylococcus aureus (including methicillin-resistant, also known as MRSA, strains) and Streptococcus pyogenes, as well as certain other Streptococcal species.

The Company acquired a licence for Canadian marketing rights to Xydalba through from the acquisition of the Canadian business portfolio of Cardiome. The license is for a term of 10 years from commercial launch with a one time renewal option of five years. The license includes a royalty on net sales and milestones. Correvio will supply finished product to the Company.

TRULANCE®

On February 27, 2018, the Company acquired the exclusive Canadian rights to develop, market, distribute and sell TRULANCE (plecanatide) from Synergy. TRULANCE is a once-daily tablet approved by the FDA for the treatment of adults with CIC and IBS-C. The Company filed a NDS with Health Canada in the fourth quarter of 2018, which was accepted by Health Canada for review. Under the terms of the licensing agreement, the Company paid an upfront payment of $5.0 million. The transaction also includes a regulatory milestone payment of $0.8 million and royalties on net product sales in Canada.

A-101

On April 5, 2018, the Company acquired the exclusive Canadian rights to distribute and commercialize A-101 from Aclaris. A-101 is an FDA-approved topical product indicated for the treatment of raised SKs, which are commonly occurring non-cancerous skin growths that affect more than nine million Canadian adults and can be an aesthetic skin concern. A-101 was approved by the FDA in December 2017 and is marketed by Aclaris in the U.S. under the tradename Eskata™. A-101 is a proprietary, high-concentration hydrogen peroxide-based topical solution designed for in-office application by a healthcare provider. It is a targeted treatment applied directly to the raised SK using a pen-like applicator. The most common treatment for SKs are surgical procedures such as cryosurgery, which can cause discomfort, cosmetic imperfections, and require wound management. The Company filed an NDS with Health Canada in the fourth quarter of 2018, which was accepted by Health Canada for review. Under the terms of the licensing agreement, Aclaris received an upfront payment of $1.0 million and, upon achievement of certain milestone events, additional regulatory and commercial milestone payments of up to $2.8 million are applicable, as well as royalties from net product sales in Canada.

TREVYENT®

Trevyent is a development stage drug/device combination product that combines SteadyMed Ltd's ("SteadyMed") PatchPump technology with treprostinil, a vasodilatory prostacyclin analogue to treat pulmonary arterial hypertension ("PAH"). PatchPump is a proprietary, disposable, parenteral drug administration platform that is prefilled and preprogrammed at the site of manufacture. PAH is a type of high blood pressure that occurs in the right side of the heart and in the arteries that supply blood to the lungs. PAH worsens over time and is life-threatening because the pressure in a patient's pulmonary arteries rises to dangerously high levels, putting a strain on the heart. There is no cure for PAH, but several medications are available to treat symptoms, such as Remodulin (treprostinil sodium), the market-leading prostacyclin PAH therapy.

In April 2017, SteadyMed completed a successful clinical study of Trevyent. The study enrolled 60 healthy adult volunteers in an in-clinic setting designed to examine the performance of the PatchPump used by Trevyent. The goals of the study were to evaluate the safety and performance functions of the PatchPump delivery system as well as the tolerability of the on-body application of the six products. According to SteadyMed, the results indicated that the PatchPump devices performed as intended in all categories of evaluation, including dose accuracy and precision. In July 2017, SteadyMed submitted a NDA to the FDA for Trevyent in the United States. On August 31, 2017, SteadyMed announced that it received a Refusal to File ("RTF") letter from the FDA relating to the NDA. On September 28, 2017, SteadyMed announced that it had submitted a Type A Meeting Request and Briefing Document to the FDA in response to the RTF. On December 8, 2017, SteadyMed announced that it had received final minutes from the FDA on the work necessary to resubmit its NDA. SteadyMed was subsequently acquired by United Therapeutics Corporation ("United") in April 2018. United expects the NDA re-submission to occur in the first half of 2019.

Cipher acquired a licence for Canadian marketing rights to Trevyent through the acquisition of the Canadian business portfolio of Cardiome. The license is for a term of 10 years from commercial launch. The license includes a royalty on net sales and milestones. Correvio will supply finished product to Cipher.

CF101

On March 23, 2015, Cipher announced the licensing of the Canadian distribution rights to CF101, a novel chemical entity being developed by Can-Fite Biopharma ("Can-Fite") for moderate to severe plaque psoriasis and rheumatoid arthritis ("RA"). The active agent of CF101 is IB-MECA (methyl 1-[N6-(-3-iodobenzyl)-adenin-9-yl]-beta-D-ribofuronamide), that is active by modulating the key signaling proteins such as NF-kB and PI3K, resulting in inhibition of inflammatory cytokine production.

CF101 completed a phase II/III double-blind, placebo-controlled study, which was designed to test the efficacy of CF101 in patients with moderate to severe plaque psoriasis. The study enrolled 326 patients through 17 clinical centers in the U.S., Europe, and Israel. Top-line results from the trial were published by Can-Fite at the end of March 2015. Results from this phase II/III trial and results from the prior phase II trial in psoriasis were both positive, showing that CF101 effectively improved disease symptoms. In addition, at the end of 2013, CF101 completed a phase IIb study for active RA, and Can-Fite has completed the study design for a phase III program. Can-Fite is commencing two phase III programs, one for RA and one for psoriasis. Can-Fite continues to enrol patients into the phase III RA program and has initiated patient enrolment for the psoriasis phase III program. Cipher is not responsible for any of these development costs.

Approximately one million people in Canada have psoriasis, according to Canadian Dermatology Association in 2018. In moderate to severe cases, the most common treatment options are systemic biologic drugs, which are delivered by injection or intravenous infusion and have well-known shortcomings, including increased risk of infection. CF101 is an oral small molecule drug formulated in a tablet and has an excellent human safety profile, demonstrated in more than 1,000 patients.

The timeline to regulatory submissions to Health Canada will be determined by the successful completion of the remaining clinical trial program.

Under the terms of the agreement, Can-Fite received an upfront payment of $1.65 million and is eligible for milestone payments of up to $2.0 million and royalties from product sales in Canada. The agreement provides that Can-Fite will deliver finished product to Cipher.

DTR-001

On May 2, 2016, the Company licensed the worldwide rights to develop, market and sell an investigational tattoo removal cream from Dalhousie University. The product candidate, which is applied topically, has shown encouraging results in pre-clinical testing for the removal or reduction of the appearance of tattoos. The product candidate is currently at the pre-clinical stage of development.

Under the terms of the agreement, an upfront payment of CDN$75,000 was made by Cipher upon execution of the agreement and the agreement contains milestone payments of up to CDN$3.6 million based on future regulatory and commercial sales milestones, as well as royalties on commercial sales.

THE ASTION PORTFOLIO

In February 2015, Cipher announced the acquisition of the worldwide rights to three products from Astion Pharma being Dermadexin, Pruridexin and ASF-1096 (the "Astion Acquisition"). These three products are focused on inflammatory dermatological diseases and are as follows:

ASF-1096

ASF-1096 is a product candidate for the treatment of dermatomyositis. The active agent of ASF-1096 is the R-enantiomer of salbutamol that is thought to exert an anti-inflammatory activity. ASF-1096 contains purified R-salbutamol formulated into a cream.

Cipher has an orphan drug indication in the European Union ("EU") for ASF-1096, a product candidate that the Company believes has promise as a treatment for discoid lupus erythematosus, a highly disfiguring and rare disease with no current cure as well as other potential rare conditions in the European market. In the U.S., this indication does not meet the requirements for orphan drug status. Cipher is reviewing the drug development program and potential indications to support the approval of ASF-1096 in the North American and European markets. In June 2016, Cipher entered into a definitive licensing agreement with Edesa Biotech Inc. ("Edesa"), under which Cipher granted Edesa the exclusive worldwide rights to develop, market and sell ASF-1096 for the treatment of anorectal indications. Under the terms of the agreement, Cipher is eligible to receive clinical, regulatory and commercial milestone payments, along with a royalty on net sales.

Dermadexin and Pruridexin

Dermadexin is a patent-protected topical barrier-repair cream containing the pharmacologically active ingredient P3GCM, which has dual mechanisms of action. Firstly, P3GCM inhibits fatty acid amide hydrolase ("FAAH"), which is induced in dermal inflammation. FAAH breaks down the anti-pruritic and anti-inflammatory dermal endocannabinoids; thus P3GCM gives rise to enhanced dermal endocannabinoid levels which exert anti-inflammatory and anti-itch effects via cannabinoid receptors on peripheral sensory nerve endings and various inflammatory cells. In addition, P3GCM inhibits Nuclear Factor Kappa B (NF-kB) mediated inflammatory gene expression, giving rise to lower dermal levels of inflammation. The product was approved in the EU in 2014 as a Class III medical device for the treatment of seborrheic dermatitis, an inflammatory skin disorder affecting the scalp, face, and torso. Dermadexin SD Cream has been tested in two placebo-controlled, multicenter clinical trials (436 patients) where it displayed a marked and statistically significant effect on the symptoms of facial seborrhoeic dermatitis, with a fast onset of action and an increasing effect over time.

Pruridexin is a patent-protected topical cream for the treatment of chronic pruritis (itching). The active agent of Pruridexin is a formulation of P3CGM. Compared to Dermadexin, Pruridexin is less viscous and is more appropriate for use on larger areas of the body such as extremities and the back. Pruridexin Cream has been tested in two placebo-controlled, multicenter clinical trials (352 patients) and displayed a marked and statistically significant effect on the pruritus, with a fast onset of action and an increasing effect over time. Pruridexin exerts its therapeutic effects via similar mechanisms of action as Dermadexin.

In 2015, Cipher received an Acceptance Review Notification for its 510(k) submissions for both Dermadexin and Pruridexin to the FDA. The notification confirms that the submission contained all the necessary elements and information needed to proceed with the substantive review. The FDA subsequently put the review on hold due to the uncertainty of the functions of the ingredients. The FDA requested that Cipher submit a Request for Designation ("RFD") to the Office of Combination Products to determine whether the products should be considered drugs or devices. In April 2016, Cipher submitted an informal RFD for Dermadexin and received a non-binding regulatory determination that the product, which contained nicotinamide (a new ingredient not listed in the device database), should be reviewed under the jurisdiction of the Center for Drug Evaluation and Research ("CDER"). In July 2017, the Company submitted a Pre-RFD with additional information in support of its position that the product should not be reviewed by CDER. However, the FDA's decision remained the same, specifically that the product is a combination product comprised of two components and should be assigned to CDER.

In 2016, Cipher received Health Canada approvals (via Natural and Non-Prescription Health Products Directorate "NNHPD") for DexiDerm SD Cream and DexiDerm AD Cream (also known as Dermadexin and Pruridexin). DexiDerm CD was approved by the NNHPD in August 2016 and DexiDerm Scalp was approved in November 2016. In Europe, Helioclin Dermatitis SD Cream (also known as Dermadexin) was approved in 2014 and Helioclin Pruritus SD Cream (also known as Pruridexin) was approved in April 2016, as a Class III medical device.

The Company decided not to continue to actively pursue partners or continue support for the related intellectual property of Dermadexin and Pruridexin.

Litigation

From time to time, during the ordinary course of business, the Company may be threatened with, or may be named as, a defendant in various legal proceedings, including lawsuits based upon product liability, wrongful dismissal, personal injury, breach of contract and lost profits or other consequential damage claims.

Selected Annual Information

The consolidated statements of income and comprehensive income and consolidated statements of cash flows for the U.S. segment are presented as discontinued operations, separate from the Company's continuing operations which is comprised of the Canadian segment. Certain prior period financial information on the consolidated statements of income and comprehensive income and the consolidated statements of cash flows have been updated to present the U.S. segment as a discontinued operation and has therefore been excluded from both continuing operations and results for all periods presented in this MD&A and the accompanying consolidated financial statements. This MD&A reflects only the results of continuing operations, unless otherwise noted.

The loss from discontinued operations included in the consolidated statement of income and comprehensive income was $0.7 million for the year ended December 31, 2018 compared to a loss from discontinued operations of $6.3 million for the year ended December 31, 2017.

ADOPTION OF NEW ACCOUNTING STANDARDS

The Company adopted IFRS 9, *Financial Instruments* on January 1, 2018. No adjustment to the comparative period was required. Currently, the Company's financial instruments are cash, accounts receivable, accounts payable and accrued liabilities, other long term liabilities and its credit facility. With respect to its accounts receivable, historically, the Company's credit losses have been negligible as are past due amounts and therefore no adjustments relating to credit losses were required in the current or comparative period. The Company has adopted the simplified approach to accounting for credit losses.

The Company adopted IFRS 15, Revenue from Contracts with Customers on January 1, 2018 using the full retrospective approach resulting in a restatement of the 2017 and 2016 comparative period for licensing revenue.

The following information has been prepared in accordance with IFRS.

(IN MILLIONS OF U.S. DOLLARS EXCEPT FOR PER SHARE AND SHARE AMOUNTS)	**2018**	2017	2016
	$	$	$
		Restated	Restated
Net revenues	**22.7**	40.1	29.5
Total operating expenses	**19.4**	15.6	18.1
Total other expenses	**0.2**	10.4	5.8
Income for the year from continuing operations	**1.2**	10.6	4.0
Loss for the year from discontinued operations	**(0.7)**	(6.3)	(43.4)
Income from continuing operations per share:			
Basic and diluted earnings	**0.04**	0.40	0.15
Loss from discontinued operations per share:			
Basic loss and diluted earnings	**(0.02)**	(0.24)	(1.65)
Total assets	**55.7**	63.0	77.2
Total non-current liabilities	**9.7**	12.7	38.0

The fluctuations in reported results during 2018 resulted primarily from the following factors:

- Net revenues decreased by 43% from a significant decrease in licensing revenue from Absorica;
- The Company incurred transaction and integration costs of $1.2 million relating to the acquisition of the Canadian business portfolio of Cardiome and four in and out-licensing transactions, recorded in operating expenses;
- The Company recorded an intangible asset impairment charge of $1.8 million, recorded in operating expenses.
- Other expenses declined due to the revaluation of the derivative financial instruments, loss on debt extinguishment and higher interest expense in 2017.

For a detailed review of the operating results, see "Review of Operating Results".

Review of Operating Results

REVENUE

(IN THOUSANDS OF U.S. DOLLARS)	**2018**	2017
	$	$
		Restated
Licensing revenue	**15,869**	34,851
Product revenue	**6,880**	5,292
Net revenues	**22,749**	40,143

Total net revenue decreased by $17.4 million or 43% to $22.7 million for year ended December 31, 2018 compared to $40.1 million for the year ended December 31, 2017.

Licensing Revenue

Licensing revenue decreased by $19.0 million or 54% to $15.9 million for the year ended December 31, 2018 compared to $34.9 million for the year ended December 31, 2017.

Licensing revenue from Absorica in the U.S. was $13.1 million for the year ended December 31, 2018, a decrease of $17.0 million or 57% compared to $30.1 million for ended December 31, 2017. The decrease in licensing revenue from Absorica is attributable to a promotional campaign that our partner implemented from March 2017 until November 2017. At the conclusion of the program, market share and prescriptions for Absorica decreased as expected. Absorica's market share, which peaked at 22% during the campaign in 2017, ended at approximately 10% in December 2018.

Licensing revenue from Lipofen and the authorized generic version of Lipofen was $2.3 million for the year ended December 31, 2018, a decrease of $1.5 million compared to revenue of $3.8 million for the year ended December 31, 2017. Licensing revenue from the extended-release tramadol product (ConZip in the U.S. and Durela in Canada) was $0.5 million for the year ended December 31, 2018, a decrease of $0.5 million compared to revenue of $1.0 million for the year ended December 31, 2017.

Product Revenue

Product revenue increased by $1.6 million or 30% to $6.9 million for the year ended December 31, 2018 compared to $5.3 million for the year ended December 31, 2017.

Product revenue from Epuris increased to $5.8 million for the year ended December 31, 2018 compared to $4.7 million for the year ended December 31, 2017. Epuris had a prescription market share of over 33% in Canada for the year ended December 31, 2018 compared to 28% for the year ended December 31, 2017, according to IQVIA.

Product revenue for Ozanex, Beteflam, Actikerall and Vaniqa was $1.1 million, in the aggregate for the year ended December 31, 2018 compared to $0.6 million for the year ended December 31, 2017.

With respect to the remaining brands Aggrastat and Brinavess, there were minimal and no sales for the year ended December 31, 2018, respectively. The Company directed its sales efforts on the re-launch of Brinavess in the fourth quarter of 2018.

OPERATING EXPENSES

(IN THOUSANDS OF U.S. DOLLARS)	**2018**	2017
	$	$
Cost of products sold	**2,312**	1,903
Research and development	**561**	394
Selling, general and administrative	**14,741**	12,782
Impairment of intangible assets	**1,832**	561
Total operating expenses	**19,446**	15,640

Total operating expenses increased by $3.8 million or 24% to $19.4 million for the year ended December 31, 2018 compared to $15.6 million for the year ended December 31, 2017. The increase related primarily to transaction and integration costs of

$1.2 million, and an impairment charge to the Dermadexin and Pruridexin assets of $1.8 million compared to an impairment charge of $0.6 million in 2017.

Cost of Products Sold

Cost of products sold for the year ended December 31, 2018 increased by $0.4 million to $2.3 million compared to $1.9 million for the year ended December 31, 2017. Gross margin increased to 66% in 2018 from 64% in 2017.

Research and Development

Research and development ("R&D") expenses represent the costs directly associated with developing and advancing our pipeline products and the cost of regulatory submissions in Canada. R&D expense was $0.6 million for the year ended December 31, 2018 compared to $0.4 million for year ended December 31, 2017. The increase relates to advancing DTR-001 through the pipeline.

Selling, General and Administrative

Selling, general and administrative ("SG&A") expense was $14.7 million for the year ended December 31, 2018, an increase of $1.9 million or 15% compared to $12.8 million for the year ended December 31, 2017. The increase in SG&A expense for the year ended December 31, 2018 related primarily to transaction and integration costs incurred in connection with the acquisition of the Canadian business portfolio of Cardiome, out-licensing of Isotretinoin and the in-licensing of Trulance, A-101 and MOB-015, regulatory submissions and product launches in 2019.

Also, included in SG&A is amortization of intangible assets of $0.6 million for the year ended December 31, 2018 compared to $0.8 million for the year ended December 31, 2017.

Impairment of Intangible Assets

In Q1 2018, the Company re-assessed the success of its efforts to out license the licensing rights it acquired in connection with the Astion Acquisition in February 2015 and decided not to continue to actively pursue partners for Dermadexin and Pruridexin products in this portfolio. As a result, the Company recorded an impairment charge of $1.8 million representing the carrying value of those assets.

In 2017, the Company completed its assessment of the Melanovus oncology assets acquired in 2014 and decided not to continue with this program. The Company recorded an impairment charge of $0.6 million, representing the carrying value of those assets.

OTHER EXPENSES

(IN THOUSANDS OF U.S. DOLLARS)	**2018**	2017
	$	$
Interest expense	**907**	5,300
Change in fair value of derivative financial instrument	**(530)**	(34)
Loss on debt extinguishment	**-**	5,223
Interest income	**(195)**	(8)
Foreign exchange gain	**(2)**	(66)
Total other expenses	**180**	10,415

Total other expenses were negligible for the year ended December 31, 2018 compared to $10.4 million for the year ended December 31, 2017. In the comparative year, other expenses primarily related to the loss on debt extinguishment and interest expense on the Notes.

Interest Expense

Interest expense decreased by $4.4 million to $0.9 million for year ended December 31, 2018 compared to $5.3 million for the year ended December 31, 2017 due to the refinancing of the Notes. The average interest rate applicable to the credit facility

during the year was approximately 3.99%. In the comparative year the stated interest rate on the Notes that were subsequently fully extinguished in the fourth quarter of 2017 was 10.25%.

Change in Fair Value of Derivative Financial Instrument

The change in fair value of the derivative financial instrument resulted in a gain of $0.5 million for the year ended December 31, 2018 compared to a negligible gain for the year ended December 31, 2017. Fluctuations in the fair value of the derivative financial instrument is primarily due to changes in the Company's share price.

Loss on Debt Extinguishment

In 2017, the loss on the debt extinguishment was the difference between the carrying value of the Notes and the fair value on the date of the partial extinguishment, which includes the prepayment fee of $1.0 million, a borrowing fee of $1.0 million and amendment fee of $0.5 million.

Interest Income

Interest income for the year ended December 31, 2018 increased as a result of improved interest rates received on our cash balances.

Foreign Exchange

The Company experienced a de minimus foreign exchange gain for each of the years ended December 31, 2018 and 2017. The Company is exposed to currency risk through its net assets and certain recurring transactions denominated in Canadian dollars.

INCOME TAXES

Income tax expense is recognized based on domestic statutory income tax rates in the jurisdictions in which the Company operates. Deferred tax assets are recognized to the extent that it is probable that the asset can be recovered. Income tax expense was $1.9 million for the year ended December 31, 2018 compared to income tax expense of $3.5 million for the year ended December 31, 2017. The decrease is attributable to decrease in profitability.

At each balance sheet date, the Company assesses whether the realization of future tax benefits is sufficiently probable to recognize a deferred tax asset. This assessment requires the exercise of judgement, which includes a review of projected taxable income.

As at December 31, 2018, the Company has recognized a deferred tax asset on the balance sheet of $2.2 million. The Company believes that it is probable that future taxable income will be available against which tax losses can be utilized.

INCOME (LOSS) AND INCOME (LOSS) PER SHARE

(IN THOUSANDS OF U.S. DOLLARS)	**2018**	2017
	$	$
		Restated
Income for the year from continuing operations	**1,201**	10,625
Basic and diluted earnings per share from continuing operations	**0.04**	0.40
Loss for the year from discontinued operations	**(658)**	(6,344)
Basic and diluted loss per share from discontinued operations	**(0.02)**	(0.24)
Income and comprehensive income for the year	**543**	4,281
Basic and diluted earnings per share	**0.02**	0.16

Basic earnings (loss) per share is calculated using the weighted average number of shares outstanding during the year. Diluted earnings (loss) per share is calculated taking into account dilutive instruments that are outstanding. For year ended December 31, 2018, the computation of diluted earnings per share approximates the basic earnings per share due to the de minimus impact of dilutive instruments.

Income from continuing operations per share on both a basic and diluted basis for the year ended December 31, 2018 was $0.04 compared to income per share on both a basic and diluted basis of $0.40 for the year ended December 31, 2017.

The weighted average number of Common Shares outstanding for the year ended December 31, 2018 was 26,773,224 (for the year ended December 31, 2017 – 26,572,412).

The dilutive weighted average number of Common Shares outstanding for the year ended December 31, 2018 was 26,997,196 (for the year ended December 31, 2017 – 26,766,098).

