

# **2019 ANNUAL REPORT**

### **CORPORATE PROFILE**

Psychemedics is the pioneer and global leader of testing for drugs of abuse using hair analysis. With over 30 years of continuous innovation, Psychemedics is the only company to develop and patent a process that releases virtually 100% of ingested drugs from the inside of the hair. We believe Psychemedics' superior science delivers the most sensitive FDA 510 K cleared tests in the world resulting in unmatched detection rates.

Psychemedics' results, science, and people are trusted by the world's most safety sensitive industries, the largest law enforcement agencies as well as by schools and elite institutions around the globe. The most recognized companies in the Fortune 500 rely on Psychemedics to ensure they are building drug free, safe, and productive workforces. We make businesses, our nation's highways, and campuses safe.

Psychemedics quite literally invented the science that re-invented an industry. We are the standard against which all others measure themselves for sensitivity, quality, and innovation to stay ahead of the ever-changing illicit drug landscape.



Dear Fellow Shareholders,

This was a year of challenges, but also a year of accomplishments.

While revenue and earnings were affected by lower sales volume, our performance was in fact better than reported. We had a couple of one-time items that impacted earnings by \$0.16/share. Adjusting for these one-time expenses, EPS would have been \$0.44/share. These items included \$0.12/share expense from the costs associated with repatriating our cash from Brazil and \$0.04/share associated with an unexpected lab move in California. And we believe that even these adjusted numbers do not reflect the underlying strength of our Company.

Our decline in revenues was primarily a result of a 25% decline from Brazil (see Brazil market discussion below). Additionally, we had weakness in some sectors of our domestic business causing domestic revenues to decline 6%. Oil & Gas and Transportation showed good gains; however, other sectors such as railroads, manufacturing and drilling registered declines for reasons specific to the circumstances of each industry.

The Brazil market, while large, has not developed and progressed as we had expected. We have recognized and stated from the beginning that there are always greater uncertainties and continuous challenges that accompany any new, large market as it develops, especially in a foreign country like Brazil. The Brazil government has still not implemented the 2 ½ year license renewal requirement stated in the March 2016 law, which was supposed to have been implemented in September 2018. In addition, strict laboratory accreditation requirements are also not being implemented, which has allowed small Brazil labs into the market; and resulted in increasingly unfavorable pricing as the market developed. This has reduced the attractiveness of this market over time. Fortunately, we did not make an investment in a lab in Brazil, as our criteria was large market share, and sustainability of that market share. It would appear that our business in the high-volume driver license sector will continue to decline in 2020. However, any reduction in Brazil revenues will have a lesser impact on profits than a decline in domestic revenues. We are interested only in profitable growth, which is why we have been profitable in every year since 1993. While many things could change in the future regarding the Brazil market, our plan is to continue to be a strong dividend-paying company, as we have for the last 94 consecutive quarters.

In September 2019, the Company entered into a new distribution agreement in Brazil with Toxicologia Pardini, Ltda and its affiliate Sansão Holding S.A. The new agreement replaced our prior distribution agreement with our independent distributor, Psychemedics Exames Toxicológicos, which was acquired in 2018 by Instituto Hermes Pardini S.A. ("Pardini"). Pardini then renamed Exames to Toxicologia Pardini, which operates as a subsidiary to Pardini. Under the new agreement, Toxicologia Pardini and its affiliate were appointed as non-exclusive distributors to sell, promote and distribute only the Company's hair drug testing services or its own competing test. This new agreement has an indefinite term, with either the Company or the distributor being able to cancel the agreement upon 90-days' prior written notice.

An additional challenge came when the Company was notified by the landlord of one of its laboratory facilities in California that it sold the building and was not extending the Company's lease. This had multiple implications. In order to accommodate the Company's operational needs, a new facility was leased in the third quarter. As a result, the Company incurred leasehold improvements to the Company's existing facility and new property and additional expenses for extra rent and relocation costs. Finally, this move was an unexpected event that has required significant extra effort. Our team has been up to the challenge; and as of today, the move is substantially complete.

Psychemedics has been the hair testing pioneer and global scientific leader for over thirty years and we continue to demonstrate our scientific leadership. We believe the continued advancement in the science of hair testing is important to the Company and our clients and is a significant tool for addressing one of the major issues of our time --- drug abuse. During 2019, we again accomplished a number of major achievements, which will continue to expand our market opportunity and help drive future growth. We were excited to announce a number of industry "FIRSTS" again for our Company:

- In March, the Company introduced the industry's first confirmation process to accurately measure hydroxycocaines. While the Company's patented hair test is already the most accurate and sensitive, the detection of hydroxycocaines, unique cocaine markers, now allows the Company to apply additional metabolic criteria to confirm cocaine use.
- In April, the Company introduced the industry's first and only FDA-cleared hair test for Fentanyl, a major killer increasingly found in illegal drugs. Psychemedics' new Fentanyl test is an accurate and economical way to equip clients with the capability to quickly detect people at risk and take steps to deter usage.

The Company's balance sheet remains strong with approximately \$7.3 million of cash (\$7.0 million of working capital) at year end. The total equipment financing outstanding was \$2.6 million as of December 31, 2019, compared to a total amount borrowed of \$12.2 million reflecting repayment of \$9.6 million since May 2014. Our directors share our confidence in the future of Psychemedics and remain committed to rewarding shareholders by sharing the financial success of the Company with them as we grow. At year end, we were pleased to declare our 94th consecutive quarterly dividend.

I would like to take this opportunity to express my sincere appreciation to all our clients for the contribution they are making to deter the use of drugs of abuse and the abuse of prescription drugs, to our Directors for their counsel and guidance, and to all my teammates at Psychemedics for their commitment and dedication to excellence in serving our customers. And I want to thank you, our shareholders, for your continued support.

Sincerely,

Raymond C. Kubacki

Chairman, President and Chief Executive Officer

Jay Kutschi

# **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **FORM 10-K**

	SECTION 13 OR 15(d) OF	THE SECURITIES EXCHANGE ACT OF 1934
For the	Fiscal Year Ended December	er 31, 2019
☐ TRANSITION REPORT PURSUANT	T TO SECTION 13 OR 15(d)	OF THE SECURITIES EXCHANGE ACT OF 1934
C	ommission File Number: 1-1	3738
DOVOLLEN	AEDICS COD	DODATION
	MEDICS COR	
· ·	me of Registrant as Specified	,
<b>Delaware</b> (State or Other Jurisdiction of Incorporation or Org	anization)	58-1701987 (I.R.S. Employer Identification No.)
289 Great Road		
Acton, Massachusetts		01720
(Address of Principal Executive Offices)		(Zip Code)
Registrant's Telep	hone Number Including Area	Code: (978) 206-8220
Securities re	egistered pursuant to Section 1	2(b) of the Act:
<u>Title of Class</u>	Trading Symbol(s)	Name of each exchange on which registered
Common stock. \$0.005 par value	PMD	The Nasdaq Stock Market, LLC.
Securities regis	stered pursuant to Section 12(g	g) of the Act: None
Indicate by a check mark if the registrant is a well-Yes $\square$ No $\boxtimes$	known seasoned issuer (as def	ined in Rule 405 of the Securities Exchange Act of 1934).
Indicate by a check mark if the registrant is not red Act of 1934). Yes $\square$ No $\boxtimes$	quired to file reports pursuant	to Section 13 or Section 15(d) of the Securities Exchange
	ch shorter period that the regi	be filed by Section 13 or 15(d) of the Securities Exchange strant was required to file such reports), and (2) has been
		Interactive Data File required to be submitted and posted a shorter period that the registrant was required to submit
	ons of "accelerated filer", "la	relerated filer, a non-accelerated filer, a smaller reporting arge accelerated filer", "non-accelerated filer", "smaller is Exchange Act of 1934.
Large Accelerated Filer ☐ Acceler	ated Filer □	Non-Accelerated Filer ⊠

Smaller Reporting Company ⊠ Emerging Growth Company □

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.  $\Box$ 

Indicate by a check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Securities and Exchange Act of 1934). Yes □ No ⊠

As of June 30, 2019, there were 5,516,931 shares of Common Stock of the Registrant outstanding. The aggregate market value of the Common Stock of the Registrant held by non-affiliates (assuming for these purposes, but not conceding, that all executive officers, directors and 5% shareholders are "affiliates" of the Registrant) as of June 30, 2019 was approximately \$37 million, computed based upon the closing price of \$10.09 per share on June 28, 2019.

As of February 25, 2020, there were 5,516,931 shares of Common Stock of the Registrant outstanding.

#### DOCUMENTS INCORPORATED BY REFERENCE

Part III of this Annual Report on Form 10-K incorporates by reference portions of the Registrant's definitive proxy statement, to be filed with the Securities and Exchange Commission no later than 120 days after the close of its fiscal year; provided that if such proxy statement is not filed with the Commission in such 120-day period, an amendment to this Form 10-K shall be filed no later than the end of the 120-day period.



#### SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

Some of the statements under "Business," "Risk Factors," "Legal Proceedings," "Market for Registrant's Common Stock and Related Stockholder Matters" and "Management Discussion and Analysis of Financial Condition and Results of Operations" and elsewhere in this Annual Report on Form 10-K (this "Form 10-K") constitute forward-looking statements under Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, including statements made with respect to future earnings, earnings per share, revenues, operating income, cash flows, competitive and strategic initiatives, potential stock repurchases, liquidity needs, dividends, future business, growth opportunities, profitability, pricing, new accounts, customer base, market share, test volume, sales volume, sales and marketing strategies, U.S. and foreign drug testing laws and regulations and the enforcement of such laws and regulations, required investments in plant, equipment and people, new test development, and contingencies, including litigation results. These statements involve known and unknown risks, uncertainties and other factors that may cause results, levels of activity, growth, performance, earnings per share or achievements to be materially different from any future results, levels of activity, growth, performance, earnings per share or achievements expressed or implied by such forward-looking statements.

The forward-looking statements included in this Form 10-K and referred to elsewhere are related to future events or our strategies or future financial performance. In some cases, you can identify forward-looking statements by terminology such as "may," "should," "believe," "anticipate," "future," "potential," "estimate," "encourage," "opportunity," "growth," "leader," "could", "expect," "intend," "plan," "expand," "focus," "through," "strategy," "provide," "offer," "allow," "commitment," "implement," "result," "increase," "establish," "perform," "make," "continue," "can," "ongoing," "include" or the negative of such terms or comparable terminology. All forward-looking statements included in this Form 10-K are based on information available to us as of the filing date of this report, and the Company assumes no obligation to update any such forward-looking statements. Our actual results could differ materially from the forward-looking statements.

Factors that may cause such differences include but are not limited to: (1) intense competition in the drug testing industry, particularly among companies that test utilizing hair samples; (2) risks associated with the development of markets for new products and services offered; (3) pricing policies; (4) risks associated with capacity expansion; (5) risks associated with U.S. government regulations, including, but not limited to, FDA regulations, (6) risks associated with our international operations, including, but not limited to, Brazilian laws, proposed laws and regulations, market development and currency risks; (7) Psychemedics' ability to maintain its reputation and brand image; (8) the ability of Psychemedics to achieve its business plans, productivity improvements, cost controls, leveraging of its global operating platform, and acceleration of the rate of innovation; (9) information technology system failures and data security breaches; (10) the uncertain global economy; (11) our ability to attract, develop and retain executives and other qualified employees and independent contractors, including distributors; (12) Psychemedics' ability to obtain and protect intellectual property rights; (13) litigation risks; and (14) changes in economic conditions which affect demand for our products and services.

Additional important factors that could cause actual results to differ materially from expectations reflected in our forward-looking statements include those described in Item 1A, "Risk Factors."

# PSYCHEMEDICS CORPORATION

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#### PART I

#### Available Information; Background

Psychemedics Corporation (together with its subsidiaries, "the Company" or "Psychemedics") maintains executive offices located at 289 Great Road, Acton, MA 01720. Our telephone number is (978) 206-8220. Our stock is traded on the NASDAQ Stock Market under the symbol "PMD". Our Internet address is *www.psychemedics.com*. The Company makes available, free of charge, on the Investor Information section of its website, its Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and all amendments to those reports as soon as reasonably practicable after such material is electronically filed with the Securities and Exchange Commission (the "SEC"). Copies are also available, without charge, from Psychemedics Corporation, Attn: Investor Relations, 289 Great Road, Acton, MA 01720. Alternatively, reports filed with the SEC may be viewed or obtained at the SEC Public Reference Room in Washington, D.C., or the SEC's Internet site at *www.sec.gov*. We do not intend for information contained in our website to be part of this Annual Report on Form 10-K.

#### Item 1. Business

#### General

Psychemedics Corporation is a Delaware corporation organized on September 24, 1986. The consolidated financial statements of the Company include the accounts and results of operations of Psychemedics Corporation and its wholly-owned subsidiary Psychemedics International, LLC (Delaware) and their jointly-owned subsidiary Psychemedics Laboratórios Ltda (Brazil). All significant inter-company balances and transactions have been eliminated in consolidation. A majority of the Company's assets are located within the United States. The Company provides testing services for the detection of drugs of abuse through the analysis of hair samples. The Company's testing methods utilize a patented technology that digests the hair and releases drugs trapped in the hair without destroying the drugs. This is fundamental to the entire process because the patented method gets virtually 100% of the drug out of the hair, and if you cannot get the drug out of the hair, you cannot measure it. The Company then performs a proprietary custom-designed patented (US 10,539,580) enzyme immunoassay (EIA) on the liquid supernatant, with confirmation testing by mass spectrometry.

The Company's primary application of its patented technology is as a testing service that analyzes hair samples for the presence of certain drugs of abuse. The Company's customized proprietary EIA procedures to drug test hair samples differ from the more commonly used immunoassay procedures employed by other hair testing companies. The Company's testing results provide quantitative information that can indicate the approximate amount of drug ingested as well as historical data, which can show a pattern of individual drug use over a longer period of time, thereby providing superior detection compared to other types of drug testing. This information is useful to employers for both applicant and employee testing, as well as treatment professionals, law enforcement agencies, school administrators, and parents concerned about their children's drug use. The Company provides screening and confirmation by mass spectrometry using industry-accepted practices for cocaine, marijuana, PCP, amphetamines (including ecstasy, eve and Adderall), opiates (including heroin, hydrocodone, hydromorphone, oxycodone, oxymorphone and codeine), synthetic cannabinoids (including K2, Spice, Blaze), benzodiazepines (Xanax®, Valium®, and Ativan®), nicotine and Fentanyl. In addition, in 2013, the Company launched a hair test for alcohol which also looks back on use over a 90 day period, as our hair drug tests do.

Testing services are currently performed at the Company's Culver City, California campus located at 5832 Uplander Way and 5750 Hannum Avenue.

# **Background on Drug Testing with Hair**

When certain chemical substances enter the bloodstream, the blood carries these substances to the hair where they become "entrapped" in the protein matrix in amounts approximately proportional to the amount ingested. The Company utilizes a patented drug extraction method followed by a unique patented enzyme immunoassay (EIA) procedure to identify drugs in the hair. The patented drug extraction method effectively releases drugs from the hair without destroying the drugs, getting virtually 100% of the drug out of the hair. The patented method can be used with a broad range of immunoassay screen techniques and mass spectrometry methods.

The immunoassays used by the company have been patented under the name "Solid Phase Multi-Analyte Assay." The immunoassays produced by the Psychemedics R&D team were uniquely designed specifically to meet and even exceed the standards of radioimmunoassay ("RIAH"), the original testing method created and utilized by the Company prior to 2013. Because Psychemedics is the only hair testing laboratory that manufactures its own screening assays, it has full control over all aspects of its technology, and that powerful advantage facilitated the Company's creation of its EIA assays with equivalence to its own previously FDA-cleared radioimmunoassays.

The EIA screened positive results are then confirmed by mass spectrometry. Depending upon the length of hair, the Company is able to provide historical information on drug use by the person from whom the sample was obtained. Because head hair grows approximately 1.3 centimeters per month, a 3.9 centimeter head hair sample can reflect drug ingestion over the approximate three months prior to the collection of the sample. Another option is sectional analysis of the head hair sample, in which the hair is sectioned into lengths which approximately correspond to certain time periods, thereby providing information on patterns of drug use.