ADJUSTED EBITDA

EBITDA is a non-IFRS financial measure. The term EBITDA (earnings before interest, taxes, depreciation and amortization) does not have any standardized meaning under IFRS and therefore may not be comparable to similar measures presented by other companies. Rather, these measures are provided as additional information to complement IFRS measures by providing a further understanding of operations from management's perspective. The Company defines Adjusted EBITDA as earnings before interest expense, income taxes, depreciation of property and equipment, amortization of intangible assets, loss on debt extinguishment, non-cash share-based compensation, changes in fair value of derivative financial instruments, impairment of intangible assets and goodwill and foreign exchange gains and losses from the translation of Canadian cash balances.

The Company considers Adjusted EBITDA as a key metric in assessing business and management performance and considers Adjusted EBITDA to be an important measure of operating performance and cash flow, providing useful information to investors and analysts.

Adjusted EBITDA for the year ended December 31, 2018 was $6.9 million, a decrease of $19.6 million or 74% compared to $26.5 million for the year ended December 31, 2017. The decrease is primarily related to the $17.0 million decrease in revenue from Absorica in fiscal 2018 compared to fiscal 2017.

The following is a summary of how EBITDA and Adjusted EBITDA are calculated:

(IN THOUSANDS OF U.S. DOLLARS)	**2018**	2017
	$	$
		Restated
Income from continuing operations	**1,201**	10,625
Add back:		
Depreciation and amortization	**828**	967
Interest expense, net	**712**	5,292
Income taxes	**1,922**	3,463
EBITDA	**4,663**	20,347
Change in fair value of derivative financial instrument	**(530)**	(34)
Loss from the translation of Canadian cash balances	**87**	35
Loss on debt extinguishment	**-**	5,223
Impairment of intangible assets	**1,832**	561
Share-based compensation	**802**	338
Adjusted EBITDA	**6,854**	26,470

(1) Amounts have been restated upon the full retrospective adoption of IFRS 15, *Revenue from Contracts with Customers.*

Liquidity and Capital Resources

(IN THOUSANDS OF U.S. DOLLARS)	**2018**	2017
	$	$
Income from continuing operations	**1,201**	10,625
Cash provided by operating activities	**11,284**	19,930
Cash provided by (used in) investing activities	**(24,483)**	9,137
Cash used in financing activities	**(1,407)**	(28,137)
Cash used in discontinued operations	**(3,191)**	(7,140)
Net change in cash	**(17,797)**	(6,210)
Impact of foreign exchange on cash	**(87)**	(35)
Cash, beginning of year	**28,241**	34,486
Cash, end of year	**10,357**	28,241

Cash

As at December 31, 2018, the Company had cash of $10.4 million compared to $28.2 million as at December 31, 2017.

Operating Activities

Cash provided by operating activities was $9.6 million for the year ended December 31, 2018 compared to $19.9 million for the year ended December 31, 2017. The change in cash provided by operating activities reflects a recovery of $3.1 million of working capital compared to an investment of $6.3 million in working capital in the comparative prior year. Cash provided by operations, excluding working capital was $6.5 million for the year ended December 31, 2018 compared to $26.2 million for the year ended December 31, 2017. The decrease in cash provided by operating activities reflects a reduction in net income from the continuing operations.

Investing Activities

Cash used in investing activities for the year ended December 31, 2018 is related to the acquisition of the Trulance license, A-101 license, MOB-015 license and the acquisition of the Canadian business portfolio of Cardiome acquisition (see “Significant Transactions” – 2018).

Cash provided by investing activities for the year ended December 31, 2018 is primarily related to the receipt of $1.7 million in cash, which represents the holdback in the sale of its U.S. Assets. Cash provided by investing activities for the year ended December 31, 2017 was primarily related to the sale of the U.S. Assets. The Company received $9.3 million in cash during such period, which is comprised of $7.6 million received on closing, $0.7 million from the achievement of a milestone and a working capital adjustment of $1.0 million

Financing Activities

Cash used in financing activities was $1.4 million for the year ended December 31, 2018 compared to $28.1 million for the year ended December 31, 2017. The significant decrease relates to the extinguishment of the Notes in the amount of $44.5 million, including early repayment penalties and fees of $2.5 million. The Company entered into a credit agreement providing for a credit facility of $20.0 million, of which $19.6 million was received net of transaction costs offset by a principal payment of $1.7 million.

The Company entered into an amendment to the credit agreement during the year ended December 31, 2018 and drew an additional $5.0 million. This was offset by principal payments of $5.7 million on the credit facility.

Future cash requirements will depend on a number of factors, including investments in product launches, expenditures on R&D for product candidates, costs associated with maintaining regulatory approvals, the timing of payments received or made under licensing or other collaborative agreements, the costs involved in preparing, filing, prosecuting, maintaining, defending and enforcing patent claims and other intellectual property rights, defending against patent infringement claims, the acquisition of licenses for new products or technologies, the status of competitive products and the success of the Company in developing and maintaining markets for its products.

As at December 31, 2018, the Company has finance lease contractual obligations on its fleet and operating leases for the Company's two office locations. The fleet leases expire between September 2020 and November 2022. The lease for the Company's previous Canadian premises located in Mississauga, Ontario (the "Previous Office") expired at the end of December 2018 and the lease for the Company's U.S. premises expires in January 2023.

On July 19, 2018, the Company entered into an office lease agreement for its corporate operations to replace the Previous Office. The new office is located in Oakville, Ontario and is the Company's new registered address. The term of the lease is 10 years and three months, commencing on January 1, 2019. The total undiscounted commitment for the lease term is CDN$4.3 million.

The following table outlines the Company's undiscounted contractual obligations as at December 31, 2018.

Description	Less than one year	Years two and three	Beyond three years	Total
	$	$	$	$
Accounts payable and accrued liabilities	12,055	-	-	12,055
Finance lease obligations	91	117	26	234
Credit facility	8,069	9,668	-	17,737
Total	20,215	9,785	26	30,026

Financial Instruments

At December 31, 2018, the Company's financial instruments consisted of cash, accounts receivable, accounts payable and accrued liabilities, the credit facility and a derivative financial instrument. The derivative financial instrument is measured at fair value with any changes recognized through the consolidated statements of income and comprehensive income and is classified as Level 2. Cash, accounts receivable, accounts payable and accrued liabilities and the credit facility are measured at amortized cost and their fair values approximate carrying values.

At December 31, 2018, the carrying value of the credit facility of $17.6 million, which approximates the fair value. The fair value is based on cash flows discounted using a rate based on the borrowing rate.

The Company's financial instruments are exposed to certain financial risks, including credit risk, liquidity risk, market risk, interest rate risk and capital management risk.

Risk Management

In the normal course of business, the Company is exposed to a number of financial risks that can affect its operating performance. These risks are: credit risk, liquidity risk, market risk, interest rate risk and capital management risk. The Company's overall risk management program and business practices seek to minimize any potential adverse effects on the Company's financial performance.

Credit Risk

Credit risk is the risk of a financial loss to the Company if a customer or counterparty to a financial instrument fails to meet its contractual obligation. Financial instruments that potentially expose the Company to significant concentration of credit risk consist of cash and accounts receivable. The Company's investment policies are designed to mitigate the possibility of deterioration of principal, enhance the Company's ability to meet its liquidity needs and provide high returns within those parameters. Cash is on deposit with Canadian chartered banks. Management monitors the collectability of accounts receivable and other receivables and estimates an allowance for doubtful accounts.

The Company has concentration risk, as approximately 92% of total revenue came from four customers and approximately 88% of total accounts receivable is due from two customers.

Liquidity Risk

Liquidity risk is the risk that the Company will encounter difficulties in meeting its financial liability obligations as they become due. The Company has a planning and budgeting process in place to help determine the funds required to support the Company's normal operating requirements on an ongoing basis.

The Company has financed its cash requirements primarily through operations and its credit facility. The Company controls liquidity risk through management of working capital, cash flows and the availability and sourcing of financing.

The Company has financial covenants in its credit facility that are based on predefined trailing adjusted earnings before interest, taxes, depreciation and amortization ("EBITDA") formula. The Company's adjusted EBITDA is subject to significant fluctuations based on revenue from its licensing business. A decline in licensing revenue could cause the Company to breach on one or more covenants.

The Company anticipates that its current cash, together with the cash flow that is generated from operations will be sufficient to execute its current business plan for 2019 and meet its debt obligations.

Market Risk

Currency risk – The Company is exposed to currency risk related to the fluctuation of foreign exchange rates. The Company operates primarily in U.S. dollars. The Company is exposed to currency risk through its net assets denominated in Canadian dollars ("CDN$"). A change of 10 basis points in the U.S./CDN exchange rate on December 31, 2018 balance would have had a $0.2 million impact on income and comprehensive income. The following is a summary of the net financial assets denominated in Canadian dollars as of December 31, 2018:

	CDN$
Cash	1,798
Accounts receivable	1,243
Accounts payable and accrued liabilities	(5,178)
Finance lease obligations	(289)
Net financial liabilities	(2,426)

Interest Rate Risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The credit facility bears interest that is pegged to LIBOR and as such is subject to interest rate cash flow risk resulting from market fluctuations in interest rates. A change of 100 basis points in the LIBOR would increase the interest expense by $199.

Capital Risk Management

The Company's managed capital is comprised of cash, the credit facility and shareholders' equity. The Company's objective when managing its capital structure is to safeguard its ability to continue as a going concern in order to provide returns for shareholders and finance strategic growth plans and financial obligations as they become due. In order to maintain or adjust its capital structure, the Company may issue new Common Shares from time to time. The Company relies on cash on hand, cash flows from operations and debt financing to finance growth initiatives.

Outstanding Share Data

The Company is authorized to issue an unlimited number of preference shares, issuable in series, and an unlimited number of voting Common Shares. At December 31, 2018, the Company had 26,820,483 Common Shares issued and outstanding compared to 26,721,114 at December 31, 2017. Subsequent to year-end, 17,088 Common Shares were issued under the employee and director share purchase plan, bringing the total number of Common Shares issued and outstanding to 26,837,571 as of the date of this MD&A.

A total of 585,209 stock options were granted during the year with a weighted average exercise price of CDN$3.34. As at December 31, 2018, there were 1,086,363 options outstanding of which 192,262 have vested.

Off-Balance Sheet Arrangements

The Company has no off-balance sheet arrangements other than operating leases for its office facilities.

Selected Quarterly Information

The following amounts are derived from unaudited financial information prepared in accordance with IFRS.

(IN MILLIONS OF U.S. DOLLARS EXCEPT FOR PER SHARE AMOUNTS)	**Dec 31, 2018**	Sept 30, 2018	June 30, 2018	Mar 31, 2018
	$	$	$	$
Net revenue	**6.4**	4.8	7.0	4.6
Income (loss) and comprehensive income (loss) for the period	**(0.6)**	0.7	2.1	(1.0)
Basic income (loss) per Common Share	**(0.02)**	0.03	0.07	(0.04)
Diluted income (loss) per Common Share	**(0.02)**	0.03	0.07	(0.04)

(IN MILLIONS OF U.S. DOLLARS EXCEPT FOR PER SHARE AMOUNTS)	Dec 31, 2017	Sept 30, 2017	June 30, 2017	Mar 31, 2017
	$	$	$	$
Net revenue [(1)]	12.1	10.0	9.9	8.1
Income (loss) and comprehensive income (loss) for the period	3.9	3.9	4.4	(1.6)
Basic income (loss) per Common Share [(1)]	0.14	0.15	0.16	(0.06)
Diluted income (loss) per Common Share [(1)]	0.14	0.15	0.16	(0.06)

(1) Amounts have been restated upon the full retrospective adoption of IFRS 15*, Revenue from Contracts with Customers.*

Fourth Quarter Results

(IN THOUSANDS OF U.S. DOLLARS)	**Three months ended December 31, 2018**	Three months ended December 31, 2017
	$	$
		Restated
Licensing revenue	**4,612**	10,614
Product revenue	**1,780**	1,513
Net revenue	**6,392**	12,127
Cost of products sold	**689**	556
Research and development	**147**	108
Selling, general and administrative	**4,963**	3,590
Total operating expenses	**5,799**	4,254
Interest expense	**270**	2,593
Change in fair value of derivative financial instrument	**(110)**	54
Interest income	**(43)**	(3)
Foreign exchange loss	**16**	27
Total other expenses	**133**	2,671
Income before income taxes from continuing operations	**460**	5,202
Income taxes	**961**	1,278
Income (loss) and comprehensive income (loss) from continuing operations	**(501)**	3,924
Loss and comprehensive loss from discontinued operations	**(584)**	(130)
Income (loss) and comprehensive income (loss) for the period	**(1,085)**	3,794

Revenue

Net revenue decreased to $6.4 million for the three months ended December 31, 2018, a decrease of $5.7 million or 47% compared to $12.1 million for the three months ended December 31, 2017.

Licensing revenue decreased by $6.0 million or 57% to $4.7 million for the three months ended December 31, 2018 compared to $10.6 million for the three months ended December 31, 2017.

Licensing revenue from Absorica in the U.S. was $3.7 million for the three months ended December 31, 2018, a decrease of $5.7 million or 60% compared to $9.4 million for the three months ended December 31, 2017. The decrease in licensing revenue from Absorica is primarily attributable to a promotional campaign that was revised in the fourth quarter of 2017. Licensing revenue from Lipofen and the authorized generic version of Lipofen was $0.7 million for the three months ended December 31, 2018, a decrease of $0.2 million compared to revenue of $0.9 million for the three months ended December 31, 2017. Licensing revenue from the extended-release tramadol product (ConZip in the U.S. and Durela in Canada) was $0.1 million for the three months ended December 31, 2018 compared to revenue of $0.4 million for the three months ended December 31, 2017.

Product revenue increased by $0.3 million or 18% to $1.8 million for the three months ended December 31, 2018 compared to $1.5 million for the three months ended December 31, 2017.

Product revenue from Epuris increased to $1.5 million for the three months ended December 31, 2018 compared to $1.3 million for the three months ended December 31, 2017. According to IQVIA, Epuris had a prescription market share of over 35% in Canada for the three months ended December 31, 2018 compared to 28% for the three months ended December 31, 2017.

Product revenue for Ozanex, Beteflam, Actikerall and Vaniqa was $0.3 million, in the aggregate, for the three months ended December 31, 2018 compared to $0.2 million for the three months ended December 31, 2017. There were no sales in the quarter for the remaining brands, Aggrastat and Brinavess.

Operating Expenses

Total operating expenses for the three months ended December 31, 2018 were $5.8 million, an increase of $1.5 million compared to $4.3 million for the three months ended December 31, 2017. The increase relates to costs associated with launching a new product in the fourth quarter of 2018, regulatory submissions and product launches in 2019.

Accounting Standards Issued but not yet Adopted

IFRS 16, *Leases*: On January 13, 2016, the IASB published a new standard, IFRS 16. The new standard will eliminate the distinction between operating and finance leases and will bring most leases onto the consolidated statements of financial position for lessees. This standard is effective for annual reporting periods beginning on or after January 1, 2019. The Company intends to adopt IFRS 16 in its consolidated financial statements for the annual period beginning January 1, 2019. The Company is analyzing the new standard to determine its impact on the Company's consolidated statements of financial position and consolidated statements of income and comprehensive income. The Company expects to adopt IFRS 16 using the modified retrospective transition method. Further, the Company currently expects to apply the following practical expedients: (i) grandfather the assessment of which transactions are leases; (ii) recognition exemption of short-term leases; and (iii) recognition exemption leases of low-value items.

International Financial Reporting Interpretations Committee (IFRIC), Uncertainty over Income Tax Treatments (IFRIC 23): In June 2017, the IASB issued IFRIC 23, Uncertainty over Income Tax Treatments, with a mandatory effective date of January 1, 2019. The interpretations provide guidance on how to value uncertain income tax positions based on the probability of whether the relevant tax authorities will accept the Company's tax treatments. A company is to assume that a taxation authority with the right to examine any amounts reported to it will examine those amounts and will have full knowledge of all relevant information when doing so. IFRIC 23 is to be applied by recognizing the cumulative effect of initially applying these guidelines in opening retained earnings without adjusting comparative information. The Company has assessed that there will be no financial statement impact upon adoption on January 1, 2019.

Other accounting standards or amendments to existing accounting standards that have been issued, but have future effective dates, are either not applicable or are not expected to have a significant impact on the Company's consolidated financial statements.

CRITICAL ACCOUNTING ESTIMATES AND JUDGMENTS

The Company makes estimates and judgments concerning the future that will, by definition, seldom equal actual results. The following are the critical estimates and judgments applied by management that most significantly affect the Company's consolidated financial statements. The critical estimates and judgments that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below.

i) Returns: The provision for returns is a complex estimate used in the recognition of revenue. The Company has a returns policy that allows wholesalers to return product within a specified period prior to and subsequent to the expiration date. Provisions for returns are recognized in the period in which the underlying sales are recognized, as a reduction of product sales revenue. The Company estimates provisions for returns based upon historical experience, representing management's best estimate. While such experience has allowed for reasonable estimations in the past, history may not always be an accurate indicator of future returns. The Company continually monitors provisions for returns and makes adjustments when it believes that actual product returns may differ from established reserves.

ii) Deferred income taxes: Management uses estimates when determining deferred income assets. These estimates are used to determine the recoverability of non capital tax loss carry forward amounts, research and development expenditures and investment tax credits. Significant judgment is required to determine the probable future cash flows in order to recognize the deferred tax asset. Changes in market conditions, changes in tax legislation, patent challenges and other factors, including the approval or launch of generic versions of any of the Company's products, could adversely affect the ongoing value of deferred tax assets. The carrying amount of deferred income tax assets is reassessed at each reporting period and reduced to the extent that it is no longer probable that sufficient taxable income will be available to utilize all or part of the deferred income tax assets. Unrecognized deferred income tax assets are reassessed at each reporting period and are recognized to the extent that it is probable that there will be sufficient taxable income for the asset to be recovered.

iii) Share-based compensation: The option pricing model used to determine the fair value of share-based payments requires various estimates relating to volatility, interest rates, dividend yields and expected life of the options granted. Fair value inputs are subject to market factors as well as internal estimates. The Company considers historic trends together with any new information to determine the best estimate of fair value at the date of grant. Separate from the fair value calculation, the Company is required to estimate the expected forfeiture rate of equity-settled share-based payments.

iv) Estimated useful lives of intangible assets: Management estimates the useful lives of intangible assets based on the period during which the assets are expected to be available for use and also estimates their recoverability to assess if there has been an impairment. The amounts and timing of recorded expenses for amortization and impairments of intangible assets for any period are affected by these estimates. The estimates are reviewed at least annually and are updated if expectations change as a result of technical or commercial obsolescence, generic threats and legal or other limits to use. It is possible that changes in these factors may cause significant changes in the estimated useful lives of the Company's intangible assets in the future.

v) Impairment of non-financial assets: The Company reviews indefinite-lived, not ready for use and amortized non-financial assets for impairment either annually or whenever events or changes in circumstances indicate that the carrying amount of the assets may be impaired. If the recoverable amount of the respective non-financial asset is less than its carrying amount, it is considered to be impaired. In the process of measuring the recoverable amount, management makes assumptions about future events and circumstances. The actual results may vary and may cause significant adjustments.

vi) Accounting for business combinations: The Company assesses whether an acquisition should be accounted for as an asset acquisition or a business combination under IFRS 3. This assessment requires management to make judgements on whether the assets acquired, and liabilities assumed constitute a business as defined in IFRS 3 and if the integrated set of activities, including inputs, processes acquired, is capable of being conducted and managed as a business and the Company obtains control of the business. The Company's acquisition of Cardiome was accounted for as a business combination (Note 7) and all other acquisitions (Note 11) were accounted for as asset acquisitions.

vii) Functional currency: Management uses judgment when determining its functional currency. This determination includes an assessment of the indicators as prescribed in IAS 21, *The Effects of Changes on Foreign Exchange Rates* ("IAS 21"). However, applying the factors in IAS 21 does not always result in a clear indication of functional

currency. Where IAS 21 factors indicate differing functional currencies, management uses judgment in the ultimate determination of the functional currency.

Disclosure Controls and Procedures

Cipher's management is responsible for establishing and maintaining disclosure controls and procedures to ensure that information required to be disclosed to satisfy the Company's continuous disclosure obligations is recorded, processed, summarized and reported as required by applicable Canadian securities legislation. Management has carried out an evaluation of the effectiveness as of December 31, 2018 of the design and operation of the disclosure controls and procedures, as defined in *National Instrument 52-109, Certification of Disclosure in Issuers' Annual and Interim Filings* ("NI 52-109"), under the supervision and with the participation of the Chief Executive Officer (the 'CEO") and the Chief Financial Officer (the "CFO"). Based on this evaluation, the CEO and the CFO concluded that the disclosure controls and procedures are effective in recording, processing, summarizing and reporting, on a timely basis, information required to be disclosed by the Company to satisfy its continuous disclosure obligations and are effective in ensuring that information required to be disclosed in the reports that the Company files is accumulated and communicated to management as appropriate to allow timely decisions regarding required disclosure. The Company's board of directors has reviewed and approved the Company's policy regarding corporate Disclosure Controls and Procedures.

Based on that evaluation, the Company's CEO and CFO has concluded that the Company's disclosure controls and procedures have been designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements for external purposes in accordance with IFRS as at December 31, 2018.

Cipher's management is responsible for designing and implementing internal controls over financial reporting to provide reasonable assurance regarding the reliability of the Company's reporting and the preparation of consolidated financial statements for external purposes in accordance with IFRS. As required under NI 52-109, the Company, under the supervision and with the participation of the CEO and the CFO, has carried out a review of its internal controls over financial reporting.

Based on this evaluation, the Company's CEO and CFO concluded that the Company has designed and implemented such internal controls over financial reporting so as to provide reasonable assurance regarding the reliability of the Company's reporting and the preparation of consolidated financial statements for external purposes during the year ended December 31, 2018 that have materially affected, or are reasonably likely to materially affect, its internal control over financial reporting. This assessment is performed in accordance with the criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO").

Changes in Internal Controls Over Financial Reporting

There have been no changes in the Company's internal control over financial reporting during the year ended December 31, 2018 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

The design of any system of controls and procedures is based in part upon certain assumptions about the likelihood of certain events. There can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions, regardless of how remote.

Risk Factors

An investment in the securities of the Company is speculative and involves a high degree of risk including, but not limited to, the risk factors discussed in this document. Before making an investment decision, investors should carefully consider these risk factors. If any of the factors identified as risks actually occur, there could be a material adverse effect on the Company's business, financial condition and results of operations. However, the risks described below are not the only ones the Company faces. Additional risks not currently known to the Company, or those that it currently believes to be immaterial, may also harm the Company's business.

Risks Related to Cipher and its Business Operations

Our success depends, in large measure, on our ability to enter into in-licensing, development, manufacturing and marketing and distribution agreements with other pharmaceutical companies and keep such agreements in effect.

Currently, a significant portion of our marketed product pipeline is in-licensed from Galephar. If Cipher breaches the underlying agreement, Galephar could terminate the agreement in its entirety or with respect to any particular product. Additionally, the Company works with other partners in the specialty pharmaceutical industry.