#### Validation of the Company's Proprietary Testing Methods

The process of analyzing human hair for the presence of drugs has been the subject of numerous peer-reviewed, scientific field studies. Many of the studies have been funded by the National Institute of Justice or the National Institute on Drug Abuse ("NIDA"). Several hundred research articles written by independent researchers have been published supporting the general validity and usefulness of hair analysis.

Some of the Company's customers have also completed their own testing to validate the Company's hair test results compared to other companies' urine test results. These studies consistently confirmed the Company's superior detection rate compared to urinalysis testing. When results from the Company's hair testing methods were compared to urine results in side-by-side evaluations, 5 to 10 times as many drug abusers were accurately identified by the Company's proprietary methods.

In 1998, the National Institute of Justice, utilizing Psychemedics' previously utilized RIAH hair testing assay, completed a Pennsylvania Prison study where hair analysis revealed an average prison drug use level of approximately 7.9% in 1996. Comparatively, urinalysis revealed virtually no positives. After measures to curtail drug use were instituted (drug-sniffing dogs, searches and scanners), the use level fell to approximately 2% according to the results of hair analysis in 1998. Again, the urine tests showed virtually no positives. The study illustrates the usefulness of hair analysis to monitor populations and the weakness of urinalysis.

The Company has received 510k clearance from the Food and Drug Administration (FDA) on nine EIA assays used to test head and body hair for drugs of abuse.

The Company's decontamination wash protocol and the effects in eliminating surface contamination were analyzed in a study conducted by scientists at the Laboratory of the Federal Bureau of Investigation and published in August 2014 in the Journal of Analytical Toxicology. The FBI concluded that the use of an extended wash protocol of the type used by the Company will exclude false positive results from environmental contact with cocaine. In the study, the FBI cited Psychemedics' studies published in 1993, 2002, 2004, and 2005, and named our lab director, Dr. Michael Schaffer, and our lab, in its acknowledgments. The FBI study also supported the use of metabolites known as hydroxycocaines as evidence of ingestion. These metabolites were first identified in hair by Psychemedics.

#### Advantages of Using the Company's Patented Method

The Company asserts that hair testing using its patented method confers substantive advantages over detection through urinalysis. Although urinalysis testing can provide accurate drug use information, the scope of the information is short-term and is generally limited to the type of drug ingested within a few days of the test. Studies published in many scientific publications have indicated that most drugs disappear from urine within a few days.

In contrast to urinalysis testing, hair testing using the Company's patented method can provide long-term historical drug use information resulting in a significantly wider window of detection. This window may be several months or longer depending on the length of the hair sample. The Company's standard test offering, however, uses a 3.9 centimeter length head hair sample cut close to the scalp, which measures use for approximately three months prior to collection of the sample.

This wider window enhances the detection efficiency of hair analysis, making it particularly useful in pre-employment and random testing. Hair testing not only identifies more drug users, but it may also uncover patterns and severity of drug use (information most helpful in determining the scope of an individual's involvement with drugs), while serving as a deterrent against drug use. Hair testing employing the Company's patented method greatly reduces the incidence of "false negatives" associated with evasive measures typically encountered with urinalysis testing. For example, urinalysis test results are adversely impacted by excessive fluid intake prior to testing and by adulteration or substitution of the urine sample. Moreover, a drug user who abstains from use for a few days prior to urinalysis testing can usually escape detection. Hair testing is effectively free of these problems, as it cannot be thwarted by evasive measures typically encountered with urinalysis testing. Hair testing is also attractive to customers since sample collection is typically performed under close supervision yet is less intrusive and less embarrassing for test subjects.

Hair testing using the Company's patented method (with mass spectrometry confirmation) further reduces the prospects of error in conducting drug detection tests. Urinalysis testing is more susceptible to problems such as "evidentiary false positives" resulting from passive drug exposure or poppy seeds. To combat this problem, in federally mandated testing, the opiate cutoff levels for urine testing were raised 667% (from 300 to 2,000 ng/ml) on December 1, 1998, and testing for the presence of a heroin metabolite, 6-MAM, was required. These requirements, however, effectively reduced the detection time frame for confirmed heroin use, such that 6-MAM in urine can typically only be detected for several hours post drug use. In contrast, the metabolite 6-MAM is stable in hair and can be detected for months.

In the event a positive urinalysis test result is challenged, a test on a newly collected urine sample is not a viable remedy. Unless the forewarned individual continues to use drugs prior to the date of the newly collected sample, a re-test may yield a negative result when using urinalysis testing because of temporary abstinence. In contrast, when the Company's hair testing method is offered on a repeat hair sample, the individual suspected of drug use cannot as easily affect the results because historical drug use data remains locked in the hair fiber.

When compared to other hair testing methods, not only are the Company's assays cleared by the FDA for head and body hair, they also employ a unique patented method of digesting hair that the Company believes allows for the most efficient release of drugs from the hair without destroying the drugs. The Company's method of releasing drugs from hair is a key advantage and results in superior detection rates.

#### **Disadvantages of Hair Testing**

There are some disadvantages of hair testing as compared to drug detection through urinalysis. Because hair starts growing below the skin surface, drug ingestion evidence does not appear in hair above the scalp until approximately five to seven days after use.

Thus, hair testing is not suitable for determining drug presence in "for cause" testing as is done in connection with an accident investigation. It does, however, provide a drug history which can complement urinalysis information in "for cause" testing.

The Company's prices for its tests are generally somewhat higher than prices for tests using urinalysis, but the Company believes that its superior detection rates provide more value to the customer. This pricing policy could, however, adversely impact the growth of the Company's sales volume.

#### **Hair Alcohol Testing**

In 2013, the Company launched a test for alcohol using hair. This test measures average alcohol consumption over a period of approximately three months, indicates the approximate level of alcohol use during that time period, and can provide a behavioral indication of excessive use. The test measures the amount of ethyl glucuronide (EtG) in the hair – a trace metabolite of ethanol and a direct alcohol biomarker.

#### **Intellectual Property**

Certain aspects of the hair analysis method currently used by the Company are covered by US and foreign patents owned by the Company. The Company has been granted a total of twelve US patents, including a patent issued to the Company in 2011 that focuses on digesting hair and releasing drugs trapped in the hair without destroying the drugs. This patent can be used with a broad range of immunoassay screen techniques, mass spectrometry methods, and chromatographic procedures. In 2012, the Company received an additional US patent that extended the range of the patent received in 2011. More recently, two US patents related to integrity testing of hair samples issued in 2015 and 2016, and a US patent application directed to detection of multiple analytes was allowed. Additional patent applications are currently pending in the U.S. and internationally. In 2019, US Patent 10,539,580 was issued covering our Solid Phase Multi-Analyte Assay used in all our cleared EIA FDA submissions.

The Company also relies on trade secrets to protect certain aspects of its proprietary technology. The Company's ability to protect the confidentiality of its trade secrets is dependent upon the Company's internal safeguards and upon the laws protecting trade secrets and unfair competition.

In the event that patent protection or protection under the laws of trade secrets is not sufficient and the Company's competitors succeed in duplicating the Company's products, the Company's business could be materially adversely affected.

#### **Target Markets**

### Workplace

The Company focuses its primary marketing efforts on the private sector, with particular emphasis on job applicant and employee testing.

Most businesses use drug testing to screen job applicants and employees. The Hazeldon Foundation survey from 2007 indicated that 85 percent of human resource ("HR") professionals believe that drug testing is an effective way to identify substance abuse. The prevalence of drug screening programs reflects a concern that drug use contributes to employee health problems and costs (as the same study found that 62 percent of HR professionals believe that absenteeism is the most significant problem caused by substance abuse and addiction, followed at 49 percent by reduced productivity, a lack of trustworthiness at 39 percent, a negative impact on the company's external image at 32 percent, missed deadlines at 31 percent, and in certain industries, safety hazards.) It has been estimated that the cost to American businesses is more than \$100 billion annually.

The principal criticism of employee drug testing programs centers on the effectiveness of the testing program. Most private sector testing programs use urinalysis. Such programs are susceptible to evasive maneuvers and the inability to obtain confirmation through repeat samples in the event of a challenged result. An industry has developed over the Internet, and through direct mail, marketing a wide variety of adulterants, dilutants, clean urine and devices to assist drug users in falsifying urine test results.

Moreover, scheduled tests such as pre-employment testing and some random testing programs provide an opportunity for many drug users to simply abstain for a few days in order to escape detection by urinalysis.

The Company presents its patented hair analysis method to potential clients as a better technology well suited to employer needs. Field studies and actual client results support the accuracy and superior effectiveness of the Company's patented technology and its ability to detect varying levels of drug use.

The Company performs a confirmation test of all screened positive results through mass spectrometry. The use of mass spectrometry is an industry accepted practice used to confirm a positive test result from the screening process. The Company offers its clients an expanded drug screen with mass spectrometry confirmation of cocaine, PCP, marijuana, amphetamines, opiates, synthetic cannabinoids and benzodiazepines. In addition, the Company offers a hair test for alcohol which also looks back on use over a 90 day period, as our hair drug tests do.

#### **Professional Drivers**

In 2016, Brazil started drugs of abuse testing for all professional drivers in the country using a hair test. This is a mandated program from a law passed in 2015. In the United States, a similar requirement exists for professional drivers, however, a urine test is currently required. The U.S. government is currently evaluating alternative mediums for testing of drugs of abuse for professional drivers, including hair.

#### Schools

The Company currently serves hundreds of schools throughout the United States and in several foreign countries. The Company offers its school clients the same five-drug screen with mass spectrometry confirmation that is used with the Company's workplace testing service.

#### **Parents**

The Company also offers a personal drug testing service, known as "PDT-90"®, for parents concerned about drug use by their children. It allows parents to collect a small sample of hair from their child in the privacy of the home, send it to the Company's laboratory and have it tested for drugs of abuse by the Company. The PDT-90 testing service uses the same patented method that is used with the Company's workplace testing service.

#### Research

The Company is involved in the following ongoing studies involving use of drugs of abuse in various populations: In 2017, the Company partnered with an NIH-funded study titled "Adolescent Brain Cognitive Development" (ABCD) which expects to enroll 12,000 youth age 9-10 over a 2-2.5 year recruitment period. The objective of the ABCD consortium is to establish a national, multisite, longitudinal cohort and database by studying youth prospectively in order to examine brain and cognitive development in children and adolescents through a period (10 years) when significant development of intellectual and emotional functions occurs. Psychemedics' role in this study is to test hair to detect use of drugs over the time period. The Company is also partnering with Olin Neuropsychiatry Research Center Institute of Living Hartford Hospital in a research study entitled, "Neurochemical and Functional Correlates of Memory in Emerging Adult Marijuana Users." The study is aiming to better characterize the impact of heavy marijuana use on memory and is funded by a grant from NIDA.

#### Geographic Scope

Revenues outside the United States were 27%, 32% and 34% of consolidated revenues for 2019, 2018 and 2017, respectively.

#### Distribution

The Company markets its corporate drug testing services through its own sales force and through distributors. The Company markets its home drug testing service, PDT-90, through the internet.

The business in Brazil is sold through the distributor, Toxicologia Pardini, Ltda ("Pardini Tox"). In 2018, the Company's independent distributor, Psychemedics Exames Toxicológicos ("Exames") was acquired by Instituto Hermes Pardini S.A. ("Pardini"), a provider of medical and diagnostic services in Brazil, including reference laboratory services. Pardini then renamed Exames to Pardini Tox, which operates as a subsidiary to Pardini. In September 2019, the Company entered into a new distribution agreement in Brazil with Pardini Tox and its affiliate Sansão Holding S.A. The new agreement replaced our prior distribution agreement with Exames. Under the new agreement, Pardini Tox and Sansão were appointed as a non-exclusive distributor to sell, promote and distribute the Company's hair drug testing services for an indefinite term, with either the Company or the distributor being able to cancel the agreement upon 90-days' prior written notice. Under this new agreement, Pardini and Pardini Tox are only permitted to sell the Company's hair drug test or Pardini's own competing hair drug test in Brazil. The agreement requires that the Psychemedics' hair drug tests be marketed, sold, and reported in Brazil under the Psychemedics Corporation brand name, with all related materials so identified, and with actual testing services of Psychemedics' tests to continue to be performed by Psychemedics at its laboratory in California.

In 2016, the Company was certified as a Center of Excellence by BenchmarkPortal for its customer service function. Customer service is a key component to the sales and support function and this certification validates the efforts by the Company to support our customers. The Company was recertified in 2017 and 2018.

#### **Significant Customers**

The Company had one customer, Pardini Tox that represented 26%, 31% and 33% of total revenue for the years ended December 31, 2019, 2018 and 2017, respectively. Pardini Tox accounted for 13% and 20% of the total accounts receivable balance as of December 31, 2019 and 2018, respectively. The Company had one other customer that accounted for 11% of the total accounts receivable balance as of December 31, 2019.

#### Competition

The Company competes directly with numerous commercial laboratories that test for drugs primarily through urinalysis testing. Most of these laboratories, such as Quest Diagnostics, have substantially greater financial resources, market identity, marketing organizations, facilities, and more personnel than the Company. The Company has been steadily increasing its base of corporate customers and believes that future success with new customers is dependent on the Company's ability to communicate the advantages of implementing a drug program utilizing the Company's patented hair analysis method.

The Company's ability to compete is also a function of pricing. The Company's prices for its tests are generally somewhat higher than prices for tests using urinalysis. However, the Company believes that its superior detection rates, coupled with the customer's ability to test less frequently due to hair testing's wider window of detection (several months versus approximately three days with urinalysis), provide more value to the customer. This pricing policy could, however, lead to slower sales growth for the Company.

The Company also competes with other hair testing laboratories. The Company distinguishes itself from hair testing competitors by emphasizing the superior results the Company obtains through use of its unique patented extraction method (getting drug out of the hair), in combination with the Company's FDA cleared immunoassay screen.

#### **Government Regulation**

The Company is licensed as a clinical laboratory by the State of California as well as certain other states. All tests are performed according to the laboratory standards established by the Department of Health and Human Services, through the Clinical Laboratories Improvement Amendments ("CLIA"), and various state licensing statutes.

A substantial number of states regulate drug testing. The scope and nature of such regulations varies greatly from state to state and is subject to change from time to time. The Company addresses state law issues on an ongoing basis.

The Federal Food, Drug and Cosmetic Act, as amended (the "FDC Act") requires companies engaged in the business of testing for drugs of abuse using a test (screening assay) not previously recognized by the FDA to submit their assay to the FDA for recognition prior to marketing. In addition, the laboratory performing the tests is required to be certified by a recognized agency. In 2002, the Company received 510k clearance to market all five of its assays utilizing RIAH technology.

In 2008, the Company received the first CAP (College of American Pathologists) certification specifically including hair testing.

In 2011, the Company received ISO/IEC 17025 International Accreditation for a broad spectrum of laboratory testing including drugs of abuse and forensics in hair and urine specimens. ISO/IEC 17025 accreditation provides formal recognition to laboratories that demonstrate technical competency and maintains this recognition through periodic evaluations to ensure continued compliance.

In 2012, the Company received 510k clearance from the FDA to market five of its assays utilizing the Company's custom developed EIA technology.

In 2013, the Company received 510k clearance from the FDA to market two additional assays utilizing the Company's custom developed EIA technology.

In 2015, the Brazilian government signed into law a requirement for professional drivers to take a hair drug test when obtaining or renewing their driver's license. The law also requires professional drivers to be tested when they are hired or fired.

In 2016, the Company received accreditation from the Standards Council of Canada as an accredited testing laboratory.

In 2017, the Company received 510k clearance from the FDA to market one additional assay utilizing the Company's custom developed EIA technology.

In 2019, the Company received 510k clearance from the FDA to market one additional assay utilizing the Company's custom developed EIA technology.