Factors that may affect the success of our collaborative efforts with partners (including Galephar) include, but are not limited to, the following:

- our partners may be pursuing alternative technologies or developing alternative products, either on their own or in collaboration with others, that may be competitive with the products as to which they are collaborating with us, which could affect their commitment to our product development efforts;

- our partners may not fulfill their contractual obligations and not be able to adequately supply products for us in commercial quantities, which would adversely affect revenues;

- reductions in marketing or sales efforts or a discontinuation of marketing or sales of our products by our commercial partners may reduce future revenues, which will be based on a percentage of net sales by these partners;

- our partners may terminate their collaborations with the Company, which could make it difficult for us to attract new partners or adversely affect how Cipher is perceived in the business and financial communities; and,

- our partners are responsible for complying with all government legislation and regulations related to selling the Company's products in their respective territories. If any of the Company's partners do not comply, this could have a material adverse impact on the cash flows of the Company.

While the Company attempts to minimize risk by maintaining strong relationships with its partners, the development, marketing and commercialization of pharmaceutical products are processes that require large investments and can take years to complete. Projects can be abandoned along the way or regulatory authorities can refuse to approve new products.

Our current revenues are highly dependent on a limited number of products.

Our current licensing revenue is highly dependent on CIP-Isotretinoin, CIP-Fenofibrate and CIP-Tramadol. Our current product sales revenue is highly dependent on Epuris. Each of these products faces competition and the ability to grow the market and our market share may be limited.

Our revenue is dependent on protection from patents that will expire.

Cipher has and may in the future acquire rights to products that have patent protection, such as Absorica. This patent protection will eventually expire and, in such situations, in order to continue to obtain commercial benefits from these products, Cipher will rely on product manufacturing trade secrets, know-how and related non-patent intellectual property. The effect of this patent expiration depends, among other things, upon the nature of the market and the position of these products in the market from time to time, the growth of the market, the complexities and economics of manufacture of a competitive product and regulatory approval requirements of generic drug laws. In the event that competition develops from generic products, this competition could have a material adverse effect on Cipher's business, financial condition and operating results. The entrance into the market of a generic pharmaceutical product may erode the branded product's market share which may have a material adverse effect on Cipher's business, financial condition and results of operations.

If in the future Cipher acquires or in-licenses technologies or product candidates, it may incur various costs, may have integration difficulties and may experience other risks that could harm the business and results of operations.

Any product candidate or technologies Cipher in-licenses or acquires will likely require additional development efforts prior to commercial sale, approval by the FDA, Health Canada and/or applicable foreign regulatory authorities. All product candidates are prone to risks of failure inherent in pharmaceutical product development, including the possibility that the product candidate, or product developed based on in-licensed technology, will not be shown to be sufficiently safe and effective, or otherwise meet the necessary requirements for approval by regulatory authorities. If intellectual property related to product candidates or technologies in-licensed is not adequate, Cipher may not be able to commercialize the affected products, even after expending resources on their development. In addition, the Company may not be able to manufacture economically or successfully commercialize any product candidate that is develop based on acquired or in-licensed technology that is granted regulatory approval, and such products may not gain wide acceptance or be competitive in the marketplace. Moreover, integrating any newly acquired or in-licensed product candidates could be expensive and time-consuming. If Cipher cannot effectively manage these aspects of the business strategy, the business may not succeed.

Cipher relies on third parties for the marketing of certain products.

Currently, our out-licensed products are marketed by third parties by way of license arrangements. Even if acceptable and timely marketing arrangements are available, the products developed may not be accepted in the marketplace and, even if such products are initially accepted, sales may thereafter decline.

Additionally, our distribution partners may make important marketing and other commercialization decisions with respect to products they develop without our input or may not perform in the manner expected. As a result, many of the variables that may affect the Company's revenues, cash flows and net income may not be exclusively within its control. The termination of any such contracts or services with such third parties could also have a material adverse effect on our business, financial condition and results of operations.

The product approval process is highly unpredictable and may take longer than expected.

Cipher does seek product approvals in foreign jurisdictions and in Canada for a number of products as part of its growth strategy. Approvals may be refused or delayed for a number of reasons, including the requirement for additional clinical and non-clinical studies or patent infringement challenges by patent holders. Challenges of this type are not uncommon and may delay regulatory approvals.

The timing of completion of clinical trials, anticipated regulatory approvals, pricing approvals, obtaining reimbursement codes or the timing of product launch may vary due to factors such as delays or setbacks in the conducting of our clinical trials, regulatory approvals or in the manufacturing and marketing of an approved product.

We may experience numerous unforeseen events that could delay or prevent our ability to receive regulatory approval, including:

- regulatory requests for additional analyses, reports, data, non-clinical studies, and clinical trials;
- clinical trials or non-clinical studies could produce negative or inconclusive results, statistically non-significant results, or regulatory authorities may disagree with our interpretation of the results or the design or conduct of our studies;
- clinical trials or non-clinical studies may reveal unacceptable adverse events or side effects;
- clinical trials may enroll slower than anticipated, may not be completed on schedule, or at all;
- regulators, Institutional Review Boards, or Ethics Committees may not authorize commencement of a clinical trial the continuation of a clinical trial, or amendment of a clinical trial on a timely basis, or at all;
- the applicable regulatory authorities may not accept foreign clinical trial data;
- the Company may elect to suspend or terminate clinical trials due a potential health risk;
- the supply or quality of product necessary to conduct clinical trials of the product candidates may be insufficient or inadequate;
- our clinical or non-clinical studies may not be conducted in accordance with the applicable regulatory requirements;
- regulatory authorities may determine that our product candidates are combination products, requiring additional studies, or that Cipher complies with additional regulatory requirements;
- Cipher may not be able to demonstrate that a product candidate's clinical and other benefits outweigh its safety risks; and
- there may be changes in governmental regulations or guidelines that render our data insufficient for approval.

If Cipher does not meet its timelines within the projected timeframe, our business, financial condition and results of operations could be materially adversely affected. Also, a delay in the launch of a product could negatively impact overall revenues and profitability relating to a product, particularly because the lifespan of our products is expected to be considerably shorter than the average lifespan of new chemical entities.

We have no experience manufacturing products and rely, and intend to rely, on third parties to manufacture our products. The development and commercialization of our products could be stopped or delayed if any such third party fails to provide us with sufficient quantities of product or fails to do so at acceptable quality levels or prices or fails to maintain or achieve satisfactory regulatory compliance.

Cipher relies on direct contracts with third-party contract manufacturers or our partners who manage their contract manufacturers. The facilities used by our third-party contract manufacturers may undergo pre-approval inspections by the applicable regulatory authorities, including the FDA, after submitting our NDA to the FDA, and must be able to demonstrate readiness for commercial marketing and conformance with FDA cGMP regulations and related requirements of other applicable regulatory authorities.

Third-party manufacturers may not perform as agreed, may be unable to comply with FDA cGMP regulations, applicable guidelines, state and foreign regulatory requirements or may terminate their agreements with us. If any third-party manufacturers cannot successfully manufacture material that conforms to our specifications and the applicable regulatory authorities' strict regulatory requirements, or undergo successful governmental regulatory inspection, our business will be adversely affected. We have no direct day-to-day control over a third-party manufacturers' ability to maintain adequate quality control, quality assurance and qualified personnel. If third-party manufacturers are unable to satisfy the regulatory requirements for the manufacture of our products, or if our suppliers or third-party manufacturers decide they no longer want to manufacture our products, the Company or our licensing partners may need to find alternative manufacturing facilities. The number of third-party manufacturers with the necessary manufacturing and regulatory expertise and facilities is limited, and it could be expensive and take a significant amount of time to arrange for alternative suppliers, which could have a material adverse effect on business, financial condition and results of operations. Changes in the manufacturing site of our product will require prior FDA or Health Canada approval before the products may be marketed in the U.S, or Canada, respectively. We might be unable to identify manufacturers for long-term commercial supply on acceptable terms or at all.

Manufacturers are subject to ongoing periodic announced and unannounced inspections by the FDA and other governmental authorities to ensure compliance with government regulations. If the FDA or other regulatory authority has any concerns following an inspection of these manufacturing facilities, the facility may be ordered to cease operations until such issues are resolved, which could have a material adverse effect on the Company's business, financial condition and operating results. We and our products or product candidates may also be subject to regulatory actions. Manufacturing facilities and companies that import products to the U.S. may further be subject to import detention if inspections identify compliance concerns.

Manufacturers of pharmaceutical products often encounter difficulties in production, particularly in scaling up and validating initial production. These problems include difficulties with production costs and yields, quality control, including stability of the product, quality assurance testing, operator error, shortages of qualified personnel, as well as compliance with strictly enforced U.S. federal, state, Canadian and foreign regulations. Furthermore, if microbial, viral or other contaminations are discovered in our products or in the manufacturing facilities in which our products are made, such manufacturing facilities may need to be closed for an extended period of time to investigate and remedy the contamination. We cannot be assured that any stability or other issues relating to the manufacture of any of our products will not occur in the future. Additionally, contract manufacturers may experience manufacturing difficulties due to resource constraints or as a result of labor disputes or unstable political environments. If contract manufacturers, component fabricators or secondary service providers were to encounter any of these difficulties, or otherwise fail to comply with their contractual obligations, our ability to provide any product candidates to patients in clinical trials would be jeopardized. Any delay or interruption in the supply of clinical trial supplies could delay the completion of clinical trials, increase the costs associated with maintaining clinical trial programs and, depending upon the period of delay, require us to commence new clinical trials at additional expense or terminate clinical trials completely. Following product approval or clearance, any delay or interruption in supply could also impact our commercial success.

If the Company changes the source or location of supply or modify the manufacturing process, regulatory authorities may require Cipher to provide them with notification of the change, obtain approval for the change, or demonstrate that the product produced by the new source or from the modified process is equivalent to the product used in any clinical trials that were conducted. If Cipher is unable to meet the regulatory authorities' requirements, it will be unable to manufacture products from the new source or location of supply or use the modified process.

Any adverse developments affecting commercial manufacturing of our products may result in shipment delays, inventory shortages, lot failures, product withdrawals or recalls, enforcement actions, import alerts, import detentions, or other interruptions in the supply of our products or product candidates. We may also have to take inventory write-offs and incur other charges and expenses for products or product candidates that fail to meet specifications, undertake costly remediation efforts or seek more costly manufacturing alternatives. Accordingly, failures or difficulties faced at any level of our supply chain could materially adversely affect our business and delay or impede the development and commercialization of any of our products or product candidates and could have a material adverse effect on the Company's business, financial condition and results of operations.

We may be subject to product liability claims, which can be expensive, difficult to defend and may result in large judgments or settlements.

Drug development involves the testing of drugs on human subjects. Such studies create a risk of liability for personal injury or death to participants as a result of an unexpected adverse reaction to the tested drug or as a result of negligence or misconduct. Furthermore, the administration of drugs to humans after marketing clearance is obtained can result in product liability claims. Product liability claims can be expensive, difficult to defend and may result in large judgments or settlements against us. In addition, third party collaborators and licensees may not protect us from product liability claims. Product liability claims may also result in regulatory actions.

We currently maintain product liability insurance in connection with the marketing of our products. The Company may not be able to obtain or maintain adequate protection against potential liabilities arising from product sales. In addition, Cipher could become subject to potential liabilities as successor owner of an asset, product or business (even if not specifically assumed by us). In such circumstances, the Company's insurance policies may not provide enough coverage for such liabilities. If Cipher is unable to obtain sufficient levels of insurance at acceptable cost or otherwise protect against potential product liability claims, the Company will be exposed to product liability claims. A successful product liability claim in excess of the Company's insurance coverage could have a material adverse effect on our business, financial condition and results of operations. In addition, any successful claim may prevent the Company from obtaining adequate product liability insurance in the future on commercially desirable terms or at all. Even if a claim is not successful, defending such a claim may be time-consuming and expensive. Product liability claims, whether or not merited, could also result in negative perception of the Company and its products which could have a material adverse effect on the Company's business, financial condition and results of operations.

Unexpected product safety or efficacy concerns may arise.

Unexpected safety or efficacy concerns can arise with respect to our marketed and commercialized products, whether or not scientifically justified, leading to product recalls, withdrawals, post-approval requirements, such as studies or REMS, labeling revisions, withdrawal of regulatory approvals for the affected products, issuance of safety alerts, Dear Healthcare Provider letters, or other safety notices, required labeling changes, or declining sales, as well as product liability, consumer fraud and/or other claims. If product safety issues present a public health risk, products in the field may be subject to seizure or injunctive action preventing their distribution. This could have a material adverse effect on our business, financial condition and results of operations.

We generate license revenue from a limited number of distribution and supply agreements.

The Company currently generates license revenues from a limited number of distribution and supply agreements. A significant proportion of our revenue is derived from Absorica. The loss of that source of revenue for any reason could have a material adverse effect on our business, financial condition and results of operations.

The pharmaceutical industry is highly competitive and may be impacted by rapid technological change.

The Company competes to obtain licenses for products and competes to secure distribution channels. Moreover, our products compete with other products.

The pharmaceutical industry is subject to rapid and substantial technological change. The patents protecting the active ingredients for the products currently in our product pipeline have expired. In order to obtain commercial benefits from our products, Cipher relies on proprietary drug delivery systems. Our products will face intense competition from conventional forms of drug delivery systems and from delivery systems, which are similar to those in-licensed by the Company. We will compete with companies in North America and abroad, including major pharmaceutical and chemical companies, research and development firms, universities and other research institutions.

Many of the Company's competitors have greater financial resources and market capabilities, have greater experience in drug development and have greater experience in obtaining FDA and other regulatory approvals. The Company's competitors may succeed in developing technologies and products that are more effective or cheaper to use than any products that Cipher may

develop or license. These developments could render the Company's technologies and products obsolete or uncompetitive, which could have a material adverse effect on our business, financial condition and results of operations. These competitors could also be viewed as more favourable partners to licensors and/or distributors.

We may require additional capital to fund future operations.

We may have a need for capital resources to fund possible future operational needs, scheduled debt payments, product development expenditures and future strategic initiatives. We may expend amounts to fund research and development activities in order to develop new products and, to a lesser degree, to complete existing products under development. These expenditures may cause us to incur operating losses and cash flow deficiencies for the near future and until such time as sales of our products by commercial partners generate sufficient additional revenues. We attempt to mitigate the risk associated with drug development costs through the terms of our in-licensing agreements, where the risk of additional research and development costs is borne by our development partners and Cipher pays milestone amounts only when development milestones are achieved.

As at December 31, 2018, the Company had cash of US$10.4 million and debt of US$17.6 million. The Company also generates commercial revenue which provides a source of cash flow. In 2018, the Company reported total revenue of US$22.8 million.

We expect the cash on hand and the cash generated from operations may be sufficient to fund current product development and operating costs. Additional funding may be required for the development of new products in-licensed from technology partners and/or for additional acquisitions. Although Cipher believes that the Company could obtain additional capital through future equity or debt financing, there can be no assurance that it will be able to do so on terms acceptable to us or at all. If Cipher was unable to obtain sufficient additional capital, the development of our existing principal products and/or additional products could be disrupted, which could have a material adverse effect on our business, financial condition and operating results.

The Company's products in Canada may be subject to pricing regulation and changes in regulations or pricing adjustments could impact profitability.

All patented pharmaceutical products introduced in Canada are subject to the post-approval product pricing

regulation of the Patented Medicine Prices Review Board ("PMPRB"). Certain patented products may form part of Cipher's portfolio of products from time to time and may be subject to such regulation by the PMPRB. The PMPRB will monitor compliance through a review of the average transaction price of each patented drug product to be reported by Cipher over a recurring six-month reporting period. The PMPRB does not approve prices for drug products in advance of their introduction to the market, rather, it provides guidelines from which companies like Cipher set their prices at the time they launch their products. If the PMPRB's guidelines provide a ceiling price for a patented product that is lower than the Company's expectations, or if the PMPRB deems a patented product to be excessively priced, leading to the reduction of the product's price and the potential imposition of a fine, such restriction and regulation may hamper the Company's ability to profitably commercialize the product to its full market potential or at all. This could materially and adversely affect the Company's business and could have a material adverse effect on the Company and its financial results.

Furthermore, future changes to the regulations and/or guidelines of PMPRB or other relevant regulatory bodies may result in less favourable product pricing directives and requirements. The Company's ability to predict and/or adapt to such directives or requirements may be limited.

Cipher depends on key managerial personnel and external collaborators for our continued success.

Product development capacity will depend, to a great extent, on the ability to attract and retain highly qualified staff. The competition in the industry in which the Company operates is intense. Cipher's success will be highly dependent upon our Chief Executive Officer and the Company's small team of senior officers, our scientific personnel as well as our consultants and collaborators. The loss of key employees or collaborators, if any, could compromise the pace and success of our product development.

Although Cipher obtained regulatory approval in the U.S. and Canada for our commercialized products, there is no assurance that the Company will receive regulatory approvals in the U.S., Canada or any other jurisdictions for the other products in development or for future products.

The cost of obtaining and complying with government regulation can be substantial. Government authorities in the U.S., Canada and comparable authorities in foreign countries regulate the research and development, manufacture, testing and safety of pharmaceutical products as well as the approval and commercialization of such products. The regulations applicable to our existing and future products may change. There can be long delays in obtaining required clearances from regulatory

authorities in any country after applications are filed. Government agencies in the U.S., Canada and other countries in which Cipher intends to carry on business regulate pharmaceutical products intended for human use. Regulations require extensive clinical trials and other testing and government review and final approval before the Company can market our products.

Requirements for approval vary widely from country to country outside of the U.S. and Canada. Whether or not approved in the U.S. or Canada, regulatory authorities in other countries must approve a product prior to the commencement of marketing the product in those countries. The time required to obtain any such approval may be longer or shorter than in the U.S. and Canada. Marketing approval in one country does not ensure marketing approval in another, but a failure or delay in obtaining marketing approval in one country may have a negative effect on the regulatory process in others.

Any failure or delay in obtaining regulatory approvals could adversely affect the market for any products Cipher develops and commercialize and therefore our business, financial condition and results of operations.

Even if Cipher obtains regulatory approval of our products in the U.S., Canada, or elsewhere, any such approval might significantly limit the indications for use, to include a more limited patient population, require that certain precautions, contraindications or warnings be included on the product labeling, including black box warnings, require time-consuming post-approval clinical studies, or require that REMS be followed. For instance, CIP-Isotretinoin, called Absorica in the U.S. is subject to REMS requirements.

Furthermore, in the U.S., Canada, and elsewhere, the manufacturing, packaging, labeling, handling, distribution, importation, exportation, licensing, sale, marketing, promotion and storage of our products are affected by extensive laws, governmental regulations, administrative determinations, court decisions and similar constraints. There can be no assurance that the Company or the Company's third party distributors and manufacturers are in compliance with all of these laws, regulations and other constraints. Failure to comply with these laws, regulations or other constraints or new laws, regulations or constraints could lead to enforcement actions, the imposition of significant penalties or claims or withdrawal of marketing approvals, as a result of which our business, financial condition and financial results could be materially adversely affected. In addition, the adoption of new laws, regulations or other constraints or changes in the interpretation of such requirements may result in significant compliance costs that could be passed on to the Company by its distributors or manufacturers or lead the Company to discontinue product sales and may have an adverse effect on the marketing of our products, resulting in significant loss of sales. For instance, in the U.S., portions of the Drug Quality and Security Act, FDA's law on the tracking and tracing of prescription drug products, went into effect in 2015, which will add to our responsibilities and may increase the cost of doing business.

In the U.S., the FDA prohibits any written, verbal, or implied statement used to promote or sell a product that associates the product with an unapproved use that is not reflected in the product's approved label, referred to as off-label information. If any such evidence is found with respect to our products, the FDA or other regulatory authorities, including the U.S. Department of Justice, Department of Health and Human Services' Office of Inspector General, state attorneys general, and members of Congress may take adverse action against us, ranging from a warning letter necessitating cessation of use of the statement to injunctions against product sale, seizures of products promoted with the statements, inquiries, and civil and criminal prosecution, fines, and penalties. The federal government has levied large civil and criminal fines against companies for alleged improper promotion and has enjoined several companies from engaging in off-label promotion. The government has also requested that companies enter into consent decrees under which specified promotional conduct is changed or curtailed.

In the U.S., engaging in the impermissible promotion of our products, following approval or clearance, for off-label uses can also subject us to false claims litigation under federal and state statutes, which can lead to civil and criminal penalties and fines, agreements with governmental authorities that materially restrict the manner in which the Company promotes or distributes drug and device products through, for example, corporate integrity agreements, and debarment, suspension or exclusion from participation in federal and state healthcare programs and contracts. These false claims statutes include the federal civil False Claims Act, which allows any individual to bring a lawsuit against a company on behalf of the federal government alleging submission of false or fraudulent claims or causing others to present such false or fraudulent claims, for payment by a federal program such as Medicare or Medicaid. If the government decides to intervene and prevails in the lawsuit, the individual will share in the proceeds from any fines or settlement funds. If the government declines to intervene, the individual may pursue the case alone. These False Claims Act lawsuits have increased significantly in volume and breadth, leading to several substantial civil and criminal settlements regarding certain sales practices promoting off-label uses involving fines that are as much as US$3.0 billion. This growth in litigation has increased the risk that a company will have to defend a false claim action, pay settlement fines or restitution, as well as criminal and civil penalties, agree to comply with burdensome reporting and compliance obligations, and be excluded from Medicare, Medicaid and other federal and state healthcare programs. If Cipher does not lawfully promote our products, if any, the Company may become subject to such litigation and, if not successfully defended against such actions, those actions may have a material adverse effect on our business, financial condition, results of operations and prospects.

Certain of our products are subject to regulation as controlled substances, subjecting them, us, our contract manufacturers, our partners, prescribers, and dispensers to significant regulatory requirements.

CIP-Tramadol ER, called ConZip in the U.S., is regulated as a schedule IV narcotic controlled substance, subjecting it, us, our contract manufacturers, our partners, prescribers, and dispensers to significant regulation by the U.S. Drug Enforcement Administration ("DEA"). DEA's regulations address such areas as registration, security, recordkeeping, reporting, storage, distribution, prescribing, importing, exporting, and other requirements. States also may regulate controlled substances, including ConZip. These requirements could limit the commercialization of our controlled substance products, and failure to abide by these requirements could result in enforcement action. Moreover, in recent years FDA and other government authorities have devoted significant attention to the issue of opioids and opioid abuse, including guidance on the development of abuse deterrent opioids and labeling requirements, and these regulatory activities are ongoing. The Company's products may be subject to these and/or additional requirements that are in effect or may be developed in the future, which could have an adverse impact on our business.

We expect the healthcare industry to face increased limitations on reimbursement, rebates and other payments as a result of healthcare reform, which could adversely affect third-party coverage of our products and how much, or under what circumstances, healthcare providers will prescribe or administer our products, if approved.

In the U.S., Canada and other countries, sales of our products, if approved for marketing, will depend in part upon the availability of reimbursement from third-party payors, which include governmental authorities, managed care organizations and other private health insurers. Third-party payors are increasingly challenging the price and examining the cost effectiveness of medical products and services.