#### **Research and Development**

The Company is continuously engaged in research and development activities. During the years ended December 31, 2019, 2018 and 2017, \$1.6 million, \$1.6 million and \$1.4 million, respectively, were expended for research and development. The Company continues to perform research activities to develop new products and services and to improve existing products and services utilizing the Company's proprietary technology. The Company also continues to evaluate methodologies to enhance its drug screening capabilities. Additional research using the Company's proprietary technology is being conducted by outside research organizations through government-funded studies.

#### **Employees**

As of December 31, 2019, the Company had 204 employees, 4 of whom are in R&D. None of the Company's employees are subject to a collective bargaining agreement.

#### Item 1A. Risk Factors

In addition to other information contained in this Form 10-K, the following risk factors should be carefully considered in evaluating Psychemedics Corporation and its business because such factors could have a significant impact on our business, operating results and financial condition. These risk factors could cause actual results to materially differ from those projected in any forward-looking statements.

#### Companies may develop products that compete with our products and some of these companies may be larger and better capitalized than we are.

Many of our competitors and potential competitors are larger and have greater financial resources than we do and offer a range of products broader than our products. Some of the companies with which we now compete or may compete in the future may develop more extensive research and marketing capabilities and greater technical and personnel resources than we do, and may become better positioned to compete in an evolving industry. Inability to compete successfully could harm our business and prospects.

#### Increased competition, including price competition, could have a material impact on the Company's net revenues and profitability.

Our business is intensely competitive, both in terms of price and service. Pricing of drug testing services is a significant factor often considered by customers in selecting a drug testing laboratory. As a result of the clinical laboratory industry undergoing significant consolidation, larger clinical laboratory providers are able to increase cost efficiencies afforded by large-scale automated testing. This consolidation results in greater price competition. The Company may be unable to increase cost efficiencies sufficiently, if at all, and as a result, its net earnings and cash flows could be negatively impacted by such price competition. The Company may also face increased competition from companies that do not comply with existing laws or regulations or otherwise disregard compliance standards in the industry. Additional competition, including price competition, could have a material adverse impact on the Company's net revenues and profitability. The Company operations in Brazil are subject to price pressures as this is a new market with new competitors entering the market. The Company may also face changes in fee schedules, competitive bidding for laboratory services or other actions or pressures reducing payment schedules as a result of increased or additional competition.

#### Our results of operations are subject in part to variation in our customers' hiring practices and other factors beyond our control.

Our results of operations have been and may continue to be subject to variation in our customers' hiring practices, which in turn is dependent, to a large extent, on the general condition of the economy. Results for a particular quarter may vary due to a number of factors, including:

- economic conditions in our markets in general;
- economic conditions affecting our customers and their particular industries;
- the introduction of new products and product enhancements by us or our competitors; and
- pricing and other competitive conditions.

# A failure to obtain and retain new customers, or a loss of existing customers, or a reduction in tests ordered, could impact the Company's ability to successfully grow its business.

The Company needs to obtain and retain new customers. In addition, a reduction in tests ordered, without offsetting growth in its customer base, could impact the Company's ability to successfully grow its business and could have a material adverse impact on the Company's net revenues and profitability. We compete primarily on the basis of the quality of testing, reputation in the industry, the pricing of services and ability to employ qualified personnel. The Company's failure to successfully compete on any of these factors could result in the loss of customers and a reduction in the Company's ability to expand its customer base.

## Our business could be harmed if we are unable to protect our technology.

We rely primarily on a combination of trade secrets, patents and trademark laws and confidentiality procedures to protect our technology. Despite these precautions, unauthorized third parties may infringe or copy portions of our technology. In addition, because patent applications in the United States are not publicly disclosed until either (1) 18 months after the application filing date or (2) the publication date of an issued patent wherein applicant(s) seek only US patent protection, applications not yet disclosed may have been filed which relate to our technology. Moreover, there is a risk that foreign intellectual property laws will not protect our intellectual property rights to the same extent as United States intellectual property laws. In the absence of the foregoing protections, we may be vulnerable to competitors who attempt to copy our products, processes or technology.

#### Our business could be affected by IT system failures or Cybersecurity breaches.

A computer or IT system failure could affect our ability to perform tests, report test results or properly bill customers. Failures could occur as a result of the standardization of our IT systems and other system conversions, telecommunications failures, malicious human acts (such as electronic break-ins or computer viruses) or natural disasters. Sustained system failures or interruption of the Company's systems in one or more of its operations could disrupt the Company's ability to process and provide test results in a timely manner and/or bill the appropriate party. Failure of the Company's information systems could adversely affect the Company's business, profitability and financial condition.

Our technologies, systems and networks may be subject to cybersecurity breaches. Although we have experienced occasional, actual or attempted breaches of our cybersecurity, none of these breaches has had a material effect on our business, operations or reputation. If our systems for protecting against cybersecurity risks prove to be insufficient, we could be adversely affected by having our business systems compromised, our proprietary information altered, lost or stolen, or our business operations disrupted. As cyber attacks continue to evolve, we may be required to expend significant additional resources to continue to modify or enhance our protective measures or to investigate and remediate any information systems and related infrastructure security vulnerabilities.

#### Failure to maintain confidential information could result in a significant financial impact.

The Company maintains confidential information regarding the results of drug tests and other information including credit card and payment information from our customers. The failure to protect this information could result in lawsuits, fines or penalties. Any loss of data or breach of confidentiality, such as through a computer security breach, could expose the Company to a financial liability.

#### Our future success will depend on the continued services of our key personnel.

The loss of any of our key personnel could harm our business and prospects. We may not be able to attract and retain personnel necessary for the development of our business. We do not have key personnel under contract other than 3 officers who have agreements providing for severance and non-compete covenants in the event of termination of employment following a change of control. Further, we do not have any key man life insurance for any of our officers or other key personnel.

# There is a risk that our insurance will not be sufficient to protect us from errors and omissions liability or other claims, or that in the future errors and omissions insurance will not be available to us at a reasonable cost, if at all.

Our business involves the risk of claims of errors and omissions and other claims inherent to our business. We maintain errors and omissions and general liability insurance subject to deductibles and exclusions. There is a risk that our insurance will not be sufficient to protect us from all such possible claims. An under-insured or uninsured claim could harm our operating results or financial condition.

#### Our research and development capabilities may not produce viable new services or products.

In order to remain competitive, we need to continually improve our products, develop new technologies to replace older technologies that have either become obsolete or for which patent protection is no longer available. It is uncertain whether we will continually be able to develop services that are more efficient, effective or that are suitable for our customers. Our ability to create viable products or services depends on many factors, including the implementation of appropriate technologies, the development of effective new research tools, the complexity of the chemistry and biology, the lack of predictability in the scientific process and the performance and decision-making capabilities of our scientists. There is no guarantee that our research and development teams will be successful in developing improvements to our technology.

# Improved testing technologies, or the Company's customers using new technologies to perform their own tests, could adversely affect the Company's business.

Advances in technology may lead to the development of more cost-effective technologies that can be operated by third parties or customers themselves in their own offices, without requiring the services of a freestanding laboratory. Development of such technology and its use by the Company's customers could reduce the demand for its testing services and negatively impact our revenues.

#### We may not be able to recruit and retain the experienced scientists and management we need to compete in our industry.

Our future success depends upon our ability to attract, retain and motivate highly skilled scientists and management. Our ability to achieve our business strategies depends on our ability to hire and retain high caliber scientists and other qualified experts. We compete with other testing companies, research companies and academic and research institutions to recruit personnel and face significant competition for qualified personnel. We may incur greater costs than anticipated, or may not be successful, in attracting new scientists or management or in retaining or motivating our existing personnel.

Our future success also depends on the personal efforts and abilities of the principal members of our senior management and scientific staff to provide strategic direction, to manage our operations and maintain a cohesive and stable environment.

#### Our facilities and practices may fail to comply with government regulations.

Our testing facilities and processes must be operated in conformity with current government regulations. These requirements include, among other things, quality control, quality assurance and the maintenance of records and documentation. If we fail to comply with these requirements, we may not be able to continue our services to certain customers, or we could be subject to fines and penalties, suspension of production, or withdrawal of our certifications. We operate a facility that we believe conforms to all applicable requirements. This facility and our testing practices are subject to periodic regulatory inspections to ensure compliance.

#### Our business could be harmed from the loss or suspension of any licenses.

The forensic laboratory testing industry is subject to significant regulation and many of these statutes and regulations are subject to change. The Company cannot assure that applicable statutes and regulations will not be interpreted or applied by a regulatory authority in a manner that would adversely affect its business. Potential sanctions for violation of these regulations could include the suspension or loss of various licenses, certificates and authorizations, which could have a material adverse effect on the Company's business. In addition, potential delays in renewals of licenses could also harm the Company.

#### If our use of chemical and hazardous materials violates applicable laws or regulations or causes personal injury we may be liable for damages.

Our drug testing activities, including the analysis and synthesis of chemicals, involve the controlled use of chemicals, including flammable, combustible, and toxic materials that are potentially hazardous. Our use, storage, handling and disposal of these materials is subject to federal, state and local laws and regulations, including the Resource Conservation and Recovery Act, the Occupational Safety and Health Act and local fire codes, and regulations promulgated by the Department of Transportation, the Drug Enforcement Agency, the Department of Energy, and the California Department of Public Health and Environment. We may incur significant costs to comply with these laws and regulations in the future. In addition, we cannot completely eliminate the risk of accidental contamination or injury from these materials, which could result in material unanticipated expenses, such as substantial fines or penalties, remediation costs or damages, or the loss of a permit or other authorization to operate or engage in our business. Those expenses could exceed our net worth and limit our ability to raise additional capital.

#### Our operations could be interrupted by damage to our laboratory facilities.

Our operations are dependent upon the continued use of our laboratories and equipment in Culver City, California. Catastrophic events, including earthquakes, fires or explosions, could damage our laboratories, equipment, scientific data, work in progress or inventories of chemicals and may materially interrupt our business. We employ safety precautions in our laboratory activities in order to reduce the likelihood of the occurrence of certain catastrophic events; however, we cannot eliminate the chance that such events will occur. Rebuilding our facilities could be time consuming and result in substantial delays in fulfilling our agreements with our customers. We maintain business interruption insurance to cover continuing expenses and lost revenue caused by such occurrences. However, this insurance does not compensate us for the loss of opportunity and potential harm to customer relations that our inability to meet our customers' needs in a timely manner could create.

# Agreements we have with our employees, consultants and customers may not afford adequate protection for our trade secrets, confidential information and other proprietary information.

In addition to patent protection, we also rely on copyright and trademark protection, trade secrets, know-how, continuing technological innovation and licensing opportunities. In an effort to maintain the confidentiality and ownership of our trade secrets and proprietary information, we require our employees, consultants and advisors to execute confidentiality and proprietary information agreements. However, these agreements may not provide us with adequate protection against improper use or disclosure of confidential information and there may not be adequate remedies in the event of unauthorized use or disclosure. Furthermore, we may from time to time hire scientific personnel formerly employed by other companies involved in one or more areas similar to the activities we conduct. In some situations, our confidentiality and proprietary information agreements may conflict with, or be subject to, the rights of third parties with whom our employees, consultants or advisors have prior employment or consulting relationships. Although we require our employees and consultants to maintain the confidentiality of all proprietary information of their previous employers, these individuals, or we, may be subject to allegations of trade secret misappropriation or other similar claims as a result of their prior affiliations. Finally, others may independently develop substantially equivalent proprietary information and techniques or otherwise gain access to our trade secrets. Our failure or inability to protect our proprietary information and techniques may inhibit or limit our ability to compete effectively, or exclude certain competitors from the market.

# We are subject to numerous political, legal, operational and other risks as a result of our international operations which could impact our business in many ways.

Although we conduct a majority of our business in the United States, a significant portion of our business is derived from Brazil. Our international operations increase our exposure to the inherent risks of doing business in international markets. Depending on the market, these risks include without limitation:

- changes in the local economic environment or local laws or regulations
- political instability, social changes, local market practices and changes
- intellectual property legal protections and remedies
- trade regulations
- foreign currency exchange rate fluctuations
- attracting and retaining qualified employees and independent contractors including distributors
- export and import and exchange controls
- weak legal systems which may affect our ability to enforce contractual rights
- our reliance on one distributor in Brazil

As the Company previously disclosed, there are greater challenges and uncertainties in a new, large and developing market, such as Brazil. See Item 1. Business – Distribution, for discussion on the Company's Brazilian distributor.

International operations also require us to devote significant management resources to implement our controls and systems in new markets, to comply with the U.S. Foreign Corrupt Practices Act and similar anti-corruption laws in non-U.S. jurisdictions and to overcome challenges based on differing languages and cultures.

#### International trade policies may impact demand for our products and our competitive position.

Government policies on international trade and investment such as import quotas, capital controls or tariffs, whether adopted by individual governments or addressed by regional trade blocs, can affect the demand for our services, impact the competitive position of our products or prevent us from being able to sell products in certain countries. The implementation of more restrictive trade policies, such as more detailed inspections, higher tariffs or new barriers to entry, could negatively impact our business, results of operations and financial condition. For example, a government's adoption of "buy national" policies or retaliation by another government against such policies could have a negative impact on our results of operations.

#### Global operations are subject to extensive trade and anti-corruption laws and regulations.

The U.S. Foreign Corrupt Practices Act and similar foreign anti-corruption laws generally prohibit companies and their intermediaries from making improper payments or providing anything of value to improperly influence foreign government officials for the purpose of obtaining or retaining business, or obtaining an unfair advantage. Recent years have seen a substantial increase in the global enforcement of anti-corruption laws. Our operations outside the United States could increase the risk of such violations. Violations of anti-corruption laws or regulations by our employees or by intermediaries acting on our behalf may result in severe criminal or civil sanctions, could disrupt our business, and result in an adverse effect on our business and results of operations or financial condition.

#### We may incur additional tax expense or become subject to additional tax exposure.

We are subject to income taxes in the United States and Brazil. Our future results of operations could be adversely affected by changes in the effective tax rate as a result of a change in the mix of earnings, changes in our method of distribution in foreign countries, changes in countries with differing statutory tax rates, changes in our Brazil-derived revenues, changes in our overall profitability, changes in tax laws or treaties or in their application or interpretation, changes in tax rates, changes in generally accepted accounting principles, changes in the valuation of deferred tax assets and liabilities, changes in the amount of earnings indefinitely reinvested offshore, the results of audits and examinations of previously filed tax returns and continuing assessments of our tax exposures. We may be subject to examination of our income tax returns by the U.S. Internal Revenue Service and other tax authorities. If our effective tax rates were to increase, or if the ultimate determination of our taxes owed is for an amount in excess of amounts previously accrued, our operating results, cash flows and financial condition could be adversely affected. For information regarding additional matters related to our taxes, please see Note 5 — "Income taxes" to the financial statements included in this Annual Report.

#### Currency exchange rate fluctuations affect our results of operations, as reported in our financial statements.

We currently have revenues from many countries, however, we are only subject to currency exchange risk related to the Brazilian Real. We are subject to currency exchange rate risk to the extent that our costs are denominated in currencies other than those in which we earn revenues. In addition, while we share currency exchange risk with our Brazilian distributor on some of the tests, changes in currency exchange rates have had, and will continue to have, an impact on our revenues, results of operations and comprehensive income. There can be no assurance that currency exchange rate fluctuations will not adversely affect our results of operations, financial condition and cash flows.

We also face risks arising from the imposition of exchange controls and currency devaluations. Exchange controls may limit our ability to convert foreign currencies into U.S. dollars or to remit dividends and other payments by our foreign subsidiaries or businesses located in or conducted within a country imposing controls. Currency devaluations result in a diminished value of funds denominated in the currency of the country instituting the devaluation.

#### Risks Related to Our Stock

#### Our quarterly operating results could fluctuate significantly, which could cause our stock price to decline.

Our quarterly operating results have fluctuated in the past and are likely to fluctuate in the future. Our results are impacted by the extent to which we are able to gain new customers, both domestically and internationally, competitive pricing, and on the hiring practices of our existing customers, including seasonality. Demand for drug testing can be impacted by changes in government requirements regarding testing for drugs of abuse, delays in implementation of such requirements, as well as general economic conditions. Entering into new customer contracts can involve a long lead time. Accordingly, negotiation can be lengthy and is subject to a number of significant risks, including customers' budgetary constraints and internal reviews. Due to these and other market factors, our operating results could fluctuate significantly from quarter to quarter. In addition, we may experience significant fluctuations in quarterly operating results due to factors such as general and industry-specific economic conditions that may affect the budgets and the hiring practices of our customers.

Due to the possibility of fluctuations in our revenue and expenses, we believe that quarter-to-quarter comparisons of our operating results are not necessarily a good indication of our future performance. Our operating results in some quarters may not meet the expectations of stock market analysts and investors. If we do not meet analysts' and/or investors' expectations, our stock price could decline.

#### Our stock price could experience substantial volatility.

The market price of our common stock has historically experienced and may continue to experience extensive volatility. Our quarterly operating results, the success or failure of future development efforts, changes in general conditions in the economy or the financial markets and other developments affecting our customers, our distributors, our competitors or us could cause the market price of our common stock to fluctuate substantially. This volatility may adversely affect the price of our common stock. In the past, securities class action litigation has often been instituted following periods of volatility in the market price of a company's securities. A securities class action suit against us could result in potential liabilities, substantial costs and the diversion of management's attention and resources, regardless of whether we win or lose.

#### Payment of a dividend could decline or cease.

Because the Company has historically paid dividends, any cessation of our program or reduction in our quarterly dividend could affect our stock price. As of December 31, 2019, the Company has paid dividends on our common stock for ninety-three consecutive quarters. It is our intent to continue this practice as long as we are able. However, if we are forced to cease this practice or reduce the amount of the regular dividend, due to operating or economic conditions, our stock price could suffer. Further, if the Company ceases its future dividends, a return on investment in our common stock would depend entirely upon future appreciation. There is no guarantee that our common stock will appreciate in value or even maintain the price at which stockholders have purchased their shares.

#### The general economic condition could deteriorate.

Our business is dependent upon new hiring and the supply of new jobs created by overall economic conditions. If the economy deteriorates, leading to a downturn in new job creation, our business and stock price could be adversely affected.

#### **Item 1B. Unresolved Staff Comments**

Not applicable.

#### Item 2. Properties

The Company maintains its corporate office and northeast sales office at 289 Great Road, Acton, Massachusetts; the office consists of 6 thousand square feet and is leased through February 2023.

The Company leases two facilities for laboratory purposes in Culver City, California. The first is 14 thousand square feet of space with an additional 10 thousand square feet of storage space. This facility is leased through December 2020 with an option to renew for an additional two years. The second facility of 16 thousand square feet is leased through April 2025.

#### **Item 3. Legal Proceedings**

The Company is involved in various suits and claims in the ordinary course of business. The Company does not believe that the disposition of any such suits or claims will have a material adverse effect on the continuing operations or financial condition of the Company.

### Item 4. Mine Safety Disclosures

Not applicable.

#### PART II

#### Item 5. Market for Registrant's Common Equity, Related Shareholder Matters and Issuer Purchases of Equity Securities

The Company's common stock is traded on the NASDAQ Stock Market under the symbol "PMD". As of February 20, 2020, there were 158 record holders of the Company's common stock. The number of record owners was determined from the Company's stockholder records maintained by the Company's transfer agent and does not include beneficial owners of the Company's common stock whose shares are held in the names of various security holders, dealers and clearing agencies. The Company believes that the number of beneficial owners of the Company's common stock held by others as or in nominee names exceeds 3,000.

The following table sets forth for the periods indicated the range of prices for the Company's common stock as reported by the NASDAQ Stock Market and dividends declared by the Company.

	High		Low		Dividends	
Fiscal 2019:						
First Quarter	\$	19.64	\$	13.68	\$	0.18
Second Quarter		14.67		9.25		0.18
Third Quarter		10.36		7.12		0.18
Fourth Quarter		9.80		8.30		0.18
Fiscal 2018:						
First Quarter	\$	22.88	\$	18.69	\$	0.15
Second Quarter		21.50		17.98		0.18
Third Quarter		22.31		18.38		0.18
Fourth Quarter		19.00		13.94		0.18

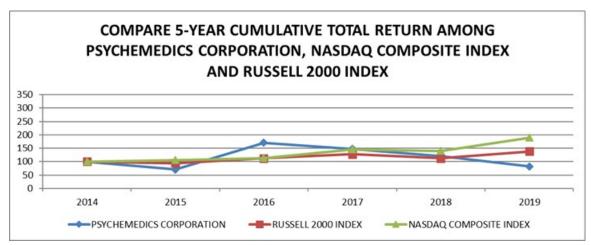
The Company has paid dividends over the past twenty-three years. It most recently declared a dividend on February 11, 2020, which will be paid on March 3, 2020. The Company's current intention is to continue to declare dividends to the extent funds are available and not required for operating purposes or capital requirements, and only then, upon approval by the Board of Directors.

#### **Issuer Purchases of Equity Securities**

During 2019, the Company did not repurchase any common shares for treasury.

#### **Unregistered Sales of Equity Securities and Use of Proceeds**

There were no unregistered sales of common stock of the Company during 2019.



Calculated by the Company using www.yahoo.com/finance historical prices

	2014	2015	2016	2017	2018	2019
PSYCHEMEDICS CORPORATION	100.00	70.89	170.83	147.59	121.19	81.58
RUSSELL 2000 INDEX	100.00	94.29	112.65	127.46	111.94	138.50
NASDAQ COMPOSITE INDEX	100.00	105.73	113.66	145.76	140.10	189.45

- (1) The above graph assumes a \$100 investment on December 31, 2014, through the end of the 5-year period ended December 31, 2019 in the Company's Common Stock, the Russell 2000 Index and the NASDAQ Composite Index. The prices all assume the reinvestment of dividends.
- (2) The Russell 2000 Index is composed of the smallest 2,000 companies in the Russell 3,000 Index. The Company has been unable to identify a peer group of companies that engage in testing of drugs of abuse, except for large pharmaceutical companies where such business is insignificant to such companies' other lines of businesses. The Company therefore uses in its proxy statements a peer index based on market capitalization.
- (3) The NASDAQ Composite Index includes companies whose shares are traded on the NASDAQ Stock Market.

#### Item 6. Selected Financial Data

The selected financial data presented below is derived from our financial statements and should be read in connection with those statements.

	Year Ended December 31,									
		2019		2018		2017		2016		2015
				(In thousar	ıds, e	xcept for pe	r sha	re data)		
Revenue	\$	37,678	\$	42,674	\$	39,701	\$	38,980	\$	26,975
Gross profit		16,444		20,618		19,822		21,450		12,717
Income from operations		2,998		7,610		8,157		10,110		1,471
Net income		1,542		4,584		6,121		6,678		1,511
Total assets		27,531		24,974		26,508		25,032		22,036
Working capital		7,016		9,810		9,640		6,359		4,564
Shareholders' equity		16,820		18,747		18,620		15,607		11,674
Basic net income per share	\$	0.28	\$	0.83	\$	1.12	\$	1.23	\$	0.28
Diluted net income per share	\$	0.28	\$	0.83	\$	1.10	\$	1.22	\$	0.28
Cash dividends declared per common share	\$	0.72	\$	0.69	\$	0.60	\$	0.60	\$	0.60

#### Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The Management's Discussion and Analysis of Financial Condition and Results of Operations should be read together with the more detailed business information and financial statements and related notes that appear elsewhere in this annual report on Form 10-K. This annual report may contain certain "forward-looking" information within the meaning of the Private Securities Litigation Reform Act of 1995. This information involves risks and uncertainties. Actual results may differ materially from the results discussed in the forward-looking statements. Factors that might cause such a difference include, but are not limited to, those discussed in Item 1A — Risk Factors.

#### Overview

Psychemedics Corporation is the world's largest provider of hair testing for drugs of abuse, utilizing a patented hair analysis method involving digestion of hair, enzyme immunoassay technology and confirmation by mass spectrometry to analyze human hair to detect abused substances. The Company's customers include Fortune 500 companies, as well as small to mid-size corporations, schools and governmental entities, located in the United States and internationally. During the year ended December 31, 2019, the Company produced \$37.7 million in revenue, while generating a gross margin of 44% and pre-tax margins of 8%. The Company had net income of \$1.5 million and diluted earnings per share of \$0.28 for the year ended December 31, 2019, a decrease of \$3.0 million, or 66% from the prior year, primarily due to lower sales volume and a one-time non-income related tax expense (included in General and administrative expense) from the repatriation of most of the company funds from Brazil to the United States. The impact of this on pre-tax income was \$0.8 million, with an after-tax impact of \$0.7 million, or \$0.12 per diluted earnings per share. Operating income in 2019 was \$3.0 million, down 61% due primarily due to lower sales volume and the one-time tax expense noted above.

At December 31, 2019, the Company had \$7.3 million of cash. During 2019, the Company had operating cash flow of \$4.3 million and it distributed approximately \$4.0 million or \$0.72 per share of cash dividends to its shareholders. In addition, the Company spent approximately \$1.7 million on equipment, leasehold improvements and software development. As of December 31, 2019, the Company has paid ninety-three consecutive quarterly cash dividends.

The following table sets forth, for the periods indicated, the selected statements of operations data as a percentage of total revenue:

_	Year Ended December 31,					
	2019	2018	2017			
Revenue	100.0%	100.0%	100.0%			
Cost of revenue	56.4%	51.7%	50.1%			
Gross profit	43.6%	48.3%	49.9%			
Operating expenses:						
General and administrative	19.2%	15.1%	14.2%			
Marketing and selling	12.4%	11.8%	11.8%			
Research and development	4.2%	3.6%	3.4%			
Total operating expenses	35.7%	30.5%	29.4%			
Operating income	8.0%	17.8%	20.5%			
Other income (expense)	0.2%	0.1%	0.1%			
Income before taxes	8.1%	17.9%	20.6%			
Provision for income taxes	4.0%	7.2%	5.2%			
Net income	4.1%	10.7%	15.4%			

# Revenue by Geographic Region

	Year Ended December 31,								
		2019		2018		2017			
Consolidated Revenue:									
United States	\$	27,329	\$	29,189	\$	26,327			
Brazil		9,819		13,046		13,069			
Other		530		439		13,069 305			
Total Revenue	\$	37,678	\$	42,674	\$	39,701			

#### Results for the Year Ended December 31, 2019 Compared to Results for the Year Ended December 31, 2018 (in thousands)

	 2019	 2018	Change	%
Revenue	\$ 37,678	\$ 42,674	\$ (4,996)	-12%
Cost of revenue	21,234	 22,056	 (822)	-4%
Gross profit	16,444	20,618	(4,174)	-20%
Operating expenses:				
General and administrative	7,221	6,430	791	12%
Marketing and selling	4,658	5,027	(369)	-7%
Research and development	1,567	1,551	16	1%
Total operating expenses	 13,446	13,008	438	3%
Operating income	2,998	7,610	(4,612)	-61%
Other income (expense)	58	43	15	35%
Income before taxes	 3,056	7,653	(4,597)	-60%
Provision for income taxes	1,514	3,069	(1,555)	-51%
Net income	\$ 1,542	\$ 4,584	\$ (3,042)	-66%

Revenue: Total revenue decline of 12% was primarily due to an 11% decrease in volume and a 1% decrease in average revenue per sample. International revenue was down 23% (due to decline in volume from unfavorable market forces in Brazil) and domestic revenue was down 6% from 2018 to 2019. See geographic breakdown of revenue above. It would appear that our Brazil driver license business will continue to decline in 2020 unless changes in the Brazilian law requiring more frequent professional driver testing that were due to go into effect in 2018, go into effect in 2020, of which there can be no assurance.

*Gross profit:* The decrease in gross profit was primarily due to lower sales volume. This lower volume was the primary factor in the gross margin reduction from 48% in 2018 to 44% in 2019. Gross profit was also adversely impacted by higher foreign taxes on Brazil revenue and additional costs related to the Company's new leased facility in California.

General and administrative ("G&A") expenses: G&A expenses included a one-time charge of \$0.8 million of taxes related to the repatriation of cash from Brazil to the United States. Without this transaction, G&A expenses would have been down 1%.

Marketing and selling expenses: The decrease in marketing and selling expenses was primarily a result of lower personnel related costs in 2019, specifically lower recruiting fees and commissions.

Income Taxes: During the year ended December 31, 2019, the Company recorded a tax provision of \$1.5 million representing a tax rate of 50% compared to a tax rate of 40% in 2018. Approximately 10% of the tax provision in 2019 was attributed to domestic taxes, with the other 90% attributed to Brazil. Brazil income taxes are based on sales, not pre-tax income which can cause significant changes to the effective tax rate. For information regarding additional matters related to our taxes, please see Note 5 — "Income taxes" to the financial statements included in this Annual Report.

#### Results for the Year Ended December 31, 2018 Compared to Results for the Year Ended December 31, 2017 (in thousands)

	 2018	 2017	Change	%
Revenue	\$ 42,674	\$ 39,701	\$ 2,973	7%
Cost of revenue	 22,056	 19,879	2,177	11%
Gross profit	20,618	19,822	796	4%
Operating expenses:				
General and administrative	6,430	5,642	788	14%
Marketing and selling	5,027	4,666	361	8%
Research and development	1,551	1,357	194	14%
Total operating expenses	13,008	11,665	1,343	12%
Operating income	7,610	8,157	(547)	-7%
Other expense	43	 20	23	115%
Income before taxes	7,653	8,177	(524)	-6%
Provision for (benefit from) income taxes	3,069	2,056	1,013	49%
Net income	\$ 4,584	\$ 6,121	\$ (1,537)	-25%

Revenue: Domestic revenue was up 11% and international revenue was up 1% from 2017 to 2018. See geographic breakdown of revenue above. Total revenue growth of 7% was primarily due to a 15% increase in volume, offset by a 6% negative impact from foreign currency exchange and a 2% impact from decrease of average revenue per sample, primarily as a result of business mix.

*Gross profit:* The increase in costs of revenue was primarily due to higher costs associated with higher volume. Gross profit was adversely impacted by foreign currency exchange as noted in revenue section above. Without this impact, gross profit percentage would have been 51% as compared to 50% in 2017.

General and administrative ("G&A") expenses: The increase in G&A expenses primarily related to additional audit related costs associated with the Company becoming an accelerated filer and implementing new accounting standards. These costs included external audit fees, internal control consultants and additional personnel. As a percentage of revenue, G&A expenses represented 15.1% in 2018 versus 14.2% in 2017.

Marketing and selling expenses: The increase in marketing and selling expenses was primarily a result of additional personnel and personnel related costs in 2018. Total marketing and selling expenses represented 11.8% of revenue for 2018 and 2017.

Research and development ("R&D"): R&D expenses represented 3.6% and 3.4% of revenue for 2018 and 2017, respectively.

Income Taxes: During the year ended December 31, 2018, the Company recorded a tax provision of \$3.1 million representing a tax rate of 40% compared to a tax rate of 25% in 2017. Approximately half of the tax provision in 2018 was attributed to domestic taxes, with the other half attributed to Brazil. The increase in 2018 was primarily due a higher tax rate impact from Brazil in 2018 and to the passing of the Tax Act in 2017. The Tax Act impacted 2017 with a benefit of \$1.2 million and it also had the effect of increasing the Brazil net tax rate, as the lower U.S. tax rate reduced the deductibility of Brazil taxes.

#### **Liquidity and Capital Resources**

The Company had \$7.3 million and \$4.1 million of cash as of December 31, 2019 and 2018, respectively. The Company also had \$3.9 million of marketable securities as of December 31, 2018. The Company's operating activities generated net cash of \$4.3 million in 2019, \$7.9 million in 2018 and \$9.1 million in 2017. Investing activities provided \$2.1 million in 2019 and used \$5.4 million in 2018 and \$1.2 million in 2017. Financing activities used \$3.0 million in 2019, \$5.6 million in 2018 and \$3.5 million in 2017.