Increasing expenditures for healthcare have been the subject of considerable public attention in the U.S. Both private and government entities are seeking ways to reduce or contain healthcare costs. Numerous proposals that would effect changes in the U.S. healthcare system have been introduced or proposed in Congress and in some state legislatures, including reducing reimbursement for prescription products and reducing the levels at which consumers and healthcare providers are reimbursed for purchases of pharmaceutical products.

Cost reduction initiatives and changes in coverage implemented through legislation or regulation could decrease utilization of and reimbursement for any approved products, which in turn would affect the price the Company can receive for those products. Any reduction in reimbursement that results from federal legislation or regulation may also result in a similar reduction in payments from private payors, as private payors often follow Medicare coverage policy and payment limitations in setting their own reimbursement rates.

In March 2010, then President Barack Obama signed into law the Patient Protection and Affordable Care Act and the Health Care and Education Affordability Reconciliation Act of 2010 (together the "Affordable Care Act"), a legislation intended, among other things, to broaden access to health insurance and reduce or constrain the growth of healthcare spending. The Affordable Care Act increased the minimum rebate due for innovator drugs from 15.1% of average manufacturer price ("AMP"), to 23.1% of AMP and capped the total rebate amount for innovator drugs at 100.0% of AMP. The Affordable Care Act and subsequent legislation also narrowed the definition of AMP.

Furthermore, the Affordable Care Act imposes a significant annual, non-deductible fee on companies that manufacture or import certain branded prescription drug products. Pharmaceutical manufacturers are required to comply with the Sunshine Act, provisions of the Affordable Care Act, which requires pharmaceutical companies to monitor and report payments, gifts, the provision of samples and other remuneration made to physicians and teaching hospitals.

The Affordable Care Act also authorizes the Medicare program to engage in demonstration programs, including programs designed to lower the costs of drugs reimbursed under fee-for-service Medicare, such as drugs reimbursed under Medicare Part B. Proposals under this authority have already been issued, but have not yet been finalized. It is clear, however, that the continued implementation of the Affordable Care Act will continue to put pressure on pharmaceutical pricing, especially under the Medicare program, and may also increase our regulatory burdens and operating costs.

In addition, other legislative changes have been proposed and adopted since the Affordable Care Act was enacted. More recently, in August 2011, then President Obama signed into law the Budget Control Act of 2011, which, among other things, creates the Joint Select Committee on Deficit Reduction to recommend to Congress proposals in spending reductions. The Joint Select Committee did not achieve a targeted deficit reduction of an amount greater than US$1.2 trillion for the years 2013 through 2021, triggering the legislation's automatic reduction to several government programs. This includes aggregate reductions to Medicare payments to healthcare providers of up to 2.0% per fiscal year, which started in 2013 and continues currently through 2025.

These new laws may result in additional reductions in healthcare funding, which could have a material adverse effect on our customers, which may affect our financial operations. Legislative and regulatory proposals may expand post-approval requirements and restrict sales and promotional activities for pharmaceutical products. In addition, in January 2017, newly-elected President Donald Trump signed an executive order intended to "eas[e] the burden of the Affordable Care Act," the full impact of which is unclear and which the Company believes signals President Trump's support for a repeal of the Affordable Care Act by the Republican-controlled U.S. Congress. In December 2017, the U.S. Congress successfully passed a repeal of the Affordable Care Act's individual mandate, a federal requirement under that legislation which stated that most Americans must carry a minimum level of health coverage, which took effect in 2019. Given the individual mandate served as a mechanism to balance insurer risk and costs, as it is perceived that in the absence of such mandate only those individuals who currently need access to the health care system would opt for coverage, the U.S. Congress may attempt to resolve this imbalance by either amending or repealing the Affordable Care Act. However, Cipher cannot be sure whether additional legislative changes will be enacted, or whether the FDA regulations, guidance or interpretations will be changed, or what the impact of such changes on the marketing approvals of our products or our other product candidates may be. In response to the repeal of the Affordable Care Act's individual mandate at the federal level, certain U.S. states including Massachusetts, New Jersey and the District of Columbia have passed legislation to penalize individuals for not having health insurance commencing in 2019 and certain other states are considering introducing similar legislation.

Although Cipher cannot predict the full effect on our business of the implementation of existing legislation or the enactment of additional legislation pursuant to healthcare and other legislative reform, it is believed that legislation or regulations that would reduce reimbursement for, or restrict coverage of, our products could adversely affect how much or under what circumstances healthcare providers will prescribe or administer our products. This could materially and adversely affect our business by reducing our ability to generate revenues, raise capital, obtain additional licensees and market our products. In addition, Cipher believes the increasing emphasis on managed care in the U.S. has and will continue to put pressure on the price and usage of pharmaceutical products, which may adversely impact product sales.

It will be difficult for us to profitably market and sell our products if reimbursement for products is limited by government authorities and third-party payor policies.

In addition to any healthcare reform measures that may affect reimbursement, market acceptance and sales of the Company's products and product candidates, if approved, will depend on the reimbursement policies of government authorities and third-party payors. Government authorities and third-party payors, such as private health insurers and health maintenance organizations, decide which medications they will pay for and establish reimbursement levels.

In Canada, patented pharmaceutical products are subject to price control by the PMPRB. Third-party payers increasingly challenge the pricing of pharmaceutical products. In addition, the trend toward managed healthcare in the U.S., the growth of organizations such as Health Maintenance Organizations ("HMOs") and Managed Care Organizations ("MCOs") and legislative proposals to reform healthcare and government insurance programs could significantly influence the purchase of pharmaceutical products, resulting in lower prices and reduction in product demand. Such cost containment measures and healthcare reform could affect our partners' ability to sell our products and may have a material adverse effect on our business, financial condition and results of operations.

Uncertainty exists about the reimbursement status of newly approved pharmaceutical products. Reimbursement in the U.S., Canada or other foreign countries may not be available for some of the Company's products. Any reimbursement granted may not be maintained or limits on reimbursement available from third-party payers may reduce demand for, or negatively affect the price of, those products. These issues could have a material adverse effect on the Company's business, financial condition and results of operations. The Company is unable to predict if additional legislation or regulation impacting the healthcare industry or third-party coverage and reimbursement may be enacted in the future, or what effect such legislation or regulation would have on the Company's business.

If Cipher is not able to convince public payors and hospitals to include its products on the approved formulary lists, revenues may not meet expectations and business, results of operations and financial condition may be adversely affected.

Hospitals establish formularies, which are lists of drugs approved for use in each such hospital. If a drug is not included on a hospital's formulary, the ability of the Company's distribution partners and key account managers to promote and sell drugs may be limited or denied. If Cipher fails to secure and maintain formulary inclusion for its drugs on favourable terms or are significantly delayed in doing so, Cipher may have difficulty achieving market acceptance of our drugs and our business, results of operations and financial condition could be materially adversely affected.

Hospital customers may be late in their payments and in some cases may not pay monies owed.

Hospital customers that purchase our products and product candidates, if approved, generally bill public payors to cover all or a portion of the costs and fees associated with these purchases. Revenue and financial condition depend on the extent to

which the customers are reimbursed for these costs and fees, and the extent to which such payments are made to us according to the timelines required by our contracts or general terms and conditions. Such payments may be delayed or withheld for many reasons, including, but not limited to, regulatory requirements of local and national governments, reimbursement requirements of public payors, the financial condition or access to capital of our customers and public payors or the deterioration of general or local economic conditions. The non-payment or late payment of amounts due from customers and public payors may increase the allowance for doubtful accounts or delay the timing of receipt of cash, which would negatively impact our financial condition. In addition, any increase to the allowance for doubtful accounts or write-off accounts receivable would also negatively impact our financial position and results of operations.

The Company or its distributors may be subject to various laws pertaining to health care fraud and abuse, including anti-kickback, self-referral, false claims and fraud laws, and any violations by us of such laws could result in fines or other penalties.

The U.S. federal anti-kickback statute prohibits the offer, receipt, or payment of remuneration in exchange for or to induce the referral of patients or the use of products or services that would be paid for in whole or part by Medicare or other federal health care programs. Remuneration has been broadly defined to include anything of value, including cash, improper discounts, and free or reduced price items and services. Many states have similar laws that apply to their state health care programs as well as private payors. Violations of the anti-kickback laws can result in exclusion from federal health care programs and substantial civil and criminal penalties.

The U.S. federal False Claims Act ("FCA"), imposes liability on persons who, among other things, present or cause to be presented false or fraudulent claims for payment by a federal health care program. The FCA has been used to prosecute persons submitting, or causing the submission of, claims for payment that are inaccurate or fraudulent, that are for services not provided as claimed, or for services that are not medically necessary. The FCA includes a whistleblower provision that allows individuals to bring actions on behalf of the federal government and share a portion of the recovery of successful claims. If our marketing or other arrangements were determined to violate anti-kickback or related laws, including the FCA, then our revenues could be adversely affected, which would likely harm our business, financial condition, and results of operations.

State and federal authorities have aggressively targeted medical technology companies for alleged violations of these anti-fraud statutes, based on improper research or consulting contracts with doctors, certain marketing arrangements that rely on volume-based pricing, off-label marketing schemes, and other improper promotional practices. Companies targeted in such prosecutions have paid substantial fines in the hundreds of millions of dollars or more, have been forced to implement extensive corrective action plans, and have often become subject to consent decrees severely restricting the manner in which they conduct their business. If Cipher becomes the target of such an investigation or prosecution based on our contractual relationships with providers or institutions, or our marketing and promotional practices, the company could face similar sanctions, which would materially harm our business.

Also, the U.S. Foreign Corrupt Practices Act, the Canadian Corruption of Foreign Officials Act and similar worldwide anti-bribery laws generally prohibit companies and their intermediaries from making improper payments to non-U.S. officials for the purpose of obtaining or retaining business. Our internal control policies and procedures may not protect us from reckless or negligent acts committed by our employees, future distributors, licensees or agents. Violations of these laws, or allegations of such violations, could result in fines, penalties or prosecution and have a negative impact on our business, results of operations and reputation.

The Company relies on the success of strategic investments and partnerships.

Economic, governmental, industry and internal company factors outside our control affect each of the companies in which Cipher may invest or partner. If these companies do not succeed, the value of our assets and the market price of the Common Shares could decline. Some of the material risks relating to the companies in which the Company may invest in, or partner with, include:

- the ability of these companies to successfully develop and manufacture the products which serve as the basis of our investment;
- the ability of competitors to develop similar or more effective products, making the drugs developed by the companies in which Cipher invests difficult or impossible to market;
- the ability of these companies to adequately secure patents for their products that do not infringe existing patents and protect their proprietary information;
- the ability of the companies to remain technologically competitive, and the dependence of these companies upon key scientific and managerial personnel; and

- the ability of these companies to remain financially viable.

Cipher will have limited or no control over the resources that any company in which it invests may devote to developing products in collaboration with us. Any company in which Cipher invests may not perform as expected. These companies may breach or terminate their agreements or otherwise fail to conduct product discovery and development activities successfully or in a timely manner. If any of these events occur, it could have a material adverse effect on the business, financial condition and results of operations.

The publication of negative results of clinical trials may adversely impact our products.

From time to time, studies or clinical trials on various aspects of pharmaceutical products, including a product's active ingredient, are conducted by academic researchers or others, including government agencies. The results of these studies or trials, when published or posted on government websites such as clinicaltrials.gov, may have a significant effect on the market for the pharmaceutical product that is the subject of the study. The publication of negative results of studies or clinical trials related to our products, an active ingredient in our products, or the therapeutic areas in which our products compete could adversely affect our sales, the prescription trends for our products and the reputation of our products. In the event of the publication of negative results of studies or clinical trials related to our products, an active ingredient in our products, or the therapeutic areas in which our products compete, this could have a materially adverse effect on our business, financial condition and results of operations.

Development goals and projected time frames are unpredictable and may not be achieved.

The Company set goals for, and make public statements regarding, timing of the accomplishment of objectives material to our success, such as the commencement and completion of clinical trials, anticipated regulatory approval dates, and the timing of product launches. The actual timing of these events can vary dramatically due to factors such as delays or failures in our clinical trials, the uncertainties inherent in the regulatory approval process, and delays in achieving product development, manufacturing or marketing milestones necessary to commercialize our products. There can be no assurance that our clinical trials will be completed on a timely basis or at all, that Cipher will make regulatory submissions or receive regulatory approvals as planned, or that Cipher will be able to adhere to our current schedule for the scale-up of manufacturing and launch of any of our products. If the Company fails to achieve one or more of these milestones as planned, it could have a material adverse effect on our business, financial condition and results of operations.

Rising insurance costs could negatively impact our profitability.

The cost of insurance, including director and officer, product liability and general liability insurance, has risen significantly in recent years and is expected to continue to increase. In response, Cipher may increase deductibles and/or decrease certain coverage to mitigate these costs. These increases, and our increased risk due to increased deductibles and reduced coverage, could have a material adverse effect on our business, financial condition and results of operations.

Under applicable employment laws, the Company may not be able to enforce covenants not to compete.

Cipher generally enters into non-competition agreements as part of employment agreements with employees. These agreements generally prohibit Cipher's employees, if they cease working for the Company, from competing directly with us or working for our competitors or clients for a limited period. We may be unable to enforce these agreements under the laws of the jurisdictions in which employees work and it may be difficult to restrict our competitors from benefitting from the expertise our former employees or consultants developed while working for us.

The Company is subject to risks associated with the industry in which it operates.

Currently, the Company primarily operates in the North American healthcare industry. Accordingly, the Company is subject to risks associated with operating in a single industry in a concentrated geographic location. Any event affecting this industry could have a material adverse effect on the Company's business, financial condition and results of operations. Moreover, our projected revenues and operating results are based on assumptions concerning certain levels of product purchases in these markets. Any failure to attain the Company's projected revenues and operating results as a result of adverse economic or market conditions could have a material adverse effect on the Company's business and financial condition.

Cipher may be unsuccessful in evaluating material risks involved in completed and future acquisitions.

Cipher regularly reviews acquisition opportunities and as part of the review, conducts business, legal and financial due diligence with the goal of identifying and evaluating material risks involved in any particular acquisition. Despite Cipher's efforts, it may be unsuccessful in identifying and/or evaluating all such risks. As a result, Cipher may not realize the expected benefits and synergies of any given acquisition. If Cipher fails to realize the expected benefits and/or synergies from one or more

acquisitions or does not identify all of the risks associated with a particular acquisition, this could have a material adverse effect on Cipher's business, financial condition and results of operations.

In addition, Cipher may fail to discover liabilities of any acquired companies for which it may be responsible as a successor owner or operator in spite of any investigation made prior to the acquisition. Such discoveries may divert significant financial, operational and managerial resources from existing operations, and could have a material adverse effect on Cipher's business, financial condition and results of operations.

The Company may be unable to successfully identify, acquire or integrate acquisition targets.

Part of Cipher's business strategy includes identifying, acquiring and integrating businesses, products, pharmaceuticals or other assets that Cipher believes are complementary to its existing businesses, products, pharmaceuticals or other assets, and forming strategic alliances, joint ventures and other business combinations, to help drive future growth.

Acquisitions or similar arrangements may be complex, time consuming and expensive. Cipher may enter into negotiations for an acquisition but determine not to, or be unable to, complete any particular acquisition or other arrangement, which could result in a significant diversion of management and other employee time, as well as substantial out-of-pocket fees and costs.

If an acquisition or other arrangement is completed, the integration into Cipher's business with the business, product or asset that is so acquired or subject to such other arrangement may also be complex and time-consuming and, if any such business, product and/or asset is not successfully integrated, Cipher may not achieve the anticipated benefits, cost-savings or growth opportunities and may experience other opportunity costs.

Furthermore, these acquisitions and other arrangements, even if successfully integrated, may not advance or enhance Cipher's business strategy as anticipated (or to an extent that the cost of such acquisitions and other arrangements would be justified), and they may expose Cipher to increased competition or challenges with respect to Cipher's products or geographic markets and expose Cipher to additional liabilities, including litigation, tax and successor liability risks, associated with any business, product or other asset that is acquired or subject to such other arrangement.

Any one of these challenges or risks could impair Cipher's ability to realize any benefit from any such acquisition or other arrangement and this could have a material adverse effect on Cipher's business, financial condition and results of operations.

Cipher historically conducted certain of its operations through U.S. subsidiaries.

Cipher historically conducted certain of its operations through U.S. subsidiaries. Cipher may thus be subject to a number of associated legacy risks which are beyond its control. While these factors cannot be accurately predicted, Cipher believes the relative risk of its historic operations in the United States is low on a world-wide scale.

Cipher may not be able to continue to meet certain covenants under its existing long term debt arrangement and inability to meet these covenants could result in acceleration of the Company's long term liabilities.

Cipher's existing long term debt arrangement, specifically the credit facility pursuant to the Credit Agreement require the Company to maintain specified coverage ratios and satisfy financial covenants. There can be no assurance that Cipher will be able to continue to meet the covenants under such existing credit facilities. A failure to meet such covenants could result in our lenders seeking to enforce their security under such credit facilities. This could have a material adverse effect on Cipher's business, financial condition and results of operations. The credit facility also contains restrictive covenants.

The restrictions in our credit facilities governing our other indebtedness may prevent Cipher from taking actions that Cipher believes would be in the best interest of our business and may make it difficult for us to execute our business strategy successfully or effectively compete with companies that are not similarly restricted. The Company may also incur future debt obligations that might subject the Company to additional restrictive covenants that could affect our financial and operational flexibility. We may be unable to refinance our indebtedness, at maturity or otherwise, on terms acceptable to us, or at all.

Our ability to comply with the covenants and restrictions contained in our credit facilities may be affected by economic, financial and industry conditions, beyond our control including credit or capital market disruptions. The breach of any of these covenants or restrictions could result in a default that would permit the lenders to declare all amounts outstanding to be due and payable, together with accrued and unpaid interest. If Cipher is unable to repay the indebtedness, the lenders could proceed against the collateral securing the indebtedness. This could have serious consequences to our financial position and results of operations and could cause us to become bankrupt or insolvent.

There is no assurance that Cipher will be able to secure future additional financing to repay our current credit facilities should cash flows from operations be insufficient to repay these liabilities.

Compliance with privacy and security regulation.

The Company may also be subject to various privacy and security regulations, including, but not limited to, the U.S. federal Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), as amended by the U.S. federal Health Information Technology for Economic and Clinical Health Act of 2009. HIPAA mandates, among other things, the adoption of uniform standards for the electronic exchange of information in common health care transactions (*e.g.* health care claims information and plan eligibility, referral certification and authorization, claims status, plan enrolment, coordination of benefits and related information), as well as standards relating to the privacy and security of individually identifiable health information, which require the adoption of administrative, physical and technical safeguards to protect such information. In addition to many other jurisdictions, several U.S. states have enacted comparable laws addressing the privacy and security of health information, some of which are more stringent than HIPAA. Failure to comply with any of these laws could result in the imposition of significant civil and criminal penalties. The costs of compliance with these laws or similar laws in other countries and the potential liability associated with any failure to comply with these laws could have a material adverse effect on the Company's business, financial condition and results of operations.

Our policies regarding returns, allowances and chargebacks may reduce revenues in future fiscal periods.

We cannot ensure that our estimated reserves are adequate or that actual product returns, allowances and chargebacks will not exceed the estimates, which could have a material adverse effect on our results of operations, financial condition, and cash flows.

The Company may be subject to certain regulations that could restrict its activities and abilities to generate revenues as planned.

From time-to-time, governments, government agencies and industry self-regulatory bodies in Canada, the U.S. and other countries in which Cipher will operate have adopted statutes, regulations and rulings that directly or indirectly affect the activities of Cipher and our future clients. These regulations could adversely impact on our ability to execute our business strategy and generate revenues as planned.

The Company is subject to risks related to additional regulatory burden and controls over financial reporting.

The Company is subject to the continuous and timely disclosure requirements of Canadian laws and the rules, regulations and policies of the TSX. These rules, regulations and policies relate to, among other things, corporate governance, corporate controls, internal controls, disclosure controls and procedures and financial reporting and accounting systems. The Company has made, and will continue to make, changes in these and other areas, including the Company's internal controls over financial reporting. However, there is no assurance that these and other measures that it may take will be sufficient to allow the Company to satisfy its obligations as a public company on a timely basis. In addition, compliance with reporting and other requirements applicable to public companies create additional costs for the Company and require the time and attention of management of the Company. The Company cannot predict the amount of the additional costs that the Company may incur, the timing of such costs or the impact that management's attention to these matters will have on the Company's business.

In addition, the Company's inability to maintain effective internal controls over financial reporting could increase the risk of an error in its financial statements. Cipher's management, with the participation of the Company's Chief Executive Officer and Chief Financial Officer, is responsible for establishing and maintaining adequate internal control over financial reporting. The Company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with International Financial Reporting Standards. Internal control over financial reporting cannot provide absolute assurance of achieving financial reporting objectives due to its inherent limitations. Internal control over financial reporting is a process that involves human diligence and compliance and is therefore subject to error, improper override or improper application of the internal controls. Because of such limitations, there is a risk that material misstatements may not be prevented or detected on a timely basis, and although it is possible to incorporate into the financial reporting process safeguards to reduce this risk, they cannot be guaranteed to entirely eliminate it. If the Company fails to maintain effective internal control over financial reporting, then there is an increased risk of an error in the Company's financial statements that could result in the Company being required to restate previously issued financial statements at a later date.

The Company relies on third parties to perform distribution, logistics, invoicing, regulatory and sales services for its products.

The Company relies on third parties to provide distribution, logistics, invoicing, regulatory and sales services including warehousing of finished products, accounts receivable management, billing, collection, record keeping and processing of invoices (including with insurance companies). If the third parties cease to be able to provide the Company with these services or do not provide these services in a timely or professional manner, or in accordance with the applicable regulatory requirements, or if contracts with such third parties are terminated for any reason, the Company may not be able to successfully manage the logistics associated with distributing and selling its products which could result in a delay or interruption in delivering products to its customers and could impact product sales and revenues or the Company's ability to integrate new products into its business, any of which could have a material adverse effect on the Company's business, financial condition and results of operations. Such third parties' failure to comply with the applicable regulatory requirements could also subject us to regulatory action.

In addition, the supply of the Company's products to its customers (or, in some cases, supply from the Company's contract manufacturers to the Company) is subject to and dependent upon the use of transportation services and third party distribution facilities. Such supply chain logistics result in the Company not being in control of its products at all times, while maintaining liability for such products. Moreover, transportation services or third party distribution facilities may be disrupted (including as a result of weather conditions or due to technical, labour or other difficulties or conditions), any of which could have a material adverse effect on the Company's business, financial condition and results of operations.

The Company is subject to risks related to general commercial litigation, class actions, employment claims and other litigation claims, as well as potential administrative and regulatory actions, as part of its operations.

In the course of its business, the Company receives general commercial claims related to the conduct of its business and the performance of its products and services, employment claims and other litigation claims, and the Company also could become subject to class actions. Litigation resulting from these claims could be costly and time-consuming and could divert the attention of management and other key personnel from the Company's business and operations. The complexity of any such claims and the inherent uncertainty of commercial, class action, employment and other litigation increases these risks. In recognition of these considerations, the Company could suffer significant litigation expenses in defending any of these claims and may enter into settlement agreements. If the Company is unsuccessful in its defense of material litigation claims or is unable to settle the claims, the Company may be faced with significant monetary damage awards or other remedies against it including injunctive relief that could have a material adverse effect on the Company's business, financial condition and results of operations. Administrative or regulatory actions against the Company or its employees could also have a material adverse effect on the Company's business, financial condition and results of operations.

It may be difficult for shareholders to realize in the United States upon judgments of U.S. courts predicated upon civil liability of the Company and its directors and officers.

The Company is a corporation existing under the laws of the Province of Ontario, Canada. Many of the Company's assets are located outside of the United States, and certain of its officers and directors are residents of countries other than the United States. As a result, it may be difficult for shareholders to effect service of process within the United States upon the Company and its directors and officers, or to realize in the United States upon judgments of courts of the United States predicated upon civil liability of the Company and its directors and officers under United States federal securities laws.

RISKS RELATED TO OUR INTELLECTUAL PROPERTY

If the Company infringes or is alleged to infringe or otherwise violate intellectual property rights of third parties, our business could be harmed.

Our research, development and commercialization activities may infringe, or otherwise violate or be claimed to infringe or otherwise violate, patents or patent applications owned or controlled by other parties. Competitors in the field of therapies that are similar to Cipher, have developed large portfolios of patents and patent applications relating to our business. There may be granted patents that could be asserted against us in relation to such product candidates. There may also be granted patents held by third parties that may be infringed or otherwise violated by our other product candidates and activities, and Cipher does not know whether or to what extent the Company is infringing or otherwise violating third party patents. There may also be third party patent applications that, if approved and granted as patents, may be asserted against us in relation to our products or any of our product candidates or activities. These third parties could bring claims against Cipher that would cause us to incur substantial expenses and, if successful against us, could cause us to pay substantial damages and legal fees. Further, if a patent infringement suit were brought against us, we could be temporarily or permanently enjoined or otherwise forced to stop or delay research, development, manufacturing, marketing or sales of the product candidate or method that is the subject of the suit.

As a result of patent infringement claims, or to avoid potential claims, Cipher may choose or be required to seek licenses from third parties. These licenses may not be available on acceptable terms, or at all. Even if Cipher is able to obtain a license, the license would likely obligate the Company to pay license fees or royalties or both, and the rights granted to the Company might be nonexclusive, which could result in competitors gaining access to the same intellectual property, or such rights might be restrictive and limit our present and future activities. Ultimately, Cipher or a licensee could be prevented from commercializing a product or be forced to cease some aspect of business operations if, as a result of actual or threatened patent infringement claims, the Company is unable to enter into or maintain licenses on acceptable terms.

If efforts to obtain, protect or enforce our patents and other intellectual property rights related to our products or any of our product candidates are not adequate, Cipher may not be able to compete effectively and otherwise may be harmed.

Our commercial success depends in part on our ability to obtain and maintain patent protection and utilize trade secret protection for our intellectual property and proprietary technologies, our products and their uses, as well as our ability to operate without infringing upon the proprietary rights of others. We rely upon a combination of patents, trade secret protection and confidentiality agreements, assignment of invention agreements and other contractual arrangements to protect the intellectual property related to our products and our other development programs. There can be no assurance as to the breadth or degree of protection that existing or future patents or patent applications may afford us or that any patent applications will result in issued patents or that our patents will be upheld if challenged. Limitations on the scope of our intellectual property rights may limit our ability to prevent third parties from designing around such rights and competing against us. For example, our patents typically do not claim a new compound. Rather, the active pharmaceutical ingredients of our products are existing compounds and our granted patents and pending patent applications are directed to, among other things, novel formulations of these existing compounds. Accordingly, other parties may compete with us, for example, by independently developing or obtaining competing formulations that design around our patent claims, but which may contain the same active ingredients, or by seeking to invalidate our patents. Moreover, any disclosure to or misappropriation by third parties of our confidential proprietary information, unless the Company has sufficient patent and/or trade secret protection and are able to enforce such rights successfully, could enable competitors to quickly duplicate or surpass our technological achievements, eroding our competitive position in our market.

However, the patents and patent applications that Cipher owns or license may fail to result in granted patents in the U.S. or foreign jurisdictions or, if granted, may fail to prevent a potential infringer from marketing its product or be deemed invalid and unenforceable by a court. Our ability to obtain and maintain valid and enforceable patents depends on various factors, including interpretation of our technology and the prior art and whether the differences between them allow our technology to be patentable. Patent applications and patents granted from them are complex, lengthy and highly technical documents that are often prepared under very limited time constraints and may not be free from errors that make their interpretation uncertain. The existence of errors in a patent may have a materially adverse effect on the patent, its scope and its enforceability. Our pending patent applications may not issue, and the scope of the claims of patent applications that do issue, may be too narrow to adequately protect our competitive advantage. Also, our granted patents and applications may be subject to challenges, including ownership challenges, or may be narrowly construed and may not provide adequate protection.

Even if these patents do successfully issue, third parties may challenge the validity, enforceability or scope of such granted patents or any other granted patents Cipher owns or licenses, which may result in such patents being narrowed, invalidated or held unenforceable. For example, patents granted by the European Patent Office may be opposed by any person within 9 months from the publication of their grant. Also, patents granted by the USPTO may be subject to re-examination and other challenges. In addition, recent changes to the patent laws of the U.S. provide additional procedures for third parties to challenge the validity of patents issuing from patent applications filed after March 15, 2013. Furthermore, efforts to enforce our patents could give rise to challenges to their validity or unenforceability in court proceedings. If the patents and patent applications Cipher holds or pursues with respect to our products or any of our other product candidates are challenged, it could threaten our competitive advantage for our products or any of our other product candidates. Furthermore, even if they are not challenged, our patents and patent applications may not adequately protect our intellectual property or prevent others from designing around our claims. To meet such challenges, which are part of the risks and uncertainties of developing and marketing product candidates, the Company may need to evaluate third party intellectual property rights and, if appropriate, to seek licenses for such third party intellectual property or to challenge such third party intellectual property, which may be costly and may or may not be successful, which could also have a material adverse effect on the commercial potential for products and any other product candidates.

Furthermore, for applications filed before March 16, 2013, or patents issuing from such applications, an interference proceeding can be invoked by a third party, or instituted by USPTO, to determine who was the first to invent any of the subject matter covered by the patent claims of our applications and patents. As of March 16, 2013, the U.S. transitioned to a “first-to-file” system for deciding which party should be granted a patent when two or more patent applications are filed by different parties claiming the same invention. A third party that files a patent application in the USPTO under the new first-to-file system

before us could therefore be awarded a patent covering an invention of ours even if Cipher had made the invention before it was made by the third party.

The change to “first-to-file” from “first-to-invent” is one of the changes to the patent laws of the U.S. resulting from the Leahy-Smith America Invents Act signed into law on September 16, 2011. Among some of the other changes to the patent laws are changes that limit where a patentee may file a patent infringement suit and providing opportunities for third parties to challenge any issued patent in the USPTO. Because of a lower evidentiary standard in certain USPTO proceedings compared to the evidentiary standard in U.S. federal court necessary to invalidate a patent claim, a third party could potentially provide evidence in a USPTO proceeding sufficient for the USPTO to hold a claim invalid even though the same evidence would be insufficient to invalidate the claim if first presented in a district court action. Accordingly, a third party may attempt to use the USPTO procedures to invalidate our patent claims that would not have been invalidated if first challenged by the third party as a defendant in a district court action.

Even where patent, trade secret and other intellectual property laws provide protection, costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights and the outcome of such litigation would be uncertain. Moreover, any actions Cipher may bring to enforce our intellectual property against our competitors could provoke them to bring counterclaims against us, and our competitors have intellectual property portfolios of their own, some of which are substantial. An unfavorable outcome could have a material adverse effect on our business and could result in the challenged patent being interpreted narrowly or invalidated, or one or more of our patent applications may be not be granted.

We also rely on trade secret protection and confidentiality agreements to protect our know how, data and information prior to filing patent applications and during the period before they are published. We further rely on trade secret protection and confidentiality agreements to protect proprietary know-how that may not be patentable, processes for which patents may be difficult to obtain or enforce and other elements of our product development processes that involve proprietary know-how, information or technology that is not covered by patents.

In an effort to protect our trade secrets and other confidential information, Cipher incorporates confidentiality provisions in all our employees’ agreements and require our consultants, contractors and licensees to which the Company discloses such information to execute confidentiality agreements upon the commencement of their relationships with us. These agreements require that confidential information, as defined in the agreement and disclosed to the individual by us during the course of the individual’s relationship with us, be kept confidential and not disclosed to third parties for an agreed term. These agreements, however, may not provide Cipher with adequate protection against improper use or disclosure of confidential information, and these agreements may be breached. Adequate remedies may not exist in the event of unauthorized use or disclosure of the Company’s confidential information. A breach of confidentiality could significantly affect our competitive position and Cipher could lose our trade secrets or they could become otherwise known or be independently discovered by our competitors. Also, to the extent that our employees, consultants or contractors use any intellectual property owned by others in their work for us, disputes may arise as to the rights in any related or resulting know-how and inventions. Additionally, others may independently develop the same or substantially equivalent proprietary information and techniques or otherwise gain access to our trade secrets and other confidential information. Any of the foregoing could deteriorate our competitive advantages, undermine the trade secret and contractual protections afforded to our confidential information and have material adverse effects on our business.

Changes in U.S., Canadian or foreign patent law could diminish the value of patents in general, thereby impairing our ability to protect our products.

The strength of patents in the pharmaceutical field involves complex legal and scientific questions and, in the U.S., Canadian and many foreign jurisdictions, patent policy also continues to evolve, and the issuance, scope, validity, enforceability and commercial value of our patent rights are highly uncertain. This uncertainty includes changes to the patent laws through either legislative action to change statutory patent law or court action that may reinterpret existing law in ways affecting the scope or validity of granted patents, or both. Particularly in recent years in the U.S., there have been several major legislative developments and court decisions that have affected patent laws in significant ways and there may be more developments in the future that may weaken or undermine our ability to obtain new patents or to enforce existing and future patents owned or licensed.

There has been substantial litigation in the pharmaceutical industry concerning the manufacture and supply of novel versions of existing drugs as well as generic versions of existing drugs. Regardless of FDA or Health Canada approval, should anyone commence a lawsuit with respect to any alleged patent infringement by the Company, the uncertainties inherent in patent litigation make the outcome of such litigation difficult to predict and the cost involved in defending every lawsuit can be substantial.

When a drug developer files a 505(b)(2) NDA or ANDA, it is required to certify to the FDA that no patent information on the drug product and drug substance that claims the reference listed drug, in the case of an ANDA, or on which investigations that were relied on by the developer for approval of its application were conducted, in the case of a 505(b)(2) application, as well as claiming methods of use for such drug, has been submitted to FDA. Alternatively, applicants may certify that such patents have expired, the date any such patent will expire, or that any such patent is invalid or will not be infringed by the manufacture, sale or use of the new drug for which the 505(b)(2) NDA or ANDA is submitted. Approval of an NDA is not effective until each listed patent expires, unless the applicant certifies that the patents are not infringed or invalid, or indicates, in the case of method of use patents, that the applicant is not seeking approval for the patented method of use. If the applicant certifies that the patents are not infringed or are invalid, the applicant must so notify the patent holder and the holder of the branded product NDA within set timeframes. A patent holder or NDA holder may then bring a patent infringement lawsuit within 45 days of receiving notice. In such a case, the FDA is precluded by statute from making an approval effective until the earlier of 30 months after the receipt of the certification notice by the patent or NDA holder, a final court decision of non-infringement or patent invalidity, settlement, or a shorter or longer period as determined by the court. Challenges of this type are not uncommon. Similar procedures exist in Canada under the Patented Medicines (Notice of Compliance) Regulations.

Third parties own patents relating to product formulations. Claims by these companies that Cipher infringes their proprietary technology may result in liability for damages or may delay the development and commercialization of Cipher's products. In the pharmaceutical industry, it is not uncommon for competitors to advance such claims for strategic purposes. There can be no assurance that additional patent or other litigation will not arise in connection with any of our current or future products or product candidates. Patent litigation, with or without merit, is time-consuming and costly and may significantly impact our financial condition and results of operations, even if the Company prevails. If Cipher does infringe the intellectual property rights of others, the Company could lose the right to develop, manufacture or sell products or could be required to pay monetary damages or royalties to license proprietary rights from third parties. The outcomes of infringement actions are uncertain and infringement actions are costly and divert technical and management personnel from their normal responsibilities.

To the extent our products are patented and the patents are suitable for listing in the FDA's Orange Book, and are listed in the Orange Book, as required, the patents can be challenged, generic products can be approved under an ANDA, or changes to our drug products can be approved under a 505(b)(2) application. In the United States, under the "Hatch-Waxman Act", the FDA can approve an ANDA, for a generic version of a branded drug. In place of clinical studies, an ANDA applicant usually needs only to submit data demonstrating that its product has the same active ingredient(s), dosage form, strength, route of administration, labeling, performance characteristics and intended use as our product. An ANDA applicant must also demonstrate that the proposed generic product is bioequivalent to the reference listed drug. This is referred to as the ANDA process. The "Hatch-Waxman Act" requires an applicant for a drug that relies, at least in part, on the patent of a branded drug, to go through the patent certification process described above.

Any litigation could have a material adverse effect on our business, financial condition and operating results.

If Cipher is unable to protect our trademarks from infringement, our business prospects may be harmed.

Cipher owns and has licensed trademarks that identify our products and these trademarks have been registered in the U.S. and Canada. Although steps are taken to monitor the possible infringement or misuse of our trademarks, it is possible that third parties may infringe, dilute or otherwise violate our trademark rights. Any unauthorized use of our trademarks could harm our reputation or commercial interests. In addition, our enforcement against third-party infringers or violators may be unduly expensive and time-consuming and the outcome may be an inadequate remedy.

RISKS RELATED TO OUR COMMON SHARES

Shareholders of the Company may be further diluted.

The Company has financed its operations to date through the sale of securities, specifically, Common Shares. We may need to continue our reliance on the sale of such securities for future financing, resulting in dilution to our existing shareholders. Our long-term capital requirements will depend on many factors, including continued scientific progress in our product discovery and development programs, progress in its pre-clinical and clinical evaluation of products and product candidates, time and expense associated with filing, prosecuting and enforcing its patent claims and costs associated with obtaining regulatory approvals. In order to meet such capital requirements, Cipher will consider contract fees, collaborative research

and development arrangements, public financing or additional private financing (including the issuance of additional equity securities) to fund all or part of our particular programs.

Our business, financial condition and results of operations may depend on our ability to obtain additional financing, which may not be available under favourable terms, if at all. Our ability to arrange such financing in the future will depend in part upon the prevailing capital market conditions as well as our business performance. If our capital resources are exhausted and adequate funds are not available, Cipher may have to reduce substantially, or eliminate, expenditures for research and development, testing, production and marketing of our proposed products, or obtain funds through arrangements with corporate partners that require us to relinquish rights to certain of our technologies or products.

Our share price has been volatile, and an investment in our Common Shares could suffer a decline in value.

Market prices for the securities of pharmaceutical and biotechnology companies have historically been highly volatile and the market has, from time to time, experienced significant price and volume fluctuations that are unrelated to the operating performance of particular companies. In addition to the risk factors described herein, factors such as fluctuations in our operating results, the aftermath of any public announcements made by us, concern as to the safety of any drugs developed by us, and general market conditions can, and have had an adverse effect on the market price of the Common Shares.

In the past, when the market price of a stock has been volatile, shareholders have often instituted securities class action litigation against that company. If any of our shareholders brought a lawsuit against us, the Company could incur substantial costs defending the lawsuit. The lawsuit could also divert the time and attention of our management.

We have a significant shareholder.

A director of the Company, Dr. John D. Mull, owns 9,923,165 Common Shares, representing 37.0% of the total outstanding Common Shares as of March 18, 2019. If Dr. Mull was to sell his interest in the Company into the public market, or even if the market was to perceive that such a sale may occur, such event might lower the market price of the Common Shares. Dr. Mull's interests as a shareholder may not be aligned at all times with the interests of all of the other shareholders of the Company.

We do not currently intend to pay dividends on our Common Shares.

We have never declared or paid any cash dividend on our Common Shares and do not currently intend to do so for the foreseeable future. We currently anticipate that Cipher will retain future earnings for the development, operation and expansion of our business and do not anticipate declaring or paying any cash dividends for the foreseeable future. Therefore, the success of an investment in our Common Shares will depend upon any future appreciation in their value. There is no guarantee that our Common Shares will appreciate in value or even maintain the price at which our shareholders have purchased their shares. See "Dividends".

Our operating results may fluctuate significantly and any failure to meet financial expectations may disappoint securities analysts or investors and result in a decline in the price of our Common Shares.

Our operating results have fluctuated in the past and are likely to do so in the future. These fluctuations could cause the price of the Common Shares to decline. Some of the factors that could cause operating results to fluctuate include the following:

- the inability to complete product development in a timely manner that results in a failure or delay in receiving the required regulatory approvals or allowances to commercialize product candidates;
- the timing of regulatory submissions and approvals;
- the timing and willingness of any current or future collaborators to invest the resources necessary to commercialize our product candidates, and the timing of payments Cipher may make or receive under these arrangements;
- any intellectual property infringement or other lawsuits in which Cipher may become involved;
- foreign currency fluctuations;
- the timing of achievement and the receipt of milestone payments from current or future third parties;
- failure to enter into new or the expiration or termination of current agreements with third parties;
- failure to introduce the product candidates to the market in a manner that generates anticipated revenues;

- changes in costs and/or reimbursement for the Company's products;
- costs related to business development transactions;
- changes in the amount the Company spends to market its products;
- delays between the Company's expenditures to acquire new products, technologies or businesses and the generation of revenues from those acquired products, technologies or businesses;
- changes in treatment practices of physicians that currently prescribe certain of the Company's products;
- increases in the cost of raw materials used to manufacture the Company's products;
- manufacturing and supply interruptions;
- the Company's responses to price competition;
- inventory has a limited shelf life and may require write-downs
- the timing of wholesaler and distributor purchases; and
- general economic and industry conditions, including potential fluctuations in interest rates.

As a result, the Company believes that quarter-to-quarter comparisons of results from operations, or any other similar period-to-period comparisons, should not be construed as reliable indicators of the Company's future performance. The above factors may cause the Company's operating results to fluctuate and could have a material adverse effect on the Company's business, financial condition and results of operations. In any period, the Company's results may be below the expectations of market analysts and investors, which could cause the trading price of the Common Shares to decline.

Intangible assets represented a significant portion of the Company's total assets. Finite-lived intangible assets are subject to an impairment analysis whenever events or changes in circumstances indicate the carrying amount of the asset may not be recoverable. Indefinite-lived intangible assets are tested for impairment annually, or more frequently if events or changes in circumstances indicate that the asset may be impaired. If an impairment exists, the Company would be required to take an impairment charge with respect to the impaired asset. Events giving rise to impairment are difficult to predict and are an inherent risk in the pharmaceutical industry. Because of the significance of intangible assets, should such an impairment of intangible assets occur, it could have a material adverse effect on the Company's business, financial condition and results of operations. In 2017, the Company recorded an impairment charge of $0.6 million related to the voluntary termination of the Melanovus program and $1.8 million related to Dermadexin and Pruridexin. As at December 31, 2018, the Company's intangible assets are valued at $14.1 million.

All of the Company's debt obligations, and any future indebtedness the Company may incur, will have priority over the Common Shares with respect to payment in the event of a liquidation, dissolution or winding up.

In any liquidation, dissolution or winding up of the Company, the Common Shares would rank below all debt claims against the Company. In addition, any convertible or exchangeable securities or other equity securities that the Company may issue in the future may have rights, preferences and privileges more favourable than those of the Common Shares. As a result, holders of the Common Shares will not be entitled to receive any payment or other distribution of assets upon the liquidation or dissolution until after the Company's obligations to its debt holders and holders of equity securities that rank senior to the Common Shares have been satisfied

Consolidated Financial Statements

December 31, 2018

MANAGEMENT'S RESPONSIBILITY FOR FINANCIAL REPORTING

The accompanying consolidated financial statements of Cipher Pharmaceuticals Inc. ("Cipher") and all the information in this Annual Report are the responsibility of management and have been approved by the Board of Directors (the "Board").

The consolidated financial statements have been prepared by management in accordance with International Financial Reporting Standards ("IFRS"), as issued by the International Accounting Standards Board. When alternative accounting methods exist, management has chosen those it deems most appropriate in the circumstances. Consolidated financial statements are not precise since they include certain amounts based on estimates and judgments. Management has determined such amounts on a reasonable basis in order to ensure that the consolidated financial statements are presented fairly in all material respects. Management has prepared the financial information presented elsewhere in this Annual Report and has ensured that it is consistent with the consolidated financial statements.

Management, under the supervision of the Chief Executive Officer (the "CEO") and the Chief Financial Officer (the "CFO") of Cipher, are responsible for establishing and maintaining adequate internal control over financial reporting, as defined by National Instrument 52-109 - Certification of Disclosure in issuers' Annual and Interim Filings, and have designed such internal control over financial reporting (or caused it to be designed under their supervision) to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the consolidated financial statements in accordance with IFRS.

Management evaluated, under the supervision of and with the participation of the CEO and the CFO, the effectiveness of the Company's internal control over financial reporting as at December 31, 2018, based on the criteria established in Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

Based on that evaluation, the CEO and the CFO concluded that the Company's internal control over financial reporting was effective as at December 31, 2018.

The Board is responsible for ensuring that management fulfills its responsibilities for financial reporting, and is ultimately responsible for reviewing and approving the consolidated financial statements. The Board carries out this responsibility through its Audit Committee (the "Committee").

The Committee is appointed by the Board, and all of its members are independent unrelated directors. The Committee meets periodically with management, as well as with the external auditors, to discuss internal controls over the financial reporting process, auditing matters and financial reporting items, to satisfy itself that each party is properly discharging its responsibilities, and to review the Annual Report, the consolidated financial statements and the external auditors' report. The Committee reports its findings to the Board for consideration when approving the consolidated financial statements for issuance to the shareholders. The Committee also considers, for review by the Board and approval by the shareholders, the engagement or re-appointment of the external auditors.

The consolidated financial statements have been audited by PricewaterhouseCoopers LLP, the external auditors on behalf of the shareholders. PricewaterhouseCoopers LLP has full and free access to the Committee.

(Signed) *"Robert Tessarolo"*

Robert Tessarolo
President and Chief Executive Officer

(Signed) *"Stephen Lemieux"*

Stephen Lemieux, CPA, CA
Chief Financial Officer

Independent auditor's report

To the Shareholders of Cipher Pharmaceuticals Inc.