Operating cash flow of \$4.3 million in 2019 primarily reflected net income of \$1.5 million adjusted for depreciation and amortization of \$2.9 million, stock compensation expense of \$0.8 million, and a decrease in net deferred tax liabilities of \$0.4 million. Operating cash flow was affected by the following changes in assets and liabilities: a decrease in accounts receivable of \$1.0 million, an increase in accounts payable of \$0.5 million, an increase in accrued expenses of \$0.7 million, and an increase in prepaid expenses (and other current assets) of \$0.4 million. The operating cash flow was \$3.6 million less than in 2018 which was primarily driven by lower net income.

Operating cash flow of \$7.9 million in 2018 primarily reflected net income of \$4.6 million adjusted for depreciation and amortization of \$3.1 million, stock compensation expense of \$0.6 million, and a decrease in net deferred tax liabilities of \$0.3 million. Operating cash flow was affected by the following changes in assets and liabilities: an increase in accounts receivable of \$0.4 million, an increase in accounts payable of \$0.1 million, an increase in accrued expenses of \$0.1 million, and a decrease in prepaid expenses (and other current assets) of \$0.1 million. The operating cash flow was \$1.2 million less than in 2018.

Operating cash flow of \$9.1 million in 2017 primarily reflected net income of \$6.1 million adjusted for depreciation and amortization of \$2.8 million, stock compensation expense of \$0.6 million, and an increase in net deferred tax liabilities of \$1.5 million. The net deferred tax liability was significantly different than in prior years due to change in the tax law. See income tax discussion above. Operating cash flow was affected by the following changes in assets and liabilities: a decrease in accounts receivable of \$1.3 million, a decrease in accounts payable of \$1.0 million, an increase in accrued expenses of \$0.9 million, and an increase in prepaid expenses (and other current assets) of \$0.1 million. The operating cash flow was \$0.1 million less than in 2017.

Investing cash flow principally reflected investments in marketable securities and the purchase of capital expenditures. Marketable securities transactions consisted of the sale of one CD for \$3.8 million in 2019 and the purchase of one CD for \$4.0 in 2018. Capital expenditures were \$1.7 million, \$1.2 million and \$1.2 million in 2019, 2018 and 2017, respectively. In 2019, the expenditures related principally to laboratory equipment and computer software. Capitalized patent costs and an increase in long term assets were \$56 thousand, \$133 thousand, and \$49 thousand in 2019, 2018, and 2017, respectively.

During 2019, 2018 and 2017, the Company did not repurchase any shares of common stock for treasury. The Company has authorized 750,000 shares for repurchase since June of 1998, of which 250,000 shares of common stock were authorized in March of 2008 for repurchase. Since 1998, a total of 550,684 shares have been repurchased. The Company also distributed cash dividends to its shareholders of \$4.0 million in 2019, \$3.8 million in 2018 and \$3.3 million in 2017.

At December 31, 2019, the Company's principal sources of liquidity included approximately \$7.3 million of cash and availability under an equipment financing line of credit of approximately \$1.8 million. Management currently believes that such funds, together with future operating profits, should be adequate to fund anticipated working capital requirements, including debt obligations, and capital expenditures for at least the next 12 months. Depending upon the Company's results of operations, its future capital needs and available marketing opportunities, the Company may use various financing sources to raise additional funds. Such sources could include, issuance of common stock or debt financing, lines of credit, or equipment leasing, although there is no assurance that such financings will be available to the Company on terms it deems acceptable, if at all.

At December 31, 2019, the Company has paid dividends over the past ninety-three quarters. It most recently declared a dividend on February 11, 2020 with a payment date of March 3, 2020 in the amount of \$993 thousand. The Company's current intention is to continue to declare dividends to the extent funds are available and not required for operating purposes or capital requirements, and only then, upon approval by the Board of Directors. There can be no assurance that in the future the Company will declare dividends.

## **Purchase Commitment**

Operating leases consist of rent obligations for the company's facilities and data center. The Company has no significant contractual obligation for supply agreements as of December 31, 2019.

#### **Critical Accounting Policies**

The Company's significant accounting policies are described in Note 2 to the financial statements included in Item 8 of this annual report. Management believes the most critical accounting policies are as follows:

#### Revenue Recognition

The Company is in the business of performing drug testing services and reporting the results thereof. The Company's services are primarily drug and alcohol testing for its customers for an agreed-upon fee per unit tested. The revenues are recognized when the drug test is performed and reported to the customer.

The Company records revenue for the shipping of samples from the customer or independent hair collection facility to the laboratory for customers that choose to use the Company's shipping account. The Company also records revenue for the collection of the hair sample for customers that choose to have the Company manage this process at the same time the sample test is completed and results reported to the customer. The associated costs incurred in connection with these services is recorded as costs of revenue. The Company records revenue for these services on a gross basis as it has determined it is the principal under these arrangements.

The Company also provides expert testimony, when and if necessary, to support the results of the tests, which is generally billed separately and recognized as the services are provided.

#### Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates, including bad debts, long-lived asset lives, income tax valuation, stock based compensation and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

## Capitalized Development Costs

We capitalize costs related to significant software projects developed or obtained for internal use in accordance with U.S. generally accepted accounting standards. Costs incurred during the preliminary project work stage or conceptual stage, such as determining the performance requirements, system requirements and data conversion, are expensed as incurred. Costs incurred in the application development phase, such as coding, testing for new software and upgrades that result in additional functionality, are capitalized and are amortized using the straight-line method over the useful life of the software for 5 years. Costs incurred during the post-implementation/operation stage, including training costs and maintenance costs, are expensed as incurred. We capitalized internally developed software costs of approximately \$234 thousand, \$299 thousand and \$511 thousand during the years ended December 31, 2019, 2018 and 2017, respectively. The software development is for primarily for two projects. Determining whether particular costs incurred are more properly attributable to the preliminary or conceptual stage, and thus expensed, or to the application development phase, and thus capitalized and amortized, depends on subjective judgments about the nature of the development work, and our judgments in this regard may differ from those made by other companies. General and administrative costs related to developing or obtaining such software are expensed as incurred.

#### Allowance for Doubtful Accounts

The allowance for doubtful accounts is based on management's assessment of the ability to collect amounts owed to it by its customers. Management reviews its accounts receivable aging for doubtful accounts and uses a methodology based on calculating the allowance using a combination of factors including the age of the receivable along with management's judgment to identify accounts that may not be collectible. The Company routinely assesses the financial strength of its customers and, as a consequence, believes that its accounts receivable credit risk exposure is limited. The Company maintains an allowance for potential credit losses but historically has not experienced any significant losses related to individual customers or groups of customers in any particular industry or geographic area. Bad debt expense has been within management's expectations.

#### Income Taxes

The Company accounts for income taxes using the liability method, which requires the Company to recognize a current tax liability or asset for current taxes payable or refundable and a net deferred tax liability for the estimated future tax effects of temporary differences between the financial statement and tax reporting bases of assets and liabilities to the extent that they are realizable. Deferred tax expense (benefit) results from the net change in deferred tax assets and liabilities during the year. A deferred tax valuation allowance is required if it is more likely than not that all or a portion of the recorded deferred tax assets will not be realized.

The Company operates within multiple taxing jurisdictions and could be subject to audit in these jurisdictions. These audits may involve complex issues, which may require an extended period of time to resolve. The Company has provided for its estimated taxes payable in the accompanying financial statements. The Company did not have any interest or penalties accrued as of December 31, 2019 or 2018. The Company does not expect the unrecognized tax benefits to change significantly over the next twelve months.

The Company's distribution of services in Brazil subjects the Company to Brazil income taxes. These taxes are included in the total provision for income taxes reflected in the financial statements. For information regarding additional matters related to our taxes, please see Note 5 — "Income taxes" to the financial statements included in this Annual Report.

The above listing is not intended to be a comprehensive list of all of the Company's accounting policies. In many cases, the accounting treatment of a particular transaction is specifically dictated by accounting principles generally accepted in the United States, with no need for management's judgment in their application. There are also areas in which management's judgment in selecting any available alternative would not produce a materially different result.

# **Recent Accounting Pronouncements**

See Note 2 – Summary of Significant Accounting Policies in the accompanying Notes to the Consolidated Financial Statements included in this Annual Report for further detail on recent accounting pronouncements.

#### Item 7A. Quantitative and Qualitative Disclosures About Market Risk

Not required

# Item 8. Financial Statements and Supplementary Data

# (a) Financial Statements:

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Report of Independent Registered Public Accounting Firm	19
Consolidated Balance Sheets as of December 31, 2019 and 2018	20
Consolidated Statements of Income and Comprehensive Income for the Years Ended December 31, 2019, 2018 and 2017	21
Consolidated Statements of Shareholders' Equity for the Years Ended December 31, 2019, 2018 and 2017	22
Consolidated Statements of Cash Flows for the Years Ended December 31, 2019, 2018 and 2017	23
Notes to Consolidated Financial Statements.	24

#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Shareholders and Board of Directors Psychemedics Corporation Acton, Massachusetts

#### **Opinion on the Consolidated Financial Statements**

We have audited the accompanying consolidated balance sheets of Psychemedics Corporation (the "Company") and subsidiaries as of December 31, 2019 and 2018, the related consolidated statements of income and comprehensive income, shareholders' equity, and cash flows for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company and subsidiaries at December 31, 2019 and 2018, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2019, in conformity with accounting principles generally accepted in the United States of America.

#### **Change in Accounting Principle**

As discussed in Note 2 to the consolidated financial statements, on January 1, 2019, the Company changed its method of accounting for leases due to the adoption of ASU 2016-02, *Leases* (ASC 842).

### **Basis for Opinion**

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's consolidated financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud.

Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ BDO USA, LLP

We have served as the Company's auditor since 2004.

Boston, Massachusetts February 25, 2020

# PSYCHEMEDICS CORPORATION CONSOLIDATED BALANCE SHEETS (in thousands, except par value)

	December 31, 2019	De	ecember 31, 2018
ASSETS			
Current Assets:			
Cash	\$ 7,283	\$	4,069
Marketable securities	2.700		3,905
Accounts receivable, net of allowance for doubtful accounts of \$45 in 2019 and \$67 in 2018	3,780		4,829
Prepaid expenses and other current assets			1,067
Total Current Assets	12,851		13,870
Property and equipment:  Computer software	4,166		3,914
Office furniture and equipment	,		1,997
Laboratory equipment			15,162
Leasehold improvements			2,445
<del></del>	27,059		23,518
Accumulated depreciation and amortization	,		(13,341)
	10,862		10,177
Other assets			927
Operating lease right-of-use assets			-
Total Assets	\$ 27,531	\$	24,974
LIABILITIES AND SHAREHOLDERS' EQUITY  Current Liabilities:			
Accounts payable	\$ 617	\$	682
Accrued expenses	3,577		2,962
Current portion of long-term debt	678		416
Current portion of operating lease liabilities	963		
Total Current Liabilities	5,835		4,060
Long-term debt	1,951		1,212
Deferred tax liabilities, long-term			955
Long-term portion of operating lease liabilities			-
Total Liabilities	10,711		6,227
Commitments and Contingencies (Note 9) Shareholders' Equity:			
Preferred stock, \$0.005 par value, 873 shares authorized, no shares issued or outstanding	-		-
shares issued 2018, 5,517 shares outstanding in 2019 and 5,507 shares outstanding in 2018	31		31
Additional paid-in capital	32,249		31,523
Less - Treasury stock, at cost, 668 shares.	(10,082)		(10,082)
Accumulated deficit	(3,754)		(1,326)
Accumulated other comprehensive loss	(1,624)		(1,399)
Total Shareholders' Equity	16,820		18,747
Total Liabilities and Shareholders' Equity	\$ 27,531	\$	24,974

# PSYCHEMEDICS CORPORATION CONSOLIDATED STATEMENTS OF INCOME AND COMPREHENSIVE INCOME

(in thousands, except per share amounts)

	Year Ended December 31,							
		2019	2018			2017		
Revenues Cost of revenues	\$	37,678 21,234	\$	42,674 22,056	\$	39,701 19,879		
Gross profit		16,444		20,618		19,822		
Operating Expenses:								
General & administrative		7,221		6,430		5,642		
Marketing & selling		4,658		5,027		4,666		
Research & development		1,567		1,551		1,357		
Total Operating Expenses		13,446		13,008		11,665		
Operating income		2,998		7,610		8,157		
Other income		58		43		20		
Net income before provision for income taxes		3,056		7,653		8,177		
Provision for income taxes		1,514		3,069		2,056		
Net income	\$	1,542	\$	4,584	\$	6,121		
Other Comprehensive Income (loss):								
Foreign currency translation, net of taxes		(225)		(1,161)		(238)		
Total Comprehensive Income	\$	1,317	\$	3,423	\$	5,883		
Designating come man chara	•	0.29	¢.	0.83	¢	1.12		
Basic net income per share	\$	0.28	<b>D</b>	0.83	<b>D</b>	1.12		
Diluted net income per share	\$	0.28	\$	0.83	\$	1.10		
Dividends declared per share	\$	0.72	\$	0.69	\$	0.60		
Weighted group as common shows system discu								
Weighted average common shares outstanding:  Basic		5,514		5,502		5,480		
Diluted		5,525		5,547		5,540		

# PSYCHEMEDICS CORPORATION CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY

(in thousands, except per share amounts)

	Comn	non Stock		Treasury Stock			Accumulated Other	
	Comi	\$0.005	Paid-In	Treasury Stock		Accumulated	Comprehensive	
	Shares	par Value	Capital	Shares	Cost	Deficit	Income (loss)	Total
BALANCE, December 31, 2016	6,128	31	30,603	668	(10,082)	(4,945)	-	15,607
Shares issued – vested	32	-	-	-	-	-	-	-
Exercise of stock options	-	-	35	-	-	-	-	35
Tax withholding related to vested shares from employee								
stock plans	-	-	(198)	-	-	-	-	(198)
Stock compensation expense	-	-	582	-	-	-	-	582
Cash dividends declared (\$0.60 per share)	-	-	-	-	-	(3,289)	-	(3,289)
Net income	-	-	-	-	-	6,121	-	6,121
Other comprehensive inocome (loss)	-	-	-	-	-	-	(238)	(238)
BALANCE, December 31, 2017	6,160	31	31,022	668	(10,082)	(2,113)	(238)	18,620
Shares issued – vested	15	-	-	-	-	-	-	-
Tax withholding related to vested shares from employee								
stock plans	-	-	(93)	-	-	-	-	(93)
Stock compensation expense	-	-	594	-	-	-	-	594
Cash dividends declared (\$0.69 per share)	-	-	-	-	-	(3,797)	-	(3,797)
Net income	-	-	-	-	-	4,584	-	4,584
Other comprehensive income (loss)	-	-	-	-	-	-	(1,161)	(1,161)
BALANCE, December 31, 2018	6,175	31	31,523	668	(10,082)	(1,326)	(1,399)	18,747
Shares issued – vested	10	-	-	-	-	-		-
Tax withholding related to vested shares from employee								
stock plans	-	-	(33)	-	-	-	-	(33)
Stock compensation expense	-	-	759	-	-	-	-	759
Cash dividends declared (\$0.72 per share)	-	-	-	-	-	(3,970)	-	(3,970)
Net income	-	-	-	-	-	1,542	-	1,542
Other comprehensive income (loss)	-	-	-	-	-	-	(225)	(225)
BALANCE, December 31, 2019	6,185	\$ 31	\$32,249	668	\$(10,082)	\$ (3,754)	\$ (1,624)	\$16,820

# PSYCHEMEDICS CORPORATION CONSOLIDATED STATEMENTS OF CASH FLOWS (in thousands)

	Year Ended December 31,					
		2019		2018		2017
Cash flows from operating activities:	¢.	1.542	\$	4,584	\$	6,121
Net income	\$	1,342	Ф	4,364	Ф	0,121
Adjustments to reconcile net income to net cash provided by operating activities:  Depreciation and amortization		2,914		2.062		2,807
Deferred income taxes		(405)		3,063 (288)		(1,450)
Loss on disposal of equipment.		(403)		`		(1,430)
Non-cash interest income		33		6 (41)		-
		759		594		582
Stock compensation expense		139		394		362
Accounts receivable		1,049		(355)		1,316
Other current assets		(418)		145		(133)
Accounts payable		(494)		77		(990)
Accounts payable Accrued expenses		(671)		144		893
1						
Net cash provided by operating activities	_	4,309	_	7,929	_	9,146
Cash flows from investing activities:						
Purchases of investments in marketable securities		-		(4,035)		-
Sale of investments in marketable securities		3,810		-		-
Increase in long-term assets; capitalized patent costs		(56)		(133)		(49)
Purchases of property and equipment and capitalized software development costs		(1,677)		(1,191)		(1,197)
Net cash provided by (used in) investing activities		2,077		(5,359)		(1,246)
Cash flows from financing activities:						
Dividends paid		(3,970)		(3,797)		(3,289)
Proceeds from stock options and tax withholding related to vested shares from		(3,770)		(3,771)		(3,207)
employee stock plans		(33)		(93)		(163)
Proceeds from equipment financing		1,416		(93)		2,078
Payments of equipment financing		(415)		(1,749)		(2,082)
		(3,002)				
Net cash used in financing activities		(3,002)		(5,639)		(3,456)
Effect of exchange rate changes on cash		(170)		(1,027)		(217)
Net increase (decrease) in cash		3,214		(4,096)		4,227
Cash, beginning of year		4,069		8,165		3,938
Cash, end of year	\$	7,283	\$	4,069	\$	8,165
Supplemental disclosures of cash flow information:	Φ	2 000	Φ	2.742	Ф	2.024
Cash paid for income taxes	_	2,898	\$	3,743	\$	2,824
Cash paid for interest	\$	59	\$	108	\$	70
Non-cash investing and financing activities	\$	-		(41)		-
Purchases of equipment through accounts payable and accrued liabilities	\$	1,882	\$	207	\$	25
· · · · · · · · · · · · · · · · ·						

#### 1. Nature of Business

Psychemedics Corporation (the "Company") provides hair testing for drugs of abuse, utilizing a patented hair analysis method involving digestion of hair, enzyme immunoassay and mass spectrometry to analyze hair to detect abused substances. The Company's customers include Fortune 500 companies, as well as small to mid-size corporations, schools and governmental entities located in the United States and internationally, as well as professional drivers in Brazil.