Our opinion

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the financial position of Cipher Pharmaceuticals Inc. and its subsidiaries (together, the Company) as at December 31, 2018 and 2017 and January 1, 2017 and its financial performance and its cash flows for the years ended December 31, 2018 and 2017 in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board (IFRS).

What we have audited
The Company's consolidated financial statements comprise:

- the consolidated statements of financial position as at December 31, 2018 and 2017 and January 1, 2017;
- the consolidated statements of income and comprehensive income for the years ended December 31, 2018 and 2017;
- the consolidated statements of changes in shareholders' equity for the years ended December 31, 2018 and 2017;
- the consolidated statements of cash flows for the years ended December 31, 2018 and 2017; and
- the notes to the consolidated financial statements, which include a summary of significant accounting policies.

Basis for opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the *Auditor's responsibilities for the audit of the consolidated financial statements* section of our report.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Independence
We are independent of the Company in accordance with the ethical requirements that are relevant to our audit of the consolidated financial statements in Canada. We have fulfilled our other ethical responsibilities in accordance with these requirements.

PricewaterhouseCoopers LLP
PwC Centre, 354 Davis Road, Suite 600, Oakville, Ontario, Canada L6J 0C5
T: +1 905 815 6300, F: +1 905 815 6499

Other information

Management is responsible for the other information. The other information comprises the Management's Discussion and Analysis, which we obtained prior to the date of this auditor's report and the information, other than the consolidated financial statements and our auditor's report thereon, included in the annual report, which is expected to be made available to us after that date.

Our opinion on the consolidated financial statements does not cover the other information and we do not and will not express an opinion or any form of assurance conclusion thereon.

In connection with our audit of the consolidated financial statements, our responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the consolidated financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated.

If, based on the work we have performed on the other information that we obtained prior to the date of this auditor's report, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard. When we read the information, other than the consolidated financial statements and our auditor's report thereon, included in the annual report, if we conclude that there is a material misstatement therein, we are required to communicate the matter to those charged with governance.

Responsibilities of management and those charged with governance for the consolidated financial statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with IFRS, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Company's financial reporting process.

Auditor's responsibilities for the audit of the consolidated financial statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always

detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Company to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

The engagement partner on the audit resulting in this independent auditor's report is Lisa Simeoni.

(Signed) "PricewaterhouseCoopers LLP"

Chartered Professional Accountants, Licensed Public Accountants

Oakville, Ontario
March 18, 2019

Cipher Pharmaceuticals Inc.

Consolidated Statements of Financial Position

As at December 31, 2018, December 31, 2017 and January 1, 2017
(in thousands of United States dollars)

	Note	December 31, 2018	December 31, 2017	January 1, 2017
		$	$	$
ASSETS			Restated Note 3	Restated Note 3
Current assets				
Cash		**10,357**	28,241	34,486
Accounts receivable, trade		**10,470**	21,906	14,644
Inventory	7, 9	**772**	488	1,272
Prepaid expenses and other assets		**1,336**	1,519	1,767
Other receivable	6	**-**	1,700	-
		22,935	53,854	52,169
Property and equipment, net	10	**690**	266	790
Intangible assets, net	7, 11, 12	**14,130**	5,400	17,582
Goodwill	7	**15,706**	-	-
Deferred tax assets	3, 18	**2,225**	3,488	6,690
Total assets		**55,686**	63,008	77,231
LIABILITIES				
Current liabilities				
Accounts payable and accrued liabilities	6, 13	**12,136**	18,705	16,003
Contract liabilities	6, 13	**1,072**	1,651	4,769
Current portion of credit facility	8	**8,069**	6,664	-
		21,277	27,020	20,772
Senior secured notes	8	**-**	-	36,377
Credit facility	8	**9,500**	11,456	-
Derivative financial instrument	8	**19**	549	583
Other long term liabilities		**131**	680	996
Total liabilities		**30,927**	39,705	58,728
SHAREHOLDERS' EQUITY				
Share capital		**18,324**	18,020	16,192
Contributed surplus		**5,324**	4,715	6,024
Accumulated other comprehensive loss		**(9,514)**	(9,514)	(9,514)
Retained earnings	3	**10,625**	10,082	5,801
Total shareholders' equity		**24,759**	23,303	18,503
Total liabilities and shareholders' equity		**55,686**	63,008	77,231
Commitments and Contingencies	20			

The accompanying notes are an integral part of these consolidated financial statements

Approved on behalf of the Board:

(Signed) "Mark Beaudet"

Mark Beaudet
Chair of the Board

(Signed) "Harold Wolkin"

Harold Wolkin
Director

Cipher Pharmaceuticals Inc.

Consolidated Statements of Income and Comprehensive Income

For the years ended December 31
(in thousands of United States dollars, except per share data)

	Note	2018	2017
		$	$
			Restated Note 3
Revenues			
Licensing revenue	3, 15	**15,869**	34,851
Product revenue		**6,880**	5,292
Net revenues		**22,749**	40,143
Operating expenses			
Cost of products sold	9	**2,312**	1,903
Research and development		**561**	394
Selling, general and administrative	16	**14,741**	12,782
Impairment of intangible assets	12	**1,832**	561
Total operating expenses		**19,446**	15,640
Other expenses (income)			
Interest expense	8	**907**	5,300
Change in fair value of derivative financial instrument	8	**(530)**	(34)
Interest income		**(195)**	(8)
Loss on debt extinguishment	8	**-**	5,223
Foreign exchange gain		**(2)**	(66)
Total other expenses		**180**	10,415
Income before income taxes from continuing operations		**3,123**	14,088
Current income tax expense	18	**659**	264
Deferred income tax expense	3, 18	**1,263**	3,199
Total income tax expense		**1,922**	3,463
Income and comprehensive income from continuing operations		**1,201**	10,625
Loss and comprehensive loss from discontinued operations	6	**(658)**	(6,344)
Income and comprehensive income for the year		**543**	4,281
Income from continuing operations per common share	19		
Basic		**0.04**	0.40
Diluted		**0.04**	0.40
Loss from discontinued operations per common share	19		
Basic		**(0.02)**	(0.24)
Diluted		**(0.02)**	(0.24)
Income and comprehensive income per common share	19		
Basic		**0.02**	0.16
Diluted		**0.02**	0.16

The accompanying notes are an integral part of these consolidated financial statements

Cipher Pharmaceuticals Inc.

Consolidated Statements of Changes in Shareholders' Equity

For the years ended December 31
(in thousands of United States dollars)

	Note	Share Capital		Contributed Surplus	Accumulated Other Comprehensive Loss	Retained Earnings	Total Shareholders' Equity
		000's	$	$	$	$	$
						Restated Note 3	
Balance, January 1, 2017		26,313	16,192	6,024	(9,514)	5,801	18,503
Income and comprehensive income for the year		-	-	-	-	4,281	4,281
Exercise of stock options	14	301	1,325	(752)	-	-	573
Shares issued under the share purchase plan	14	34	126	-	-	-	126
Shares issued under the restricted and performance share unit plan	14	73	377	(377)	-	-	-
Share-based compensation recovery	14	-	-	(180)	-	-	(180)
Balance, December 31, 2017		26,721	18,020	4,715	(9,514)	10,082	23,303
Income and comprehensive income for the year		-	-	-	-	543	543
Exercise of stock options	14	1	2	(1)	-	-	1
Shares issued under the share purchase plan	14	58	129	-	-	-	129
Shares issued under the restricted and performance share unit plan	14	41	173	(173)	-	-	-
Share-based compensation expense	14	-	-	783	-	-	783
Balance, December 31, 2018		**26,821**	**18,324**	**5,324**	**(9,514)**	**10,625**	**24,759**

The accompanying notes are an integral part of these consolidated financial statements

Cipher Pharmaceuticals Inc.
Consolidated Statements of Cash Flows

For the years ended December 31
(in thousands of United States dollars)

	Note	2018	2017
		$	$
Cash provided by (used in)			Restated Note 3
Operating activities			
Income for the year from continuing operations		**1,201**	10,625
Items not affecting cash:			
Depreciation of property and equipment	10	**182**	136
Amortization of intangible assets	11	**646**	831
Impairment of intangible assets	12	**1,832**	561
Share-based compensation	14	**802**	338
Foreign exchange loss on cash		**87**	35
Change in fair value of derivative	8	**(530)**	(34)
Loss on debt extinguishment	8	**-**	5,223
Interest expense	8	**907**	5,300
Deferred income taxes	18	**1,263**	3,199
Changes in non-cash operating items:			
Accounts receivable		**11,436**	(9,712)
Inventory		**(276)**	288
Prepaid expenses and other assets		**15**	(79)
Accounts payable and accrued liabilities		**(6,281)**	3,219
Net cash provided by operating activities		**11,284**	19,930
Investing activities			
Purchase of property and equipment		**(128)**	(54)
Acquisition of intangible assets	11	**(6,500)**	(148)
Acquisition of Cardiome	7	**(19,555)**	-
Net cash received from disposal of assets	6	**1,700**	9,339
Net cash provided by (used in) investing activities		**(24,483)**	9,137
Financing activities			
Interest payments	8	**(684)**	(2,374)
Repayment of senior secured notes	8	**-**	(44,500)
Proceeds from credit facility, net	8	**4,892**	19,760
Repayment of credit facility	8	**(5,666)**	(1,666)
Payment of finance lease liability		**(60)**	(37)
Proceeds from shares issued under the share purchase plan		**110**	107
Proceeds from exercise of stock options		**1**	573
Net cash used in financing activities		**(1,407)**	(28,137)
Cash used in discontinued operations	6	**(3,191)**	(7,140)
Decrease in cash		**(17,797)**	(6,210)
Impact of foreign exchange on cash		**(87)**	(35)
Cash, beginning of year		**28,241**	34,486
Cash, end of year		**10,357**	28,241

The accompanying notes are an integral part of these consolidated financial statements

1. NATURE OF OPERATIONS

Cipher Pharmaceuticals Inc. ("Cipher") and its subsidiaries (together the "Company") is a specialty pharmaceutical company with a diversified portfolio of commercial and early to late stage products. The Company acquires products that fulfill unmet medical needs, manages the required clinical development and regulatory approval process, and markets those products either directly in Canada or indirectly through partners in the U.S., Canada and Latin America. The Company is building its business through product licensing and acquisitions. Cipher was incorporated under the Business Corporations Act of Ontario on January 9, 2004 and is located at 209 Oak Park Boulevard, Oakville, Ontario.

On May 1, 2017, the Company, through its wholly owned subsidiary Cipher Pharmaceuticals US LLC ("Cipher U.S.") sold substantially all of the assets of its U.S. segment. The Company no longer directly markets products in the U.S.

2. BASIS OF PREPARATION

The Company prepares its consolidated financial statements in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board ("IFRS"). The Board of Directors approved these consolidated financial statements on March 18, 2019.

The significant accounting policies used in the preparation of these consolidated financial statements are described below.

The consolidated financial statements have been prepared on a going concern basis under the historical cost convention, except for certain financial instruments, which are measured at fair value as described below. Management assesses the Company's ability to continue as a going concern at each reporting date, using quantitative and qualitative information available.

The consolidated financial statements include the accounts of the Company and its wholly owned legal subsidiaries: Cipher US Holdings Inc., Cipher US Holdco LLC, Cipher Pharmaceuticals US LLC and Cardiome Pharma Corp. All significant inter-company balances and transactions have been eliminated upon consolidation.

Discontinued operations

The Company reports financial results for discontinued operations separately from continuing operations to distinguish the financial impact of disposal transactions from ongoing operations. Discontinued operations reporting occurs when the disposal of a component or a group of components of the Company represents a strategic shift that will have major impact on the Company's operations and financial results, and where the operations and cash flows can be clearly distinguished, operationally and for financial reporting purposes, from the rest of the Company.

The results of discontinued operations are excluded from both continuing operations and business segment information in the consolidated financial statements and the notes to the consolidated financial statements, unless otherwise noted, and are presented net of tax in the statement of income and comprehensive income for the current and comparative year. Refer to Note 6 Discontinued Operations.

3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

IFRS 9, *Financial Instruments* – The Company adopted this standard on January 1, 2018. No adjustment to the comparative period was required. Currently, the Company's financial instruments are cash, accounts receivable, accounts payable and accrued liabilities, and its credit facility. With respect to its accounts receivable, historically, the Company's credit losses have been negligible as are past due amounts and therefore no adjustments relating to credit losses were required in the current or comparative period. The Company has adopted the simplified approach to accounting for credit losses.

IFRS 15, *Revenue from Contracts with Customers* – The Company adopted this standard on January 1, 2018 using the full retrospective approach, resulting in a restatement of the 2017 comparative period. No practical expedients have been used.

(In thousands of United States dollars, except per share amounts)

The impact to the comparative consolidated statements of financial position as at January 1, 2017 is as follows:

	Dec 31, 2016 as presented	Adjustment	Jan 1, 2017
	$	$	$
Assets:			
Deferred tax assets	6,864	(174)	6,690
Total assets	77,405	(174)	77,231
Liabilities:			
Current portion of deferred revenue	176	(176)	-
Deferred revenue	487	(487)	-
Total liabilities	59,391	(663)	58,728
Retained earnings	5,312	489	5,801
Total liabilities and shareholders' equity	77,405	(174)	77,231

The impact to the comparative consolidated statements of financial position as at December 31, 2017 is as follows:

	Dec 31, 2017 as presented	Adjustment	Dec 31, 2017 restated
	$	$	$
Assets:			
Deferred tax assets	3,610	(122)	3,488
Total assets	63,130	(122)	63,008
Liabilities:			
Current portion of deferred revenue	177	(177)	-
Deferred revenue	312	(312)	-
Total liabilities	40,194	(489)	39,705
Retained earnings	9,715	367	10,082
Total liabilities and shareholders' equity	63,130	(122)	63,008

The impact to the comparative consolidated statement of income and comprehensive income for the year ended December 31, 2017 is as follows:

	Dec 31, 2017 as presented	Adjustment	Dec 31, 2017 restated
	$	$	$
Licensing revenue	35,028	(177)	34,851
Net revenue	40,320	(177)	40,143
Deferred income tax expense	3,254	(55)	3,199
Income and comprehensive income from continuing operations	10,747	(122)	10,625
Income and comprehensive income for the year	4,403	(122)	4,281
Income and comprehensive income per common share – basic	0.17	(0.01)	0.16
Income and comprehensive income per common share – diluted	0.16	-	0.16

Licensing revenue

Licensing revenue is comprised of upfront payments, pre-commercialization milestones, post-commercialization milestones, royalties and product supply fees. Pre-commercialization milestones, not representing a financing component is deferred and recognized on a straight-line basis over the estimated term that the Company provides services. Post-commercialization milestones, such as sales targets are recognized as revenue when the underlying condition is achieved and is unconditional on any further performance. Otherwise, these milestone payments are recognized as revenue over the remaining term of the underlying agreement or the estimated service term for which the Company maintains contractual obligations. Royalty revenue is recognized in the period in which the Company earns the royalty. Licensing partners report royalty revenue monthly and remit payment within 30 days after each quarter end. Royalty revenue is earned on the net sales reported by the Company's licensing partners. Gross sales are subject to a variety of deductions that are generally estimates and recorded in the same period that the revenues are recognized and primarily represent rebates, discounts and incentives and product returns to arrive at net sales. These deductions represent best estimates by the Company's

licensing partners of the related obligations. Amounts recorded for sales deductions can result from a complex series of judgments about future events and uncertainties and can rely on estimates and assumptions.

Licensing product sales are recognized when the finished products are shipped from Galephar to the Company's licensing partners, at which time control is transferred. Upfront payments, pre-and post-commercialization milestones, royalties and product supply fees represent the Company's 50% share of revenue from agreements with licensing partners, after amounts due to Galephar or other third parties.

Deferred revenue – Prior to the adoption of IFRS 15, deferred revenue represented amounts paid by the Company's licensing partners upon achievement of certain milestones and were amortized over a relevant period. These were determined to be point in time recognition to coincide with the timing of when control was transferred. Therefore, licensing revenue for the year ended December 31, 2017 was reduced by $177. Additionally, the current and long term portion of the deferred revenue on the consolidated statements of financial position were adjusted to opening retained earnings to reflect recognition at the point in time when control was transferred. Accordingly, the Company has restated the consolidated statements of financial position.

Accounting for costs to fulfil a contract – The Company may incur costs to fulfil a contract that are directly related. While there were no such costs incurred in the current period and comparative period, such amounts will be capitalized to prepaids and other assets in the consolidated statements of financial position. The Company has determined that costs to fulfill contracts entered into prior to January 1, 2017 are not significant to the consolidated statements of financial position and statements of income and comprehensive income.

Financing component – Agreements entered into with licensing partners often include an upfront fee upon execution of the agreement. If considered significant in the context of the arrangement, these upfront fees are accounted for as a financing component.

Product revenue

Performance obligations for product sales are primarily satisfied upon delivery of product to the Company's customers, however in a few instances it may be upon shipment. The transaction price is based on list prices that are published annually. Revenue is recorded on a net basis, representing the amounts receivable from customers after the deduction for discounts, returns and early payment discounts. The methodology and assumptions used to estimate discounts, returns and early payments discounts are monitored and adjusted in light of contractual and historical information. Invoices are generated at the time of product shipment and are payable in 30 days.

The provision for returns is a complex estimate used in the recognition of revenue. The Company has a returns policy that allows customers to return product within a specified period prior to and subsequent to the expiration date. Provisions for returns are recognized in the period in which the underlying sales are recognized, as a reduction of product sales revenue. The Company estimates provisions for returns based upon historical experience if applicable, representing management's best estimate. While such experience has allowed for reasonable estimations in the past, history may not always be an accurate indicator of future returns. The Company continually monitors provisions for returns and adjusts when it believes that actual product returns may differ from established reserves.

Contract liabilities – The Company estimates a returns provision upon the sale of its commercial products, which is recorded in contract liability. Commercial products may be returned upon expiry or in unsalable condition when received by its customers.

Translation of foreign currencies

The consolidated financial statements are presented in United States dollars ("U.S. dollars"), which is the Company's functional currency. Revenues and expenses denominated in foreign currencies are translated into U.S. dollars using the exchange rate in effect at the transaction date.

Monetary assets and liabilities are translated using the rate in effect at the balance sheet date and non-monetary items are translated at historical exchange rates. Related exchange gains and losses are included in the consolidated statement of income and comprehensive income.

Business combinations

The acquisition of Cardiome Pharma Corp. ("Cardiome") in May 2018 has been accounted for as a business combination using the acquisition method. The consideration transferred in a business combination is measured at fair value at the date of acquisition. Acquisition-related transaction costs are recognized in the consolidated statements of income and comprehensive income as incurred. At the acquisition date, the identifiable assets acquired, and the liabilities assumed are initially recognized at their fair value. Goodwill is measured as the excess of the sum of the consideration transferred and the fair value of the acquirer's previously held equity interest in the acquiree (if any) over the net of the acquisition-date amounts of the identifiable assets acquired and liabilities assumed. When the consideration transferred by the Company in a business combination includes assets or liabilities resulting from a contingent consideration arrangement, the contingent consideration is measured at its acquisition-date fair value and included as part of the consideration transferred in a business combination. Measurement period adjustments are adjustments that arise from additional

information obtained during the 'measurement period' (which cannot exceed one year from the acquisition date) about facts and circumstances that existed at the acquisition date. Other than measurement period adjustments, contingent consideration that is classified as a financial asset or a financial liability is remeasured at subsequent reporting dates, with the corresponding gain or loss being recognized in the consolidated statements of income and comprehensive income.

The Company assesses whether an acquisition should be accounted for as an asset acquisition or business combination under IFRS 3, *Business Combinations* ("IFRS 3"). This assessment requires management to make judgements on whether the assets acquired and liabilities assumed constitute a business as defined in IFRS 3 and if the integrated set of activities, including inputs, processes acquired, is capable of being conducted and managed as a business and the Company obtains control of the business.

Goodwill

Goodwill arises on business combinations and represents the excess of the consideration transferred over the fair value of the identifiable net assets acquired. For the purpose of impairment testing, goodwill acquired in a business combination is allocated to each of the CGUs, or groups of CGUs, that is expected to benefit from the synergies of the combination. Each unit or group of units to which the goodwill is allocated represents the lowest level within the Company at which the goodwill is monitored for internal management purposes. Goodwill impairment reviews are undertaken annually or more frequently if events or changes in circumstances indicate a potential impairment. The carrying value of the groups of CGUs which contains goodwill is compared to the recoverable amount, which is the higher of value in use and the fair value less costs of disposal. Any impairment is recognized immediately as an expense and is not subsequently reversed.

Financial instruments

Financial assets and liabilities are recognized when the Company becomes a party to the contractual provisions of the instrument. Financial assets are derecognized when the rights to receive cash flows from the assets have expired or have been transferred and the Company has transferred substantially all risks and rewards of ownership. Financial assets and liabilities are offset, and the net amount reported in the balance sheet, when there is a legally enforceable right to offset the recognized amounts and there is an intention to settle on a net basis or realize the asset and settle the liability simultaneously.

At initial recognition, the Company classifies its financial instruments in the following categories depending on the purpose for which the instruments were acquired:

i) Financial assets and liabilities at fair value through profit or loss: A financial asset or liability is classified in this category if acquired principally for the purpose of selling or repurchasing in the short term. The Company's derivative financial instrument is classified as a financial liability at fair value though profit and loss. Financial instruments in this category are recognized initially and subsequently at fair value. Transaction costs are expensed in the statements of income and comprehensive income. Gains and losses arising from changes in fair value are presented in the statements of income and comprehensive income in the period in which they arise.

ii) Available-for-sale investments: These investments are non-derivatives that are either designated in this category or not classified in any of the other categories. The Company does not have any instruments classified in this category. Available-for-sale investments are recognized initially at fair value plus transaction costs and are subsequently carried at fair value. Gains or losses arising from changes in fair value are recognized in other comprehensive income. When an available-for-sale investment is sold or impaired, the accumulated gains or losses are moved from accumulated other comprehensive income to the statement of income and comprehensive income and are included in other gains and losses.

iii) Loans and receivables: These are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market. The Company's loans and receivables comprise cash and accounts receivable and are included in current assets due to their short-term nature. Loans and receivables are initially recognized at the amount expected to be received less, when material, a discount to reduce the loans and receivables to fair value. Subsequently, loans and receivables are measured at amortized cost using the effective interest method less a provision for impairment, if needed.

iv) Financial liabilities at amortized cost: This classification includes accounts payable and accrued liabilities, the senior secured notes (the "Notes") and the credit facility. Financial liabilities at amortized cost are initially recognized at the amount required to be paid less, when material, a discount to reduce the payables to fair value. Subsequently, financial liabilities at amortized cost are measured at amortized cost using the effective interest rate method. Financial liabilities are classified as current liabilities if payment is due within twelve months. Otherwise, they are presented as non-current liabilities.

Fair value of financial instruments

Fair value is defined as the price that would be received from the sale of an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The best evidence of fair value is quoted bid or ask prices in an active market. Quoted prices are not always available for over-the-counter transactions, as well as transactions in inactive or illiquid markets. In these

instances, pricing models, normally with observable market based inputs, are used to estimate fair value. Financial instruments traded in a less active market have been valued using indicative market prices, present value or other valuation techniques. Where financial instruments trade in inactive markets or when using models where observable parameters do not exist, greater management judgement is required for valuation purposes. In addition, the calculation of estimated fair value is based on market conditions at a specific point in time and therefore may not be reflective of future fair values.

Determination of fair value

The Company categorizes its fair value measurements according to a three-level hierarchy. The hierarchy prioritizes the inputs used by the Company's valuation techniques. A level is assigned to each fair value measurement based on the lowest level input significant to the fair value measurement in its entirety. The three levels of the fair value hierarchy are defined as follows:

Level 1 – Unadjusted quoted prices at the measurement date for identical assets or liabilities in active markets.

Level 2 – Observable inputs other than quoted prices included in Level 1, such as quoted prices for similar assets and liabilities in active markets; quoted prices for identical or similar assets and liabilities in markets that are not active; or other inputs that are observable or can be corroborated by observable market data.

Level 3 – Significant unobservable inputs that are supported by little or no market activity.

At December 31, 2018, the Company's financial instruments consisted of cash, accounts receivable, accounts payable and accrued liabilities, the credit facility and a derivative financial instrument. The derivative financial instrument is measured at fair value with any changes recognized through the statements of income and comprehensive income and is classified as Level 2. Cash, accounts receivable, accounts payable and accrued liabilities and the credit facility are measured at amortized cost and their fair values approximate carrying values.

Impairment of financial assets

At each reporting date, the Company assesses whether there is objective evidence that a financial asset is impaired. If such evidence exists, the Company recognizes an impairment loss. Impairment losses on financial assets carried at amortized cost are reversed in subsequent periods if the amount of the loss decreases and the decrease can be related objectively to an event occurring after the impairment was recognized.

Cash

Cash includes deposits held with banks.

Accounts receivable

Accounts receivable consist of amounts due from licensing partners for royalties and product sales in the normal course of business. Trade receivables are carried at amounts due, net of expected lifetime credit losses.

Inventory

Inventory, which is comprised of finished goods and raw materials, is valued at the lower of cost and net realizable value. Cost is determined using the weighted-average cost method. Net realizable value is the estimated selling price less applicable selling cost. If the carrying value exceeds net realizable amount, a provision is recognized. The provision may be reversed in a subsequent period if the circumstances which caused the write down no longer exists.

Prepaid expenses and other assets

Prepaid expenses consist of amounts paid in advance for items that have future value to the Company, such as insurance policy payments, subscription-based fees, U.S. Food and Drug Administration ("FDA") fees and deposits.

Property and equipment

Property and equipment are recorded at historical cost less accumulated depreciation and accumulated impairment losses. The useful lives of property and equipment are reviewed at least annually, and the depreciation charge is adjusted for prospectively. Depreciation is computed using the straight-line method, over the following estimated useful lives of the assets or lease terms:

Computer equipment	3 years
Vehicles	4 years
Furniture and fixtures	5 years
Leasehold improvements	over the term of the lease

Intangible assets

Intangible assets include product rights that consist of marketing and other rights relating to products and licensing rights and these are recorded at cost less accumulated amortization and accumulated impairment losses. Intangible assets have a finite life and are amortized using the straight-line method over their estimated useful lives. The useful lives of the intangible assets are reviewed at least annually. Amortization is recognized straight-line over the contract term or life of the patent, as applicable.

Impairment of non-financial assets

Indefinite-lived intangible assets or intangible assets not ready to use are tested at least annually for impairment or when indicators of impairment exist. Intangible assets subject to amortization are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs of disposal and value in use. For the purposes of assessing impairment, assets are grouped at the lowest levels for which there are largely independent cash inflows (CGU). Prior impairments of non-financial assets (other than goodwill) are reviewed for possible reversal at each reporting date.

Share capital

Common shares are classified as equity. Incremental costs directly attributable to the issuance of shares are recognized as a deduction from equity.

Cost of products sold

Cost of products sold includes the cost of finished goods, royalties to license holders, inventory provisions, distribution costs and direct overhead expenses necessary to acquire the finished goods.

Research and development

The Company conducts research and development programs and incurs costs related to these activities, including employee compensation, materials, professional services and services provided by contract research organizations. Research and development costs, net of related tax credits and contractual reimbursements from development partners, are expensed in the periods in which they are incurred.

Income taxes

Income tax comprises current and deferred tax. Current tax is the expected tax payable on the taxable income for the year using tax rates enacted or substantively enacted at the end of the reporting period and any adjustment to tax payable in respect of previous years.

Deferred tax is recognized in respect of temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the consolidated financial statements. Deferred income tax is determined on a non-discounted basis using tax rates and laws that have been enacted or substantively enacted at the consolidated statement of financial position date and are expected to apply when the deferred tax asset or liability is settled.

Deferred tax assets are recognized to the extent that it is probable that the assets can be recovered.

Stock-based compensation

The fair value of options granted to employees and directors is estimated on the date of the grants using the Black-Scholes option pricing model. Stock options vest over four years (25% per year) for both employees and directors, and expire after seven or ten years and can only be settled in common shares. Each tranche in an award is considered as a separate award with its own vesting period and grant date fair value. Share-based compensation expense is recognized over the tranche's vesting period based on the number of awards expected to vest, by increasing contributed surplus. The number of awards expected to vest is reviewed annually, with any impact being recognized immediately. Stock option forfeitures are estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Share-based compensation expense is included within the respective functional departments in operating expenses in the statements of income and comprehensive income and in contributed surplus in the statements of financial position. The consideration received on the exercise of stock options is credited to share capital at the time of exercise.

Restricted share units ("RSUs") are notional common shares of the Company to be issued to employees and directors of the Company. RSUs vest three years from the date of grant (one third per year) or four years from the grant date (one quarter per year) for employees and vest over one year for board of directors and can only be settled in common shares. The Company amortizes the fair value of the RSUs over the service period of the individual RSU grant, which generally equals the vesting period. RSU forfeitures are estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates.

Performance share units ("PSUs") are notional common shares of the Company issued to senior employees of the Company. The fair value of PSU's granted to employees is estimated on the date of grant using a Monte Carlo simulation. PSUs cliff vest two or three years from the date of grant and can only be settled in common shares. Awards of PSUs are dependent upon the achievement of

performance targets set by the Board of Directors for a two or three year period. Compensation expense is recognized over the three year vesting period for the PSUs based on the progress towards achieving the performance targets.

Leases

Leases are classified as finance leases whenever the terms of the lease transfer substantially all the risks and rewards of ownership to the Company. All other leases are classified as operating leases. The capitalized finance lease obligation reflects the present value of future lease payments, discounted at the appropriate interest rate. Assets under finance leases are amortized over the term of the lease.

All other leases are accounted for as operating leases with rental payments being expensed on a straight-line basis.

Termination benefits

The Company recognizes termination benefits when it is demonstrably committed to either terminating the employment of current employees according to a detailed formal plan without possibility of withdrawal or providing benefits as a result of an offer made to encourage voluntary termination. Benefits falling due more than twelve months after the end of the reporting period are discounted to their present value.

Earnings per share

Basic earnings per share ("EPS") is calculated using the treasury stock method, by dividing the net income (loss) for the year by the weighted average number of common shares outstanding during the year. Diluted EPS is calculated by adjusting the weighted average number of common shares outstanding for dilutive instruments.

Accounting standards issued but not yet adopted

IFRS 16, *Leases*: On January 13, 2016, the IASB published a new standard, IFRS 16. The new standard will eliminate the distinction between operating and finance leases and will bring most leases onto the consolidated statements of financial position for lessees. This standard is effective for annual reporting periods beginning on or after January 1, 2019. The Company intends to adopt IFRS 16 in its consolidated financial statements for the annual period beginning January 1, 2019. The Company is analyzing the new standard to determine its impact on the Company's consolidated statements of financial position and consolidated statements of income and comprehensive income. The Company expects to adopt IFRS 16 using the modified retrospective transition method. Further, the Company currently expects to apply the following practical expedients: (i) grandfather the assessment of which transactions are leases; (ii) recognition exemption of short-term leases; and (iii) recognition exemption leases of low-value items.

International Financial Reporting Interpretations Committee (IFRIC), Uncertainty over Income Tax Treatments (IFRIC 23): In June 2017, the IASB issued IFRIC 23, Uncertainty over Income Tax Treatments, with a mandatory effective date of January 1, 2019. The interpretations provide guidance on how to value uncertain income tax positions based on the probability of whether the relevant tax authorities will accept the Company's tax treatments. A company is to assume that a taxation authority with the right to examine any amounts reported to it will examine those amounts and will have full knowledge of all relevant information when doing so. IFRIC 23 is to be applied by recognizing the cumulative effect of initially applying these guidelines in opening retained earnings without adjusting comparative information. The Company has assessed that there will be no financial statement impact upon adoption on January 1, 2019.

Other accounting standards or amendments to existing accounting standards that have been issued, but have future effective dates, are either not applicable or are not expected to have a significant impact on the Company's consolidated financial statements.

4. CRITICAL ACCOUNTING ESTIMATES AND JUDGMENTS

The Company makes estimates and judgments concerning the future that will, by definition, seldom equal actual results. The following are the critical estimates and judgments applied by management that most significantly affect the Company's consolidated financial statements. The critical estimates and judgments that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below.

i) Returns: The provision for returns is a complex estimate used in the recognition of revenue. The Company has a returns policy that allows wholesalers to return product within a specified period prior to and subsequent to the expiration date. Provisions for returns are recognized in the period in which the underlying sales are recognized, as a reduction of product sales revenue. The Company estimates provisions for returns based upon historical experience, representing management's best estimate. While such experience has allowed for reasonable estimations in the past, history may not always be an accurate indicator of future returns. The Company continually monitors provisions for returns and makes adjustments when it believes that actual product returns may differ from established reserves.

ii) Deferred income taxes: Management uses estimates when determining deferred income assets. These estimates are used to determine the recoverability of non capital tax loss carry forward amounts, research and development expenditures and

investment tax credits. Significant judgment is required to determine the probable future cash flows in order to recognize the deferred tax asset. Changes in market conditions, changes in tax legislation, patent challenges and other factors, including the approval or launch of generic versions of any of the Company's products, could adversely affect the ongoing value of deferred tax assets. The carrying amount of deferred income tax assets is reassessed at each reporting period and reduced to the extent that it is no longer probable that sufficient taxable income will be available to utilize all or part of the deferred income tax assets. Unrecognized deferred income tax assets are reassessed at each reporting period and are recognized to the extent that it is probable that there will be sufficient taxable income for the asset to be recovered.

iii) Share-based compensation: The option pricing model used to determine the fair value of share-based payments requires various estimates relating to volatility, interest rates, dividend yields and expected life of the options granted. Fair value inputs are subject to market factors as well as internal estimates. The Company considers historic trends together with any new information to determine the best estimate of fair value at the date of grant. Separate from the fair value calculation, the Company is required to estimate the expected forfeiture rate of equity-settled share-based payments.

iv) Estimated useful lives of intangible assets: Management estimates the useful lives of intangible assets based on the period during which the assets are expected to be available for use and also estimates their recoverability to assess if there has been an impairment. The amounts and timing of recorded expenses for amortization and impairments of intangible assets for any period are affected by these estimates. The estimates are reviewed at least annually and are updated if expectations change as a result of technical or commercial obsolescence, generic threats and legal or other limits to use. It is possible that changes in these factors may cause significant changes in the estimated useful lives of the Company's intangible assets in the future.

v) Impairment of non-financial assets: The Company reviews indefinite-lived, not ready for use and amortized non-financial assets for impairment either annually or whenever events or changes in circumstances indicate that the carrying amount of the assets may be impaired. If the recoverable amount of the respective non-financial asset is less than its carrying amount, it is considered to be impaired. In the process of measuring the recoverable amount, management makes assumptions about future events and circumstances. The actual results may vary and may cause significant adjustments.

vi) Accounting for business combinations: The Company assesses whether an acquisition should be accounted for as an asset acquisition or a business combination under IFRS 3. This assessment requires management to make judgements on whether the assets acquired, and liabilities assumed constitute a business as defined in IFRS 3 and if the integrated set of activities, including inputs, processes acquired, is capable of being conducted and managed as a business and the Company obtains control of the business. The Company's acquisition of Cardiome was accounted for as a business combination (Note 7) and all other acquisitions (Note 11) were accounted for as asset acquisitions.

vii) Functional currency: Management uses judgment when determining its functional currency. This determination includes an assessment of the indicators as prescribed in IAS 21, *The Effects of Changes on Foreign Exchange Rates* ("IAS 21"). However, applying the factors in IAS 21 does not always result in a clear indication of functional currency. Where IAS 21 factors indicate differing functional currencies, management uses judgment in the ultimate determination of the functional currency.

5. RISK MANAGEMENT

Financial risk management

In the normal course of business, the Company is exposed to a number of financial risks that can affect its operating performance. These risks are: credit risk, liquidity risk, market risk, interest rate risk and capital management risk. The Company's overall risk management program and business practices seek to minimize any potential adverse effects on the Company's financial performance.

i) Credit risk

Credit risk is the risk of a financial loss to the Company if a customer or counterparty to a financial instrument fails to meet its contractual obligation. Financial instruments that potentially expose the Company to significant concentration of credit risk consist of cash and accounts receivable. The Company's investment policies are designed to mitigate the possibility of deterioration of principal, enhance the Company's ability to meet its liquidity needs and provide high returns within those parameters. Cash is on deposit with Canadian and U.S. chartered banks. Management monitors the collectability of accounts receivable and other receivables and estimates an allowance for doubtful accounts.

As at December 31, 2018, the expected lifetime credit losses for receivable aged as current was de minimus (2017 – de minimus) and the accounts that were past due was nil (2017 – nil).

(in thousands of United States dollars, except per share amounts)

The Company has concentration risk, as approximately 92% of total revenue came from four customers and approximately 88% of total accounts receivable is due from two customers.

ii) Liquidity risk

Liquidity risk is the risk that the Company will encounter difficulties in meeting its financial liability obligations as they become due. The Company has a planning and budgeting process in place to help determine the funds required to support the Company's normal operating requirements on an ongoing basis.

The Company has financed its cash requirements primarily through operations and its credit facility. The Company controls liquidity risk through management of working capital, cash flows and the availability and sourcing of financing.

The Company has financial covenants in its credit facility that are based on predefined trailing adjusted earnings before interest, taxes, depreciation and amortization ("EBITDA") formula. The Company's adjusted EBITDA is subject to significant fluctuations based on revenue from its licensing business. A decline in licensing revenue could cause the Company to breach on one or more covenants.

The Company anticipates that its current cash, together with the cash flow that is generated from operations will be sufficient to execute its current business plan for 2019 and meet its debt obligations.

The following table outlines the Company's undiscounted contractual obligations as at December 31, 2018.

Description	Less than one year	Years two and three	Beyond three years	Total
	$	$	$	$
Accounts payable and accrued liabilities	12,055	-	-	12,055
Finance lease obligations	91	117	26	234
Credit facility	8,069	9,668	-	17,737
Total	20,215	9,785	26	30,026

The current portion of finance lease obligations are recorded at the net present value of $81 (2017 – $47) in accounts payable and accrued liabilities. The non-current portion of the finance lease obligation of $131 (2017 – $69) is recorded in other long term liabilities. The weighted average discount rate used for the finance lease obligations was approximately 4.05% (2017 – 3.25%).

iii) Market risk

Currency risk – The Company is exposed to currency risk related to the fluctuation of foreign exchange rates. The Company operates primarily in U.S. dollars. The Company is exposed to currency risk through its net assets denominated in Canadian dollars ("CDN$"). A change of 10 basis points in the U.S./CDN exchange rate on December 31, 2018 balance would have had a $243 impact on income and comprehensive income. The following is a summary of the net financial assets denominated in Canadian dollars as of December 31, 2018:

	CDN$
Cash	1,798
Accounts receivable	1,243
Accounts payable and accrued liabilities	(5,178)
Finance lease obligations	(289)
Net financial liabilities	(2,426)

iv) Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The credit facility bears interest that is pegged to LIBOR and as such is subject to interest rate cash flow risk resulting from market fluctuations in interest rates. A change of 100 basis points in the LIBOR would increase the annual interest expense by $199.

v) Capital risk management

The Company's managed capital is comprised of cash, the credit facility and shareholders' equity. The Company's objective when managing its capital structure is to safeguard its ability to continue as a going concern in order to provide returns for shareholders, finance strategic growth plans and financial obligations as they become due. In order to maintain or adjust the capital structure, the

(In thousands of United States dollars, except per share amounts)

Company may issue new common shares from time to time. The Company relies on cash on hand, cash flows from operations and debt financing to finance growth initiatives.

6. DISCONTINUED OPERATIONS

On May 1, 2017, the Company entered into an Asset Purchase Agreement (the "U.S. APA") and completed the sale of substantially all of the assets comprising the U.S. segment. In accordance with the terms of the U.S. APA, the purchase price of $13,600 was subject to customary working capital adjustments and other transferred liabilities as defined in the U.S. APA**.** The Company retained responsibility for certain liabilities and commitments. On closing, the Company received $7,619 in cash. In the fourth quarter of 2017, the additional regulatory milestone of $740, net of administrative costs was achieved.

The terms of the U.S. APA included a hold back of $1,700 recorded as other receivable on the consolidated statements of financial position, which was settled on November 1, 2018 in full. The total cash consideration received was $11,039.

The following table summarizes the balances retained by the Company as at December 31, 2018, which are included in the consolidated statements of financial position:

	$
Accounts payable and accrued liabilities	1,223
Contract liabilities (Note 13)	1,031
Total	2,254

Accounts payable and accrued liabilities includes provisions for onerous contracts and amounts due to former customers for product returns. The contract liabilities reflect future product returns that were retained by the Company.

A reconciliation of the major classes of line items constituting income from discontinued operations, net of tax, as presented in the consolidated statements of income and comprehensive income is as follows:

	Dec 31, 2018	Dec 31, 2017
	$	$
Net revenues	**(576)**	1,339
Operating expenses	**82**	8,756
Loss before gain on disposal	**658**	7,417
Gain on disposal	**-**	(1,073)
Loss before income taxes	**658**	6,344
Income taxes	**-**	-
Loss and comprehensive loss from discontinued operations	**658**	6,344

Disclosures with respect to the consolidated statements of cash flows are as follows:

	Dec 31, 2018	Dec 31, 2017
	$	$
Net cash flows attributable to:		
Operating activities	**(3,191)**	(7,132)
Investing activities	**-**	(8)
Cash used in discontinued operations	**(3,191)**	(7,140)

7. ACQUISITION OF CARDIOME PHARMA CORP

On May 15, 2018, the Company acquired the Canadian business portfolio of Cardiome by acquiring all of the issued and outstanding common shares of Cardiome (the "Acquisition") pursuant to the terms and conditions of a definitive arrangement agreement (the "Arrangement Agreement") entered into among Cipher, Cardiome and Correvio Pharma Corp. ("Correvio") on March 19, 2018. Upon completion of the acquisition, Cardiome became a wholly owned subsidiary of the Company. The Canadian business portfolio acquired

(in thousands of United States dollars, except per share amounts)

by the Company includes commercial and pipeline hospital products administered in the acute care setting. The Company acquired Cardiome as part of its ongoing efforts to diversify its product base.

The total purchase price of CDN$25,500 ($19,922) of which CDN$24,500 ($19,141) was paid in cash on closing and a holdback of CDN$1,000 ($781) is payable in four equal installments quarterly from the date of the agreement. As at December 31, 2018, the holdback balance is CDN$500 ($386) and is recognized in accounts payable and accrued liabilities on the consolidated statements of financial position. Total transaction costs incurred were $589, which are recorded in SG&A in the consolidated statements of income and comprehensive income.

The following table presents the fair value of the assets acquired and liabilities assumed at the date of the acquisition.

	$
Purchase price	19,922
Inventory	8
Intangible assets	4,208
Goodwill	15,706

Goodwill represents the Cardiome's non capital losses, investment tax credits and scientific research and experimental development ("SR&ED") expenditures that Cipher intends to use as a result of carrying on the former Cardiome business. The goodwill recognized is expected to be non-deductible for income tax purposes. The purchase price allocation includes a deferred tax liability of $384 in relation to the intangible assets acquired, however a deferred tax asset has been recognized to the same extent.

Intangible assets represent product and licensing rights, where the Company has exclusivity in Canada. An assigned licensing right includes a milestone payment of $1,000 upon launching the product and revenue milestones upon achieving a specified level of sales in a calendar year.

Had Cardiome been consolidated from January 1, 2018, the consolidated statements of income and comprehensive income would show pro forma revenue of $22,787 and income and comprehensive income of $1,050.

8. SENIOR SECURED NOTES AND CREDIT FACILITY

In March 2017, the Company entered into its sixth amendment to the Securities Purchase Agreement (the "Amendment") with its lender to amend the terms of the Notes under the original Securities Purchase Agreement (the "Original SPA"), dated April 13, 2015. In connection with the Amendment, the Company prepaid $20,000 of the outstanding Notes balance on April 5, 2017. The Amendment was accounted for as an extinguishment, as the terms of the amended agreement were substantially different. Therefore, the unamortized costs related to the Notes were accelerated and recognized as part of the loss on extinguishment. In addition, on April 5, 2017, the Company paid the 5% borrowing fee of $1,000, the 5% prepayment penalty of $1,000 and an amendment fee of $500. In consideration for the prepayment, the lender modified the financial covenants and removed its security interest in the U.S. segment assets.

In November 2017, the Company entered into a credit agreement, with a Canadian lender to extinguish its existing Notes and replace with a credit facility. In connection with the credit agreement, the Company used the proceeds of $20,000 to fully extinguish the remaining balance of the Notes. Pursuant to the Original SPA, the Company paid a prepayment penalty of $1,000 and a borrowing fee of $1,000. The credit facility has a three-year term, carrying an interest rate of LIBOR plus an applicable margin ranging from 1.5% - 2.5% based on the total debt to EBITDA ratio, as defined in the credit agreement. Principal and interest payments are payable quarterly in arrears. The facility also carries an accordion feature that allows for an additional $10,000 of capacity, subject to customary terms and conditions. The Company is subject to certain financial and non-financial covenants. as defined in the credit agreement. The credit facility is secured by the assets of the Company. The total transaction costs incurred were $240. The interest rate applicable in the fourth quarter of 2018 was 4.11%. The effective interest rate was 4.18%.

On May 15, 2018, concurrent with the acquisition of Cardiome, the Company drew $5,000 from its existing credit facility. Net of transaction costs of $108, the amount recorded to the consolidated statement of financial position was $4,892. As a result, the scheduled quarterly payments increased from $1,666 to $2,000, however both the principal and interest payments due on June 30, 2018 were

(In thousands of United States dollars, except per share amounts)

waived and are payable upon maturity. There was no corresponding change in the interest rate terms or term of the credit facility. Subsequent to the drawdown, the accordion was reset to $10,000.