#### 2. Summary of Significant Accounting Policies

#### Risks and Uncertainties

The Company is subject to a number of risks and uncertainties similar to those of other companies, such as those associated with the continued expansion of the Company's sales and marketing network, technological developments, intellectual property protection, development of markets for new products and services offered by the Company, the economic health of principal customers of the Company, financial and operational risks associated with expansion of testing facilities used by the Company, government regulation (including, but not limited to, Food and Drug Administration regulations, Brazilian laws, proposed laws and regulations, and delays in implementation of laws and regulations), competition and general economic conditions.

#### **Estimates**

The preparation of financial statements in conformity with accounting principles generally accepted in the U.S. requires management to make estimates, including those related to bad debts, long-lived asset lives, income tax valuation and share based compensation, and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Changes in estimates are recorded in the period in which they become known.

#### Cash Equivalents

All highly liquid investments with original maturities of 90 days or less are considered cash equivalents. As of December 31, 2019 and 2018, there were no investments classified as cash equivalents.

#### Marketable Securities

All investments with original maturities of more than 90 days are considered marketable securities. As of December 31, 2019, there were no investments classified as marketable securities. As of December 31, 2018, the company had one held-to-maturity security (a CD with Bank of America in Brazil) which had an original cost of BRL 15 million (USD \$4.0 million).

#### Fair Value Measurements

The Company follows the provisions of Accounting Standards Codification (ASC) 820, Fair Value Measurements and Disclosures ("ASC 820"), which defines fair value, establishes guidelines for measuring fair value and expands disclosures regarding fair value measurements and expands disclosures regarding fair value measurements. Fair value is defined under ASC 820 as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value under ASC 820 must maximize the use of observable inputs and minimize the use of unobservable inputs. The standard describes a fair value hierarchy based on three levels of inputs, of which the first two are considered observable and the last unobservable, that may be used to measure fair value which are the following:

- Level 1 Quoted prices in active markets for identical assets or liabilities.
- Level 2 Inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities or other inputs that are observable or can be corroborated by observable market data
- Level 3 Unobservable inputs that are supported by little or no market activity and that are significant to the fair value

A financial instrument's level is based on the lowest level of any input that is significant to the fair value measurement.

The Company did not have any marketable securities as of December 31, 2019. As of December 31, 2018, the company had one CD (cash equivalents) which was classified as Level 2 with a fair market value of \$4.0 million.

#### Inventory

Some materials used in the provision of services to our customers are included in prepaid expenses and recorded to cost of revenues upon use. Most consumables such as chemicals and antibodies are expensed as purchased.

#### 2. Summary of Significant Accounting Policies (continued)

#### **Property and Equipment**

Property & equipment are stated at cost. Depreciation and amortization are provided over the estimated useful lives of the assets, using the straight-line method. Repair and maintenance costs are expensed as incurred. The estimated useful lives of the assets are:

Computer software (years)	3 to 5
Office furniture and equipment (years)	3 to 7
Laboratory equipment (years)	
Leasehold improvements	Lesser of estimated useful life or lease term

The Company recorded depreciation and amortization related to property and equipment and capitalized software of \$2.9 million, \$3.0 million, and \$2.8 million in 2019, 2018 and 2017 respectively. The Company entered into a new lease in 2019 and as of December 31, 2019, the Company had \$2.1 million of leasehold improvements to the new facility and the Company's existing facility that was not placed in service. In addition, the Company had \$0.5 million of equipment that was not placed in service as of December 31, 2019.

#### Capitalized Software Development Costs

We capitalize costs related to significant software projects developed or obtained for internal use, including costs incurred in a cloud computing arrangement. Costs incurred during the preliminary project work stage or conceptual stage, such as determining the performance requirements, system requirements and data conversion, are expensed as incurred. Costs incurred in the application development phase, such as coding, testing for new software and upgrades that result in additional functionality, are capitalized and are amortized using the straight-line method over the useful life of the software for 5 years. Costs incurred during the post-implementation/operation stage, including training costs and maintenance costs, are expensed as incurred. In accordance with Company policy, during the years ended December 31, 2019 and 2018, we capitalized internally developed software costs of \$234 thousand and \$299 thousand, respectively. Amortization expense related to software development costs was \$457 thousand, \$525 thousand and \$418 thousand in 2019, 2018, and 2017, respectively. Determining whether particular costs incurred are more properly attributable to the preliminary or conceptual stage, and thus expensed, or to the application development phase, and thus capitalized and amortized, depends on subjective judgments about the nature of the development work, and our judgments in this regard may differ from those made by other companies. General and administrative costs related to developing or obtaining such software is expensed as incurred.

#### Other Assets

Other assets primarily consist of capitalized legal costs relating to patent applications. The Company amortizes these costs over the lesser of the legal life or estimated useful life of the patent from the date of grant of the applicable patent. The typical life is twenty years. As of December 31, 2019, the Company had capitalized legal costs relating to patent applications of \$1,005 thousand with accumulated amortization of \$265 thousand, for a net balance of \$740 thousand. As of December 31, 2018, the Company had capitalized legal costs relating to patent applications of \$962 thousand with accumulated amortization of \$225 thousand, for a net balance of \$737 thousand. Amortization expense was \$40 thousand, \$38 thousand, and \$37 thousand in 2019, 2018 and 2017, respectively. The amount of amortization related to patent applications is expected to remain below \$50 thousand per year for the next five years.

#### Revenue Recognition

The Company is in the business of performing drug testing services and reporting the results thereof. The Company's services are primarily drug and alcohol testing for its customers for an agreed-upon fee per unit tested. The revenues are recognized when the drug test is performed and reported to the customer.

On January 1, 2018, the Company adopted Topic 606 using the modified retrospective method. The adoption of Topic 606 did not have a material effect on the Company's financial position or results of operations.

Revenue is recognized when control of the services is transferred to our customers, in an amount that reflects the consideration (none of which is variable) the Company expects to be entitled to in exchange for those services. The Company typically invoices customers monthly for services provided and payments are generally due within 30 to 60 days of the invoice date.

#### 2. Summary of Significant Accounting Policies (continued)

The table below disaggregates our external revenue by major source (in thousands). For additional revenue detail relating to geographic breakdown of sales, see Note 14 – "Business Segment Reporting".

	Year Ended December 31,						
		2019		2018	2017		
Consolidated Revenue:							
Testing	\$	34,555	\$	39,174	\$	36,310	
Shipping / Collection (hair)		2,876		3,159		3,018	
Other		247		341		374	
Total Revenue	\$	37,678	\$	42,674	\$	39,701	

#### Testing Revenue

Drug and alcohol tests for drugs of abuse using hair, performed in the Company's forensic laboratory in California, represents our primary service. Sales to customers are initiated through sales agreements, most of which have standard terms. Most tests are identified through a chain of custody form ("CCF") and can therefore be uniquely tracked. Revenue is recognized when performance obligations under the terms of the contract with a customer are satisfied; generally, this occurs with the transfer of control of our service, which occurs at a specific point-in-time. The specific point-in-time is the completion of the test and availability of test results to the customer. Most tests are completed the same day that the hair specimen is received.

Substantially all tests are completed within a few days. As the tests are performed in a forensic laboratory, the exact date and time of each test completion is available and used in the timing of recognition of revenue.

Revenue is measured as the amount of consideration the Company expects to receive in exchange for providing services. Sales taxes the Company pays concurrent with revenue-producing activities are excluded from revenue.

#### Shipping and Hair Collection Revenue

Shipping revenue represents the amount billed to customers related to shipping of the hair specimen and CCF ("sample") to the Company's laboratory. Collection revenue represents the amount billed to customers related to the collection of the hair specimen. This collection is done by third parties who have contracted with the Company. Shipping and hair collection revenue is recognized when performance obligations under the terms of the contract with a customer are satisfied; generally, this occurs with the transfer of control of the Company's service, which occurs at a specific point-in-time. The specific point-in-time is the completion of the test (associated with the shipping or hair collection charge) and availability of test results to the customer.

Revenue is measured as the amount of consideration the Company expects to receive in exchange for providing services. As the Company controls the service before transferring to the customer, it is considered a principal in the transaction, and therefore records revenues on gross basis, with shipping and hair collection costs in costs of revenues.

### Other Revenue

Other revenue represents several items including; urine testing performed by other labs, medical review officer charges, legal/testifying services, and other miscellaneous charges. The total of all of these items is approximately 1% of sales. The amounts are generally billed to customers as services are performed, which occurs at a specific point-in-time.

#### Practical Expedients and Exemptions

The Company generally expenses sales commissions when incurred as they are typically not related to costs to fulfill customer contracts but relate to overall sales targets. These costs are recorded within marketing and selling expense.

# Research and Development Expenses

The Company expenses all research and development costs as incurred.

#### 2. Summary of Significant Accounting Policies (continued)

#### Income Taxes

The Company accounts for income taxes using the liability method pursuant to ASC 740, "Income Taxes". Under this method, the Company recognizes deferred tax assets and liabilities for the expected tax consequences of temporary differences between the tax bases of assets and liabilities and their reported amounts using enacted tax rates in effect for the year the differences are expected to reverse. The Company evaluates uncertain tax positions annually and considers whether the amounts recorded for income taxes are adequate to address the Company's tax risk profile. The Company analyzes the potential tax liabilities of specific transactions and tax positions based on management's judgment as to the expected outcome.

#### Concentration of Credit Risk and Off-Balance Sheet Risk

The Company has no significant off-balance-sheet risk such as foreign exchange contracts, option contracts, or other foreign hedging arrangements. Financial instruments that potentially subject the Company to concentrations of credit risk are principally cash and accounts receivable. The Company's policy is to place its cash in high quality financial institutions. At time, these deposits may exceed or be exempt from federally insured limits. The Company does not believe significant credit risk exists with respect to these institutions. Concentration of credit risk with respect to accounts receivable is limited to certain customers to whom the Company makes substantial sales. To reduce risk, the Company routinely assesses the financial strength of its customers and, as a consequence, believes that its accounts receivable credit risk exposure is limited. The Company maintains an allowance for potential credit losses but historically has not experienced any significant losses related to individual customers or groups of customers in any particular industry or geographic area. The Company does not require collateral.

#### Significant Customers

The Company had one customer, Toxicologia Pardini ("Pardini Tox" - an independent distributor in Brazil) that represented 26%, 31% and 33% of total revenue for the years ended December 31, 2019, 2018 and 2017, respectively. Pardini Tox also accounted for 13% and 20% of the total accounts receivable balance as of December 31, 2019 and 2018, respectively. The Company had one other customer that accounted for 11% of the total accounts receivable balance as of December 31, 2019.

#### Stock-Based Compensation

The Company accounts for equity awards in accordance with ASC 718, "Compensation — Stock Compensation" ("ASC 718"). ASC 718 requires employee equity awards to be accounted for under the fair value method. It also requires the measurement of compensation cost at fair value on the date of grant and recognition of compensation expense over the service period for awards expected to vest. Accordingly, share-based compensation is measured at the grant date based on the fair value of the award. The Company uses the straight-line method to recognize share-based compensation over the service period of the award, which is generally equal to the vesting period. The Company uses the simplified approach to calculate the expected exercise date of options, which is one of the components used to determine the fair value of the options. This approach is used due to the small number of recipients receiving stock options not providing a reasonable basis for estimating expected term. In 2016, the Company adopted ASU 2016-09, Improvements to Employee Share-Based Payment Accounting, which simplifies several aspects of the accounting for employee share-based payment transactions including the accounting for income taxes, forfeitures, and statutory tax withholding requirements, as well as classification of related amounts within the statement of cash flows. As a result, we recognize the impact of forfeitures when they occur with no adjustment for estimated forfeitures and recognize excess tax benefits as a reduction of income tax expense regardless of whether the benefit reduces income taxes payable.

Stock compensation expense by income statement account is as follows (in thousands):

	Year Ended December 31,						
		2019		2018	2017		
Cost of revenues	\$	59	\$	62	\$	71	
General & administrative		579		436		398	
Marketing and selling		54		29		55	
Research and development		67		67		58	
Total stock compensation	\$	759	\$	594	\$	582	

See Note 7 for additional information relating to the Company's stock plan.

#### 2. Summary of Significant Accounting Policies (continued)

#### Basic and Diluted Net Income per Share

Basic net income per share is computed by dividing net income available to common shareholders by the weighted average number of common shares outstanding during the period. Diluted net income per share is computed by dividing net income available to common shareholders by the weighted average number of common shares and dilutive common stock equivalents outstanding during the period. The number of dilutive common stock equivalents outstanding during the period has been determined in accordance with the treasury-stock method. Common equivalent shares consist of common stock issuable upon the exercise of outstanding options and the unvested portion of stock unit awards ("SUAs").

Basic and diluted weighted average common shares outstanding are as follows (in thousands):

	2019	2018	2017
Weighted average common shares outstanding, basic	5,514	5,502	5,480
Dilutive common equivalent shares	11	45	60
Weighted average common shares outstanding, assuming			
dilution	5,525	5,547	5,540

For the year ended December 31, 2019, options to purchase 357 thousand common shares were outstanding but not included in the dilutive common equivalent share calculation as their effect would have been anti-dilutive. For the year ended December 31, 2018, options to purchase 86 thousand common shares were outstanding but not included in the dilutive common equivalent share calculation as their effect would have been anti-dilutive. There were no options to purchase shares that were anti-dilutive for the years ended December 31, 2017.

#### Financial Instruments

Financial instruments include cash, CD's (classified as either cash equivalents or marketable securities based on their attributes), accounts receivable and accounts payable. Estimated fair values of these financial instruments approximate carrying values due to their short-term nature. The Company has two outstanding equipment loans. One had an interest rate of the 30-day LIBOR rate + 1.75% and the other has a fixed interest rate of 3.79%. As there is a market interest rate, the carrying amount is fair value.