The following is the continuity of the credit facility for the year ended December 31, 2018:

	$
Balance, January 1, 2017	
Proceeds, net	19,760
Interest expense	92
Interest paid	(92)
Imputed interest accretion	26
Repayment	(1,666)
Balance, January 1, 2018	18,120
Proceeds, net	4,892
Interest expense	753
Interest paid	(684)
Imputed interest accretion	154
Repayments	(5,666)
Balance, December 31, 2018	**17,569**
Current portion	8,069
Long term portion	9,500

The following is the continuity of the Notes from January 1, 2017 until extinguishment on November 3, 2017:

	$
Balance, January 1, 2017	36,377
Interest expense	2,282
Interest paid	(2,282)
Prepayment penalty	1,000
Imputed interest accretion	1,900
Loss on extinguishment	5,223
Repayment	(44,500)
Balance, December 31, 2017	-

Derivative financial instrument

Under the terms of the Original SPA, the Company issued 600,000 common share purchase warrants to the lender with an option for a cashless exercise in which the settlement price caused the conversion ratio to be variable. Accordingly, the warrants are classified as a financial liability. Gains and losses on re-measurement are presented separately in the consolidated statements of income and comprehensive income. The exercise price of the warrants is $9.22 (equal to the five-day volume-weighted average price on the Toronto Stock Exchange prior to closing, converted to U.S. dollars), which expire seven years from the date of issuance. A pricing model with observable market-based inputs was used to estimate the fair value of the warrants issued. The estimated fair value of the warrants as at December 31, 2018 and December 31, 2017 were $19 and $549, respectively.

The variables used to compute the fair value are as follows:

	Dec 31, 2018	Dec 31, 2017
Share price	**$1.25**	$3.91
Expected life	**3.2 years**	4.2 years
Volatility	**55.3%**	56.4%

(in thousands of United States dollars, except per share amounts)

9. INVENTORY

Inventory consists of the following:

	Dec 31, 2018	Dec 31, 2017
	$	$
Finished goods	**1,114**	836
Obsolescence provision	**(342)**	(348)
	772	488

Inventory amounts recorded to cost of products sold during the year is $1,638 (2017 – $1,409). There was a reversal of inventory obsolescence provision of nil (2017 – reversal of $18) recorded directly to cost of products sold. The reversal arose from certain product sales that exceeded the budget to which the provision was originally based upon.

10. PROPERTY AND EQUIPMENT

	Computer equipment	**Vehicles**	**Furniture and fixtures**	**Leasehold improvements**	**Total**
Cost	$	$	$	$	$
Balance, December 31, 2016	435	176	458	104	1,173
Additions	46	33	6	2	87
Disposals	-	(24)	-	-	(24)
Disposal of U.S. segment	(234)	-	(320)	(43)	(597)
Balance, December 31, 2017	247	185	144	63	639
Additions	74	166	-	377	617
Disposals	-	(23)	-	-	(23)
Balance, December 31, 2018	**321**	**328**	**144**	**440**	**1,233**
Accumulated depreciation					
Balance, December 31, 2016	223	28	102	30	383
Depreciation	43	44	30	19	136
Disposals	-	(5)	-	-	(5)
Disposal of U.S. segment	(74)	-	(62)	(5)	(141)
Balance, December 31, 2017	192	67	70	44	373
Depreciation	36	56	71	19	182
Disposals	-	(12)	-	-	(12)
Balance, December 31, 2018	**228**	**111**	**141**	**63**	**543**
Net book value					
As at December 31, 2017	55	118	74	19	266
As at December 31, 2018	**93**	**217**	**3**	**377**	**690**

Depreciation expense of $182 (2017 – $136) is recorded in SG&A in the consolidated statements of income and comprehensive income.

The disposal of the U.S. segment includes property and equipment that was sold with a net book value of $100, write offs of property and equipment of $309 which were impaired after the sale and depreciation expense for the period prior to the sale of $47. As at December 31, 2018, $323 (2017 – nil) is included in accounts payable and accrued liabilities for the acquisition of property and equipment.

(In thousands of United States dollars, except per share amounts)

11. INTANGIBLE ASSETS

In 2017, the Company received a Notice of Compliance from Health Canada, approving the sale of OZANEX™. The Company paid a $148 development milestone to Ferrer upon obtaining regulatory approval in Canada. Under this agreement, all milestones have been paid.

On February 27, 2018, the Company acquired the exclusive Canadian rights to market, distribute and sell Trulance®, an FDA approved product. Under the terms of the licensing agreement, the Company paid an upfront payment of $5,000 upon execution of the agreement. The transaction includes a regulatory milestone payment of $750 and royalties on net product sales in Canada.

On April 5, 2018, the Company acquired the exclusive Canadian rights to distribute and commercialize A-101. A-101 is an FDA approved topical product. Under the terms of the licensing agreement, the Company paid an upfront payment of $1,000 and upon achievement of certain milestone events, will pay additional regulatory and commercial milestone payments of up to $2,750, as well as royalties from net product sales in Canada. As at December 31, 2018, a regulatory achievement milestone of $500 is recorded in accounts payable and accrued liabilities on the consolidated statements of financial position.

On September 18, 2018, the Company acquired the exclusive Canadian rights to distribute and commercialize MOB-015. Under the terms of the licensing agreement, the Company made an upfront payment of $500 and will pay additional development, regulatory and sales milestones of up to $14,050 upon achievement of predetermined targets.

	Licensing and intellectual property rights
Cost	$
Balance, December 31, 2016	55,850
Additions	148
Impairment (Note 12)	(698)
Disposal of U.S. segment (Note 6)	(41,919)
Balance, December 31, 2017	13,381
Additions	7,000
Additions related to business combination (Note 7)	4,208
Impairment (Note 12)	(2,792)
Balance, December 31, 2018	**21,797**
Accumulated amortization and impairment	
Balance, December 31, 2016	38,268
Amortization	831
Impairment (Note 12)	(137)
Disposal of U.S. segment (Note 6)	(30,981)
Balance, December 31, 2017	7,981
Amortization	646
Impairment (Note 12)	(960)
Balance, December 31, 2018	**7,667**
Net book value	
As at December 31, 2017	5,400
As at December 31, 2018	**14,130**

Amortization expense of $646 (2017 – $831) is recorded to SG&A in the consolidated statements of income and comprehensive income. The average remaining amortization period of the intangible assets is approximately 9.4 years.

The disposal of the U.S. segment includes amortization expense of $553 recorded prior to its classification of held for sale and intangible assets sold in the disposal of the U.S. segment with a net book value of $10,385.

(in thousands of United States dollars, except per share amounts)

12. IMPAIRMENT OF INTANGIBLE ASSETS

In 2017, the Company completed its assessment of the Melanovus oncology assets acquired in 2014 and decided not to continue with this program. Accordingly, the Company wrote off the net book value of these assets in the amount of $561 in operating expenses in the consolidated statements of income and comprehensive income.

In 2018, the Company re-assessed its efforts to out license its Astion assets acquired in 2015 and decided not to continue to actively pursue partners for Dermadexin and Pruridexin products in this portfolio. Accordingly, the Company wrote off the net book value of these assets in the amount of $1,832 in operating expenses in the consolidated statements of income and comprehensive income.

13. CONTRACT LIABILITIES

Contract liabilities relate to estimates made for product returns for our Canadian operations and our discontinued U.S. operations. The provision for product returns relates to potential returns due to expiration or other return rights under the terms of distribution and supply agreements with customers, taking into account historical returns. The adequacy of the contract liabilities is evaluated based on product sales activity and estimates of expiring products in the distribution chain.

The following is the continuity of the contract liabilities for the year ended December 31, 2018:

	$
Balance, January 1, 2017	4,782
Additions	1,733
Payments	(2,001)
Rebates assumed in the disposal of U.S. segment	(1,316)
Transferred to accounts payable and accrued liabilities	(1,529)
Balance, December 31, 2017	1,669
Additions	965
Payments	(1,264)
Transferred to accounts payable and accrued liabilities	(298)
Balance, December 31, 2018	**1,072**

Amounts transferred to accounts payable and accrued liabilities represents returns that have been approved but not yet paid. As at December 31, 2018, the contract liability relating to the Canadian operations is $41 (2017 – $18), and the balance of $1,031 (2017 – $1,651) relates to discontinued U.S. operations. The contract liabilities as at December 31, 2017 and January 1, 2017 of $18 and $13, respectively were recorded in accounts payable and accrued liabilities.

14. SHARE CAPITAL

Authorized share capital

The authorized share capital consists of an unlimited number of preference shares, issuable in series, and an unlimited number of voting common shares, with no par value.

The Company has three stock-based compensation plans: The Stock Option Plan ("SOP"), the Employee and Director Share Purchase Plan (“ESPP”) and the Restricted Share Units and Performance Share Units ("PR Plan").

On May 10, 2018, shareholders of Cipher approved resolutions which provide that the maximum number of common shares issuable in aggregate pursuant to outstanding awards or grants under the SOP and the PR Plan at any time shall be 10% of the number of common shares then issued and outstanding.

Share purchase plan

The Company's ESPP allows employees and directors to share in the growth of the Company through share ownership. Through the ESPP, employees and directors may contribute amounts to purchase common shares of the Company at a 15% discount from the prevailing trading price. Plan members must hold their shares for a period of at least six months before they can be sold. During the year ended December 31, 2018, 58,490 common shares were issued under the ESPP (2017 – 34,296). Included in share-based compensation expense is $19 (2017 – $19), which is the discount on the common shares issued during the year.

(In thousands of United States dollars, except per share amounts)

Stock option plan

The following is a summary of the changes in the stock options outstanding from January 1, 2017 to December 31, 2018:

	Number of options (in 000's)	Weighted average exercise price CDN$
Balance, January 1, 2017	1,557	6.39
Granted during the year	544	5.08
Exercised during the year	(388)	2.98
Forfeited/expired during the year	(1,110)	8.36
Balance, December 31, 2017	603	5.80
Granted during the year	585	3.34
Exercised during the year	(1)	2.32
Forfeited/expired during the year	(101)	8.01
Balance, December 31, 2018	**1,086**	**5.47**

As at December 31, 2018, 192,262 options were fully vested and exercisable (2017 – 146,711).

During 2018, the Company granted 585,209 stock options under the SOP. The options vest over a four-year period from the grant date, at a rate of 25% per year and expire seven year from the day of grant. The expected volatility is based on the Company's historical volatility over a comparable period based on expected life. There is no expected dividend. The exercise price and Black Scholes assumptions are as follows:

Grant date	Number granted	Exercise price (CDN$)	Black Scholes value (CDN$)	Risk-free interest rate	Expected life	Expected volatility
March 22, 2018	469,468	$3.53	$1.55	1.94%	4.9 years	48.2%
August 14, 2018	75,741	$3.04	$1.22	2.02%	4.9 years	50.1%
December 14, 2018	40,000	$1.75	$0.83	2.26%	4.9 years	52.9%

Total compensation cost for these stock options is $896, which will be recognized on a graded basis over the vesting period of the stock options. The total expense for stock options for the year ended December 31, 2018 was $450 (2017 – recovery of $107).

The following information relates to stock options that were outstanding as at December 31, 2018:

Range of exercise prices CDN$	Number of options in 000's	Weighted average remaining contractual life in years	Weighted average exercise price CDN$
1.05 – 2.99	55	2.8	1.74
3.00 – 4.99	549	5.8	4.64
5.00 - 13.88	482	6.3	5.81
	1,086	5.9	5.47

During the year, 375 stock options were exercised for 375 common shares (2017 – 388,127 stock options exchanged for 300,999 common shares). The Company's stock option plan provides that an option holder may elect to receive a number of shares equivalent to the growth value of vested options, which is the difference between the market price and the exercise price of the options. The total cash consideration received by the Company for stock option exercised in 2018 was $1 (2017 – $573).

Restricted Share Unit (RSU) and Performance Share Unit (PSU) Plan

On May 13, 2015, the Company adopted an RSU and PSU plan. RSU's and PSU's are notional share units exchangeable for common shares of the Company. RSU's are granted to all employees and directors of the Company and PSU's are granted to certain executives. RSU's granted to employees vest annually over a three or four-year period and RSU's granted to directors' vest over a one-year period. PSU's that were granted in 2016 vest based upon the achievement of financial performance goals in 2017 and 2018. Based on the achievement of certain goals, 6,410 PSU's were granted and the remainder expired unvested.

On September 19, 2017, 63,282 PSUs were granted to key management personnel that vest October 2020 upon the achievement of certain market based performance goals, however if not achieved the performance date extends to October 2021. If certain targets are

(in thousands of United States dollars, except per share amounts)

achieved by October 2020, up to 5 times the number of PSUs granted will be awarded, the award is reduced by 50% if performance period extends to October 2021. Each PSU can be exchanged for an equal number of common shares. The determination of the number of common shares that will ultimately vest was based on weighted average probabilities.

A summary of the RSU's and PSU's granted and outstanding as at December 31, 2018 is as follows:

	RSU's Number of units	**PSU's Number of units**
	000's	000's
Balance, January 1, 2017	202	78
Granted during the year	138	63
Vested during the year	(73)	-
Forfeited/cancelled during the year	(164)	(76)
Balance, December 31, 2017	103	65
Granted during the year	152	-
Vested during the year	(35)	(6)
Forfeited/cancelled during the year	(7)	(5)
Balance, December 31, 2018	**213**	**55**

The total expense for RSU's and PSU's for the year ended December 31, 2018 was $333 (2017 – recovery of $73).

15. REVENUE

The Company earns licensing revenue from both royalties and product sales to its partners, the breakdown is as follows:

	Dec 31, 2018	Dec 31, 2017
	$	$
		Restated
Licensing revenue		Note 3
Royalty revenue	**13,536**	30,951
Licensing product sales	**2,333**	3,900
Total licensing revenue	**15,869**	34,851

16. EXPENSES BY NATURE

The consolidated statements of income and comprehensive income include the following expenses by nature:

Employee salaries and benefits expenses

	Dec 31, 2018	Dec 31, 2017
	$	$
Salaries, bonuses and benefits	**5,057**	3,758
Share-based compensation	**802**	338
Termination benefits	**42**	1,126
Total employee costs	**5,901**	5,222

For the years ended December 31, 2018 and 2017, all employee salaries and benefits are recorded in selling, general and administrative in the consolidated statements of income and comprehensive income.

(In thousands of United States dollars, except per share amounts)

17. COMPENSATION OF KEY MANAGEMENT

Key management includes directors and executives of the Company. The compensation paid or payable to key management for services is shown below:

	Dec 31, 2018	Dec 31, 2017
	$	$
Salaries, bonuses and benefits	**1,346**	1,051
Share-based compensation	**566**	504
Directors fees	**239**	243
Termination benefits	**-**	289
	2,151	2,087

18. INCOME TAXES

The components of the income tax expense are as follows:

	Dec 31, 2018	Dec 31, 2017
	$	$
		Restated Note 3
Current income tax expense	**659**	264
Deferred income tax expense	**1,263**	3,199
Total income tax expense	**1,922**	3,463

Income tax expense as reported differs from the amount that would be computed by applying the combined Canadian federal and provincial statutory income tax rates to income before income taxes. Total current income tax expense of $639 is recorded in accounts payable and accrued liabilities in the consolidated statements of financial position. The sources and tax effects of the differences are as follows:

	Dec 31, 2018	Dec 31, 2017
	$	$
		Restated Note 3
Income before income taxes from continuing operations	**3,123**	14,088
Tax provision at the statutory income tax rate of 26.5%	**828**	3,733
Permanent differences	**320**	274
Effect of currency translation adjustment	**529**	(754)
Change in deferred tax assets not recognized and other	**245**	210
Total income tax expense	**1,922**	3,463

As at December 31, the Company assesses whether the realization of future tax benefits is sufficiently probable to recognize a deferred tax asset. This assessment requires the exercise of judgement, which includes a review of projected taxable income. In 2018, the Company did not recognize a deferred tax asset of $32 (2017 – not recognized $210) arising from capital losses incurred during the current year.

(in thousands of United States dollars, except per share amounts)

Deferred income tax assets of the Company are comprised of the following:

	Dec 31, 2018	Dec 31, 2017
	$	$
		Restated Note 3
Non-capital losses	**384**	-
Tax credits	**1,266**	2,269
Temporary differences	**575**	1,219
	2,225	3,488

The movement in the deferred income tax asset is as follows:

	2018	2017
	$	$
As at January 1	**3,488**	6,690
Tax provision	**(1,263)**	(3,202)
As at December 31	**2,225**	3,488

The significant components of unrecognized deferred tax assets are summarized as follows:

	Dec 31, 2018	Dec 31, 2017
	$	$
Capital losses	**361**	393
Temporary differences	**277**	-
	638	393

The Company has $1,266 (2017 – $2,272) of investment tax credits on SR&ED expenditures that are available to be applied against Canadian federal and provincial taxes otherwise payable in future years and expire in varying amounts from 2022 to 2031. The Cardiome subsidiary has non-capital losses of $208,536, investment tax credits of $13,587 and SR&ED expenditures of $54,859. The non-capital losses expire in varying amounts from 2026 to 2036. The investment tax credits expire in varying amounts from 2023 to 2032.

19. EARNINGS (LOSS) PER SHARE

Earnings (loss) per share is calculated using the weighted average number of shares outstanding. The weighted average number of shares outstanding for the year ended December 31, 2018 was 26,773,224 (2017 – 26,572,412).

Diluted earnings (loss) per share is calculated using the weighted average number of shares outstanding taking into consideration the weighted average impact of dilutive securities. The dilutive weighted average for the year ended December 31, 2018 was 26,997,196 (2017 – 26,766,098).

20. COMMITMENTS AND CONTINGENCIES

On July 19, 2018, the Company entered into an office lease agreement for its corporate operations to replace its current leased facility that expired on December 31, 2018. The term of the lease is 10 years and 3 months, commencing on January 1, 2019. The total undiscounted commitment for the lease term is CDN$4,328.

In 2015, the Company entered into a lease for office space in Charleston, South Carolina for its U.S. operations. The lease commenced on February 22, 2016 and ends on January 31, 2023. After the disposal of the U.S. operations, this leased space was accounted for as an onerous lease. As at December 31, 2018, $1,403 will be received under the sublease arrangement.

(In thousands of United States dollars, except per share amounts)

The total minimum annual payments under the leases are as follows:

Commitments	$
Less than 1 year	560
2 years	613
3 years	626
4 years	641
5 years	306
Thereafter	1,602

Directors and officers are indemnified by the Company for various items including, but not limited to, costs to settle lawsuits or actions due to their association with the Company, subject to certain restrictions. The Company has purchased directors and officer's liability insurance to mitigate the cost of any potential future lawsuits or actions. The term of the indemnification covers the period during which the indemnified party served as a director or officer of the Company.

Executive employment agreements allow for additional payments if a change of control occurs or for termination with or without cause.

In the normal course of business, the Company has entered into agreements that include indemnities in favour of third parties, such as purchase and sale agreements, confidentiality agreements, engagement letters with advisors and consultants, leasing contracts, license agreements, information technology agreements and various product, service, data hosting and network access agreements. These indemnification arrangements may require the applicable entity to compensate counterparties for losses incurred by the counterparties as a result of breaches in representations, covenants and warranties provided by the Company or as a result of litigation or other third party claims or statutory sanctions that may be suffered by the counterparties as a consequence of the relevant transaction. In some instances, the terms of these indemnities are not explicitly defined.

In the normal course of business, the Company may be the subject of litigation or other potential claims. While management assesses the merits of each lawsuit and defends itself accordingly, the Company may be required to incur significant expenses or devote significant resources to defending itself against litigation.

Licensing Agreements with Galephar

In 2002, the Company entered into a Master Licensing and Clinical Supply Agreement ("the Agreement") with Galephar, a Puerto Rico based pharmaceutical research and manufacturing company. Under the Agreement, the Company acquired the rights to package, test, obtain regulatory approvals and market CIP-FENOFIBRATE, CIP-ISOTRETINOIN and CIP-TRAMADOL ER ("the CIP Products") in various countries. In accordance with the Agreement, the Company retains 50% of all revenue from licensing and distribution arrangements entered into with respect to the CIP Products, with the other 50% due to Galephar. Where the Company has opted to market and sell a CIP Product directly in a territory, the Company pays a royalty to Galephar. Galephar retains the right to manufacture and supply the CIP Products. With respect to licensing and distribution arrangements, the Company manages the product supply arrangements with their respective marketing partners and Galephar; product is shipped directly from Galephar to the respective marketing partners. Where the Company has opted to market and sell the CIP Product directly, the Company purchases the finished goods from Galephar directly.

With respect to CIP-ISOTRETINOIN, the Company has entered into licensing and distribution arrangements for the U.S. and Brazil, while opting to market and sell the product directly in Canada. The Company also has in place various licensing and distribution arrangements with respect to CIP-FENOFIBRATE and CIP-TRAMADOL ER in Canada, the U.S. and Central and Latin America.

In 2016, Galephar entered into a contract with another party (the "Assignee") to assign certain rights relating to CIP-ISOTRETINOIN under the Agreement. The Company is a party to this contract, agreeing to remit revenue on the same terms as the Agreement, from licensing and distribution within the U.S. for CIP-ISOTRETOIN directly to the Assignee.

On May 11, 2017, the founder, vice president and a shareholder of Galephar was elected to the Company's Board of Directors as a non-independent member. As a result, the Company's relationship with Galephar is considered a related party.

During the year ended December 31, 2018, the Company paid royalties of $3,505 (2017 – $4,913). As at December 31, 2018, the amount in accounts payable and accrued liabilities owed to Galephar were $1,963 (2017 – $3,591). Amounts payable to Galephar are remitted quarterly, after the Company collects from its licensing partners. Accordingly, the Company's accounts receivable has a corresponding balance representing amounts owed by its licensing partners.

21. SEGMENTED INFORMATION

The Company's operations are categorized into one industry segment, being specialty pharmaceuticals. Prior to the disposal of the U.S. business, the Company managed its operations geographically in Canada and the United States, representing two segments. Following the disposal of the U.S. operations, the Company has one reportable segment.

The Company generated approximately 30% of its net revenue within Canada, with the remainder attributable to the U.S. There are no significant assets located outside of Canada.

CORPORATE DIRECTORY

DIRECTORS

Mark Beaudet
Chair

Arthur Deboeck
Director

Christian Godin
Director

Craig Mull
Director

Dr. John Mull
Director

Dr. Laurence Terrisse-Rulleau
Director

Robert Tessarolo
Director

Harold Wolkin
Director

OFFICERS

Robert Tessarolo
President and Chief Executive Officer

Nadine Jutlah
Interim Chief Financial Officer

SHAREHOLDER INFORMATION

Stock Exchange Listing
The Company's common shares are listed on the Toronto Stock Exchange under the symbol "CPH".

Shareholder Inquiries
Inquiries regarding change of address, transfer requirements or lost certificates should be directed to the Company's transfer agent.

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