### Basis of Preparation and Consolidation

The consolidated financial statements, include the financial statements of the Company and its subsidiaries have been prepared using accounting principles generally accepted in the United States ("U.S. GAAP"). The financial statements of the Company and its subsidiary companies have been consolidated on a line-by-line basis by adding together like items of assets, liabilities, income and expenses. All intercompany transactions and balances have been eliminated.

#### Foreign Currency Translation

To the extent sales are made through our Brazil subsidiary, such sales are transacted in Brazilian Real and translated into US dollars. Foreign currency denominated assets and liabilities are translated into U.S. dollars using the exchange rates in effect at the consolidated balance sheet date. Results of operations and cash flows are translated using the average exchange rates throughout the period. The effect of exchange rate fluctuations on translation of assets and liabilities that are in the functional currency is included as a component of shareholders' equity in accumulated other comprehensive income (loss). The total change in foreign currency translation adjustment for the year ended December 31, 2019 and 2018 was a loss of \$0.2 million and \$1.2 million, respectively. This amounted to a \$0.2 million and \$0.9 million after tax impact.

#### Segment Reporting

The Company manages its operations as one segment, drug testing services. As a result, the financial information disclosed herein materially represents all of the financial information related to the Company's principal operating segment. See Note 14 for geographic breakdown of revenue.

### Reclassification

During the quarter ended December 31, 2019, the Company determined certain amounts related to its lease liabilities were incorrectly reclassified at September 30, 2019. The Company recorded an increase to the Company's long-term portion of operating lease liabilities of \$224 thousand and a corresponding decrease in accrued expenses and current portion of operating lease liabilities of \$81 thousand and \$143 thousand, respectively, to correct the immaterial error.

#### Subsequent Events

On February 11, 2020, the Company declared a quarterly dividend of \$0.18 per share for a total of \$993 thousand, with a payment date of March 3, 2020 to shareholders of record on February 21, 2020.

## 2. Summary of Significant Accounting Policies (continued)

#### Recently Adopted Accounting Pronouncements

In February 2016, the FASB issued ASU 2016-02, Leases, which was subsequently amended by ASU 2018-10, ASU 2018-11, ASU 2018-20 and ASU 2019-01 (collectively, Topic 842). which introduced the recognition of lease assets and lease liabilities by lessees for those leases classified as operating leases under previous guidance. The new standard established a right-of-use ("ROU") model that requires a lessee to record a lease asset and liability on the balance sheet for all leases with terms longer than 12 months. The standard became effective for fiscal years beginning after December 15, 2018 and interim periods within those fiscal years. The Company adopted Topic 842 as of January 1, 2019 (see Note 10 – Operating Leases).

In August 2018, the FASB issued ASU 2018-15, "Intangibles—Goodwill and Other—Internal-Use Software: Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract". The FASB issued ASU 2018-15 to align the requirements for capitalizing implementation costs in a cloud computing arrangement service contract with the requirements for capitalizing implementation costs incurred for an internal-use software license. ASU 2018-15 will be effective for the Company's fiscal year 2020, with the option to early adopt prior to the effective date. The Company adopted ASU 2018-15 as of January 1, 2019.

In August 2018, the SEC issued Release No. 33-10532 that amends and clarifies certain financial reporting requirements. The principal change to our financial reporting will be the inclusion of the annual disclosure requirement of changes in stockholders' equity in Rule 3-04 of Regulation S-X to interim periods. We adopted this new rule beginning with our financial reporting for the quarter ended March 31, 2019.

#### 3. Accounts Receivable

The Company maintains an allowance for uncollectible accounts receivable based on management's assessment of the collectability of its customer accounts by reviewing customer payment patterns and other relevant factors. The Company reviews the adequacy of the allowance for uncollectible accounts on a quarterly basis and adjusts the balance as determined necessary. Write-offs are recorded at the time a customer account is deemed uncollectable. The following is a rollforward of the Company's allowance for doubtful accounts (in thousands):

	As of December 31,				
		2019		2018	
Balance, beginning of period	\$	67	\$	64	
Provision for doubtful accounts		11		40	
Write-offs		(33)		(37)	
Balance, end of period	\$	45	\$	67	

# 4. Accrued Expenses

Accrued expenses consist of the following (in thousands):

	As of December 31,					
		2019		2018		
Accrued payroll and employee benefits	\$	342	\$	363		
Accrued bonus expense		108		302		
Accrued vacation expense		399		514		
Accrued taxes		564		614		
Accrued shipping expense		368		688		
Accrued payables for equipment and leasehold						
improvements		1,453		-		
Other accrued expenses		343		481		
Total Accrued Expenses	\$	3,577	\$	2,962		

## 5. Income Taxes

The income tax provision consists of the following (in thousands):

	Year Ended December 31,								
		2019		2018		2017			
Current –									
Federal	\$	1,478	\$	2,117	\$	2,507			
State		54		119		101			
Foreign		348		1,122		898			
Total Current		1,880		3,358		3,506			
Deferred –		_				_			
Federal		(139)		(168)		(1,326)			
State		(227)		(121)		(124)			
Total Deferred		(366)		(289)		(1,450)			
Income Tax Provision	\$	1,514	\$	3,069	\$	2,056			

A reconciliation of the effective rate with the federal statutory rate is as follows:

	Year Ended December 31,						
-	2019	2018	2017				
Federal statutory rate	21.0%	21.0%	34.0%				
State income taxes, net of federal benefit	(4.5%)	0.0%	(0.2%)				
Permanent differences	(8.1%)	0.2%	0.4%				
Stock based compensation	1.3%	0.1%	(0.7%)				
Federal R&D Credits	(4.7%)	(1.7%)	(1.3%)				
Foreign Taxes, net of federal benefit	44.5%	20.5%	7.1%				
Federal Deferred Rate Decrease	0.0%	0.0%	(14.2%)				
Effective tax rate	49.5%	40.1%	25.1%				

The change in effective tax rate from 2018 to 2019 was primarily driven by the proportionate impact that income taxes based on Brazilian sales had on a reduced 2019 pre-tax income amount. While taxes on Brazilian sales were relatively consistent in both years, the Company's profit before taxes decreased from \$7.7 million in 2018 to \$3.1 million in 2019. As of December 31, 2019, there were no Federal tax credit carryforwards from 2018 and there were \$998 thousand of California tax credit carryforwards relating to the years 2012 through 2019 which have an unlimited carryforward period. In 2019, the (4.5)% state income tax effective rate primarily consisted of California research tax credits of (4.3)%.

#### 5. Income Taxes (continued)

The components of the net deferred tax liabilities included in the accompanying balance sheets are as follows (in thousands):

	As of December 31,				
		2019		2018	
Deferred Tax Assets					
Allowance for doubtful accounts	\$	10	\$	15	
Accrued expenses		87		112	
Stock-based compensation		195		114	
R&D tax credits		788		675	
Operating lease		764		-	
Total Deferred Tax Assets	\$	1,844	\$	916	
Deferred Tax Liabilities					
Excess of tax over book depreciation and amortization	\$	(1,696)	\$	(1,832)	
Prepaid expenses		(40)		(39)	
Operating lease		(658)		-	
Total Deferred Tax Liabilities		(2,394)		(1,871)	
Net Deferred Tax Liabilities	\$	(550)	\$	(955)	

Income taxes are recorded in accordance with FASB ASC Topic 740, Income Taxes ("ASC 740"), which provides for deferred taxes using an asset and liability approach. The Company recognizes deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements or tax returns. Deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. A valuation allowance is provided, if, based upon the weight of available evidence, it is more likely than not that some or all of the net deferred tax assets will not be realized.

ASC 740 contains a two-step approach to recognizing and measuring uncertain tax positions (tax contingencies). The first step is to evaluate the tax position for recognition by determining if the weight of available evidence indicates it is more likely than not that the position will be sustained on an audit, including resolution of related appeals or litigation processes, if any. The second step is to measure the tax benefit as the largest amount which is more than 50% likely of being realized upon ultimate settlement. The Company considers many factors when evaluating and estimating the Company's tax positions and tax benefits, which may require periodic adjustments and which may not accurately forecast actual outcomes. The Company had no uncertain tax positions at December 31, 2019 or 2018.

The Company operates within multiple taxing jurisdictions and could be subject to audit in these jurisdictions. These audits may involve complex issues, which may require an extended period of time to resolve. The Company has provided for its estimated taxes payable in the accompanying financial statements. The Company's policy is to recognize interest and penalties related to income tax matters as a general and administrative expense, when and if incurred. The Company did not have any interest or penalties accrued as of December 31, 2019 or 2018. In 2019, the I.R.S. completed a standard review of the Company's 2016 tax year. The tax years ended December 31, 2017 through December 31, 2019 remain subject to examination by all major taxing authorities.

The net income before income taxes was \$3.1 million and \$7.7 million for the years ended December 31, 2019 and 2018, respectively. Net loss before income taxes in Brazil was \$1.1 million for the year ended December 31, 2019 and net income before income taxes in Brazil was \$5.9 million for the year ended December 31, 2018. The pre-tax loss in Brazil in 2019 was a result of having no sales conducted through the Company's Brazilian subsidiary and tax expense was incurred with the repatriation of cash from Brazil to the United States.

#### 6. Preferred Stock

The Board of Directors has the authority to designate authorized preferred shares in one or more series and to fix the relative rights and preferences without vote or action by the stockholders. The Board of Directors has no present plans to designate or issue any shares of preferred stock.

#### 7. Stock-Based Awards

The 2006 Incentive Plan initially adopted in 2006 provides for grants of options with terms of up to ten years, grants of restricted stock or stock unit awards (SUAs), issuances of stock bonuses or grants other stock-based awards plus cash based awards, to officers, directors, employees, and consultants. Such shares are issuable out of the Company's authorized but unissued common stock. In January 2019, the 2006 Incentive Plan was amended to increase the total number of shares issuable thereunder from 850 thousand to 1.2 million. As of December 31, 2019, 226 thousand shares remained available for future grant under the 2006 Incentive Plan.

#### 7. Stock-Based Awards (continued)

The fair value of the SUAs is determined by the closing price on the date of grant. The fair value of options is determined using a Black-Scholes model. The SUAs and options vest over a period of two to four years and are convertible or exercisable into an equivalent number of shares of the Company's common stock provided that the employee receiving the award remains continuously employed throughout the vesting period. The Company records compensation expense related to the SUAs and options on a straight-line basis over the vesting term. Employees are issued shares upon vesting of SUAs, net of tax withholdings. As a result of our adoption of ASU 2016-09 in 2016, we recognize the impact of forfeitures when they occur with no adjustment for estimated forfeitures and recognize excess tax benefits as a reduction of income tax expense regardless of whether the benefit reduces income taxes payable.

On May 3, 2019, the Company granted SUAs covering 18 thousand shares of common stock and options to acquire up to 192 thousand shares of common stock. The SUAs vest over a period of two years for non-employee board members and four years for employees and are convertible into an equivalent number of shares of the Company's common stock provided that the director or employee receiving the award remains employed throughout the vesting period. The stock options become exercisable over two years for non-employee board members and three to four years for employees and have a term of 10 years. The Company records compensation expense related to the SUAs and options on a straight-line basis over the vesting term. Employees are issued shares upon vesting, in the case of SUA's or upon exercise of options, net of tax withholdings, unless the employee chooses to receive all shares and pay for the associated employment taxes. No other types of equity-based awards have been granted or issued under the 2006 Incentive Plan.

The following table represents all shares granted by the Company under the 2006 Incentive Plan for the last three years (shares in thousands):

				Fair Value
Grant Date	Type	Shares	Pe	r Share (1)
May 3, 2019	Options	192	\$	2.99
May 3, 2019	SUA	18	\$	10.60
July 24, 2018	Options	2	\$	5.49
May 3, 2018	SUA	6	\$	21.04
May 3, 2018	Options	117	\$	5.69
May 4, 2017	Options	121	\$	4.46
May 4, 2017	SUA	13	\$	18.87

(1) The fair value for the SUA's is the closing price of the Company's stock on that date. The fair value for options represents the fair value calculated using the Black-Scholes model. Options have contractual lives of 10 years and the fair value calculated using a Black-Scholes model. The options granted on May 4, 2017 have a fair value of \$4.46 per share based on the \$18.87 grant date and exercise prices and assuming a 6.25 year estimated term, 37% volatility, 2.75% interest rate and a 4.7% dividend yield rate. The options granted on May 3, 2018 have a fair value of \$5.69 per share based on the \$21.04 grant date and exercise prices and assuming 6.25 and 5.75 year estimated terms, 38% volatility, 3.4% interest rate and a 4.2% dividend yield rate. The options granted on July 24, 2018 have a fair value of \$5.49 per share based on the \$19.83 grant date and exercise prices and assuming a 6.25 year estimated term, 39% volatility, 3.4% interest rate and a 4.1% dividend yield rate. The options granted on May 3, 2019 have a fair value of \$2.99 per share based on the \$10.60 grant date and exercise prices and assuming 6.25 and 5.75 year estimated terms, 41% volatility, 2.4% interest rate and a 3.9% dividend yield rate.

A summary of the Company's stock option activity is as follows (in thousands, except price per share):

	Weighted Average Number of Exercise Price Shares per Share		Weighted Average Remaining Contractual Life (in years)	Aggregate Intrinsic Value <sup>(2)</sup>	
Outstanding, December 31, 2018	398	\$	17.09	8.2	\$ 493
Granted	192	\$	10.60		
Exercised	-	\$	-		
Forfeited	(6)	\$	19.86		
Outstanding, December 31, 2019	584	\$	14.94	7.9	\$ 
Exercisable, December 31, 2019	246	\$	14.37	6.9	\$ _

(2) The aggregate intrinsic value on this table was calculated based on the amount, if any, by which the closing market price of the Company's stock on December 31 of the applicable year exceeded the exercise price of any of the underlying options, multiplied by the number of shares subject to each such option. The closing stock price as of December 31, 2019 and 2018 was \$9.15 and \$15.87, respectively.

#### 7. Stock-Based Awards (continued)

A summary of the Company's stock unit award activity is as follows (in thousands, except price per share):

	Number of Shares	Weighted Average Price per Share (3)	Weighted Average Fair Value (3)
Outstanding & Unvested, December 31, 2018	19	\$ 18.20	\$ 343
Granted	18	\$ 10.60	\$ 191
Converted to common stock	(10)	\$ 17.63	\$ (171)
Cancelled	(3)	\$ 17.63	\$ (52)
Forfeited		\$ -	\$ 
Outstanding & Unvested, December 31, 2019	24	\$ 12.84	\$ 311

(3) Weighted average price per share is the weighted grant price based on the closing market price of each of the stock grants related to each transaction type. The weighted average fair value is the weighted average share price times the number of shares.

The fair value of stock unit award vesting was \$223 thousand, \$308 thousand and \$554 thousand for the years ended December 31, 2019, 2018 and 2017, respectively. The intrinsic value of stock unit awards converted to common stock was based on the stock price on the vesting date and amounted to \$144 thousand, \$493 thousand and \$776 thousand for the years ended December 31, 2019, 2018 and 2017, respectively.

As of December 31, 2019, a total of 834 thousand shares of common stock were reserved for issuance under 2006 Incentive Plan. As of December 31, 2019, the unamortized fair value of outstanding options and awards was \$1.1 million to be amortized over a weighted average period of approximately 2.8 years.

# 8. Employee Benefit Plan

The Psychemedics Corporation 401(k) Savings and Retirement Plan (the 401(k) Plan) is a qualified defined contribution plan in accordance with Section 401(k) of the Internal Revenue Code. All employees over the age of 21 are eligible to make pre-tax contributions up to a specified percentage of their compensation. Under the 401(k) Plan, the Company may, but is not obligated to, match a portion of the employees' contributions up to a defined maximum. Matching contributions of \$262 thousand, \$264 thousand and \$246 thousand were made in the years ended December 31, 2019, 2018 and 2017, respectively.

# 9. Commitments and Contingencies

# Commitments

The Company leases certain of its facilities and equipment under operating lease agreements expiring on various dates through February 2023. Total minimum lease payments, including scheduled increases, are charged to operations on the straight-line basis over the life of the respective lease. Rent expense was approximately \$1.2 million, \$1.0 million and \$0.9 million in 2019, 2018 and 2017, respectively. See Note 10 – Operating Leases for commitments remaining under lease agreements.

## **Contingencies**

The Company is subject legal proceedings and claims in the ordinary course of its business. The Company believes that although there can be no assurance as to the disposition of these proceedings, based upon information available to the Company as of the timing of filing of this report, the expected outcome of these matters would not have a material impact on the Company's results of operations or financial condition.

# 10. Operating Leases

The Company has six operating leases for office and laboratory space used to conduct business. The exercise of lease renewal options is at our discretion and there are no renewals to extend the lease terms included in our Right-Of-Use ("ROU") assets and lease liabilities as they are not reasonably certain of exercise. The Company regularly evaluates the renewal options and when they are reasonably certain of exercise. As most of the Company's leases do not provide an implicit rate, the Company uses the incremental borrowing rate based on the information available at the lease commencement date in determining the net present value (NPV) of the lease payments.

As of December 31, 2019, the Company recognized a Right-Of-Use ("ROU") asset of \$2.9 million and an operating lease liability of \$3.3 million based on the present value of the minimum rental payments as a result of adoption of ASC Topic 842. The weighted average discount rate used for leases as of December 31, 2019 is 4.0%. The weighted average lease term as of December 31, 2019 is 4.4 years. The operating lease expense for the twelve months ended December 31, 2019 was \$1.2 million.

Maturities and balance sheet presentation of the Company's lease liabilities for all operating leases as of December 31, 2019 is as follows (in thousands):

2020	\$ 1,0	79
2021	6	44
2022	6	19
2023	5	84
2024	5	82
2025	1	45
Total Lease Payments	3,6	53
Less Interest:	(3	15)
Present value of lease liabilities	\$ 3,3	38
Current operating lease liabilities	\$ 9	63
Long-term operating lease liabilities	2,3	75
Total	\$ 3,3	38

## 11. Debt and Other Financing Arrangements

On March 20, 2014, the Company entered into an equipment financing arrangement with Banc of America Leasing & Capital, LLC (the "Lender"), which it amended on August 8, 2014, September 15, 2015, October 30, 2017, and December 2, 2019, including a Master Loan and Security Agreement and related documentation (collectively the "Equipment Loan Arrangement") which provided the Company with the ability to finance, at its option, up to \$16 million of new and used equipment purchases. Each such purchase financed under the Equipment Loan Arrangement is documented by the execution of an equipment note. Each note has a maturity date of 60 months from the applicable loan date. The loan on October 30, 2017 bears interest at the then current 30-day LIBOR rate + 1.75% and for the loan made on December 2, 2019 a fixed interest rate of 3.79%. Principal and interest are payable over the 60-month repayment period and principal is repayable without premium or penalty. Borrowings under the Equipment Loan Arrangement are secured by a first priority security interest in the equipment acquired with the proceeds of the equipment notes. Under the Equipment Loan Arrangement, the Company is subject to a maximum quarterly funded debt to EBITDA ratio and a minimum fixed charge coverage ratio. The Company was in compliance with all loan covenants as of December 31, 2019. The total book value of equipment pledged as collateral for these loans as of December 31, 2019 was \$4.2 million.

Under the Equipment Loan Arrangement, the Company executed notes on March 24, 2014, May 22, 2014, June 13, 2014, August 8, 2014, September 15, 2015, March 23, 2016, November 10, 2017, and December 4, 2019 in the amounts of \$1.1 million, \$1.9 million, \$3.0 million, \$1.0 million, \$1.1 million, \$610 thousand, \$2.1 million, and \$1.4 million, respectively, for total borrowings of \$12.2 million, of which \$0.4 million and \$1.7 million was repaid in 2019 and 2018, respectively. As of December 31, 2019, only the note from November 10, 2017 and December 4, 2019 had a balance as all other notes with balances were paid off in 2018. The weighted average interest rate for these notes for the year ended December 31, 2019 was 4% and represented \$59 thousand of interest expense. As of December 31, 2019, weighted average interest rate was 3.7%.

**Quarter Ended - 2019** 

The annual principal repayment requirements for debt obligations as of December 31, 2019 are as follows (in thousands):

2020	\$ 678
2021	688
2022	664
2023	294
2024	305
Total long-term debt	2,629
Less current portion of long-term debt	(678)
Total long-term debt, net of current portion	1,951

## 12. Selected Quarterly Financial Data (Unaudited)

The following are selected quarterly financial data for the years ended December 31, 2019 and 2018 (in thousands):

	Quarter Ended - 2017									
		MAR 31		<b>JUN 30</b>		SEP 30		DEC 31		
Revenues	\$	9,822	\$	9,289	\$	9,852	\$	8,715		
Gross profit		4,408		4,169		4,382		3,485		
Income (loss) from operations		944		1,326		1,334	\$	(606)		
Net income (loss)		627		768		677	\$	(530)		
Basic net income (loss) per share	\$	0.11	\$	0.14	\$	0.12	\$	(0.09)		
Diluted net income (loss) per share	\$	0.11	\$	0.14	\$	0.12	\$	(0.09)		
	Quarter Ended - 2018									
		MAR 31		<b>JUN 30</b>		SEP 30		DEC 31		
Revenues	\$	10 935	\$	10.787	\$	11.016	\$	9 936		

	MAR 31	JUN 30		SEP 30		DEC 31
Revenues	\$ 10,935	\$	10,787	\$ 11,016	\$	9,936
Gross profit	5,355		5,172	5,358		4,733
Income from operations	1,906		2,056	2,120		1,528
Net income	1,251		1,177	1,275		881
Basic net income per share	\$ 0.23	\$	0.21	\$ 0.23	\$	0.16
Diluted net income per share	\$ 0.23	\$	0.21	\$ 0.23	\$	0.16

# 13. Other income (expense)

Other income consists primarily of interest income related to short term CD's partially offset by interest expense related to the Company's equipment financing arrangement. Interest income for the year ended December 31, 2019 and 2018 was \$134 thousand \$149 thousand, respectively. There was no interest income for the year ended December 31, 2017. Interest expense for the year ended December 31, 2019, 2018 and 2017 was \$59 thousand, \$106 thousand and \$72 thousand, respectively.

#### 14. Business Segment Reporting

The Company manages its operations as one segment, drug testing services. As a result, the financial information disclosed herein materially represents all of the financial information related to the Company's principal operating segment. All Brazil sales are though one independent distributor, which is the only customer greater than 10% of sales. The Company's revenues by geographic region are as follows (in thousands):

Year Ended December 31,				
2019	2018		2017	
\$ 27,329	\$	29,189	\$	26,327
9,819		13,046		13,069
530		439		305
\$ 37,678	\$	42,674	\$	39,701
\$	2019 \$ 27,329 9,819 530	2019 \$ 27,329 \$ 9,819	2019         2018           \$ 27,329         \$ 29,189           9,819         13,046           530         439	2019     2018       \$ 27,329     \$ 29,189       9,819     13,046       530     439

All the Company's operations are in the United States. Assets in Brazil consist primarily of Cash, Cash Equivalents and Marketable Securities. The Company's assets by geographic region are as follows (in thousands):

	As of December 31,			
Assets:	2019		2018	
United States	\$ 27,091	\$	20,314	
Brazil	440		4,660	
Total Assets	\$ 27,531	\$	24,974	

#### Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

#### Item 9A. Controls and Procedures

#### a) Evaluation of Disclosure Controls and Procedures

The Company carried out an evaluation as of December 31, 2019, under the supervision and with the participation of our management, including our Chief Executive Officer and Vice President of Finance, as well as a third party internal control firm, of the effectiveness of the design and operation of our disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act. Based upon that evaluation, our Chief Executive Officer and Vice President of Finance have concluded that our disclosure controls and procedures were effective as of December 31, 2019 to ensure that information required to be disclosed in the reports that the Company files or submits under the Exchange Act is (i) recorded, processed, summarized and reported, within the time periods specified in the Securities and Exchange Commission's rules and forms and (ii) accumulated and communicated to our management, including our Chief Executive Officer and Vice President of Finance, as appropriate to allow timely decisions regarding required disclosure.

#### b) Management's Report on Internal Control over Financial Reporting

The Company's management is responsible for establishing and maintaining an adequate system of internal control over financial reporting, as defined in Exchange Act Rule 13a-15(f) and 15d-15(f). The Company's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with GAAP.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Therefore, even those systems determined to be effective can provide only reasonable assurance, as opposed to absolute assurance, of achieving their internal control objectives.

Management conducted an assessment of the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in the 2013 Internal Control – Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on the assessment, management concluded that, as of December 31, 2019, the Company's internal control over financial reporting is effective.

# c) Changes in Internal Control over Financial Reporting

There was no change the Company's internal control over financial reporting during the Company's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting.

None

#### **PART III**

## Item 10. Directors, Executive Officers and Corporate Governance

Following is a list that sets forth as of February 25, 2020 the names, ages and positions within the Company of all of the Executive Officers of the Company and the Directors of the Company. Each such director has been nominated for reelection at the Company's 2020 Annual Meeting, to be held on May 14, 2020 at 2:00 P.M. at the Park Plaza Hotel, 50 Park Plaza, Boston, Massachusetts.

Name	Age	<b>Position</b>
Raymond C. Kubacki	75	Chairman, Chief Executive Officer, President, Director
Charles Doucot	54	Executive Vice President
Neil Lerner	52	Vice President, Finance
Michael I. Schaffer, Ph.D	75	Vice President, Laboratory Operations
Harry Connick	94	Director, Audit Committee Member, Compensation Committee Member,
		Nominating Committee Member
Walter S. Tomenson, Jr	73	Director, Audit Committee Member, Compensation Committee Member,
		Nominating Committee Member
A. Clinton Allen	76	Director, Audit Committee Member, Nominating Committee Member
Fred J. Weinert	72	Director, Audit Committee Member, Compensation Committee Member,
		Nominating Committee Member, Brazil Oversight Committee Member

All Directors hold office until the next annual meeting of stockholders or until their successors are elected. Officers serve at the discretion of the Board of Directors.

Mr. Kubacki has been the Company's President and Chief Executive Officer since 1991. He has also served as Chairman of the Board of the Company since 2003. From March 2011 until June 2017, he served as a director of Integrated Environmental Technologies, Ltd. From 2007 until 2010, he served as a director of Protection One, Inc. and from 2004 to 2007 he served as a director of Integrated Alarm Services Group, Inc. He is also a trustee of the Center for Excellence in Education based in Washington, D.C. and holds an Executive Masters Professional Director Certification, their highest level award, from the American College of Corporate Directors, a public company director education and credentialing organization. Mr. Kubacki has been a director of the Company since 1991.

Mr. Doucot has served as Executive Vice President since January 2019. From May 2018 until January 2019, he served as Vice President Sales & Marketing. Prior to joining the Company, he served as Vice President Sales & GM of Burning Glass Technologies, a data analytics company, from January 2016 to December 2017. From April 2014 to January 2016 he served as Sr. VP and GM at Lumesse, an HR technology company, responsible for the Americas Business and starting a new business unit. From August 2009 to February 2014 he served as VP WW Sales and Marketing for Kalido, a big data and analytics company. Mr. Doucot began his career spending over 15 years at Hewlett-Packard Company with increasing levels of global responsibility.

Mr. Lerner has served as Vice President, Finance and Treasurer since May 2011. From October 2010 until May 2011, he served as Vice President, Controller. Prior to joining the Company, he served as Director of Operational Accounting at Beacon Roofing Supply, Inc., Corporate Controller with Atlas TMS, Divisional Controller with Mastec, Inc, and multiple financial management roles with Johnson & Johnson. Mr. Lerner is a Certified Public Accountant and has a Masters degree in International Management.

Dr. Schaffer has served as Vice President of Laboratory Operations since 1999. Since December 2016, he has served as a member of the Drug Testing Advisory Board (DTAB) which advises the administrator of Substance Abuse and Mental Health Services Administration (SAMHSA) on drug testing activities and laboratory certification. From 1990 to 1999, he served as Director of Toxicology, Technical Manager and Responsible Person for the Leesburg, Florida laboratory of SmithKline Beecham Clinical Laboratories. From 1990 to 1999, he was also a member of the Board of Directors of the American Board of Forensic Toxicologists. Dr. Schaffer has also served as an inspector for the College of American Pathologists since 1990.

Mr. Connick served as District Attorney for Orleans Parish (New Orleans, LA) from 1974 to 2003. In 2002 Mr. Connick received from Drug Czar, John P. Walters, the Director's Award for Distinguished Service, in recognition of exemplary accomplishment and distinguished service in the fight against illegal drugs. Mr. Connick has been a director of the Company since 2003.

Mr. Tomenson was a senior advisor to Integro Ltd., having retired in 2011. Mr. Tomenson was Managing Director and Chairman of Client Development of Marsh, Inc. from 1998 until 2004. From 1983 to 1998 he was Chairman of FINPRO, the financial/professional services division of Marsh, Inc. Mr. Tomenson is a Trustee of Trinity College School Fund, Inc. He also serves on the Executive Council of Inner-City Scholarship Fund. He is a board member and Vice-Chairman of the Achievement Centers for Children and Families (Delray Beach, FL). Mr. Tomenson holds an Executive Masters Professional Director Certification, their highest level award, from the American College of Corporate Directors, a public company director education and credentialing organization. Mr. Tomenson has been a director of the Company since 1999.

Mr. Allen is Chairman and Chief Executive Officer of A.C. Allen & Company, Inc., a holding company, and principal of the American College of Corporate Directors, an organization that provides educational and other services to public company directors, chief executive officers and corporate counsel. Mr. Allen also serves on the Board of Directors of Brooks Automation (BRKS: Nasdaq) and is Lead Director of LKQ Corporation (LKQ:NASDAQ), a Fortune 500 Company. Mr. Allen had previously served as a director of the Company from 1989 until 2003. He served as Vice-Chairman of the Company from 1990 to 2000 and Chairman from 2000 to 2003. He rejoined the Board as an independent member in 2015. Mr. Allen holds an Executive Masters Professional Director Certification from the American College of Corporate Directors.

Mr. Weinert is an entrepreneur whose current activities are concentrated in commercial real estate, international business development and environmental consulting. He served on the Business Advisory Council for the University of Dayton from 1984 until 2005. From 1973 until 1989, Mr. Weinert held various executive positions in the Finance and Operations groups of Waste Management, Inc. and its subsidiaries, including 6 years as the President of Waste Management International, Inc. Mr. Weinert has been a director of the Company since 1991.

The information required by Item 405 of Regulation S-K will be set forth in the Proxy Statement of the Company relating to the 2020 Annual Meeting of Stockholders to be held on May 14, 2020 and is incorporated herein by reference.

The Company has a code of ethics that applies to all employees and non-employee directors. This code satisfies the requirements set forth in Item 406 of Regulation S-K and applies to all relevant persons set forth therein. The Company will mail to interested parties a copy of the Code of Ethics upon written request and without charge. Such request shall be made to our General Counsel, 289 Great Road, Acton, Massachusetts 01720.

The information required by Item 407 of Regulation S-K will be set forth in the Proxy Statement of the Company relating to the 2020 Annual Meeting of Stockholders to be held on May 14, 2020 and is incorporated herein by reference.

### **Item 11. Executive Compensation**

The information required by this item will be set forth in the Proxy Statement of the Company relating to the 2020 Annual Meeting of Stockholders to be held on May 14, 2020 and is incorporated herein by reference.

#### Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this item will be set forth in the Proxy Statement of the Company relating to the 2020 Annual Meeting of Stockholders to be held on May 14, 2020 and is incorporated herein by reference.

#### Item 13. Certain Relationships and Related Transactions and Director Independence

The information required by this item will be set forth in the Proxy Statement of the Company relating to the 2020 Annual Meeting of Stockholders to be held on May 14, 2020 and is incorporated herein by reference.

### Item 14. Principal Accounting Fees and Services

The information required by this item will be set forth in the Proxy Statement of the Company relating to the 2020 Annual Meeting of Stockholders to be held on May 14, 2020 and is incorporated herein by reference.

### PART IV

### Item 15. Exhibits, Financial Statement Schedules

- (a) (1) Financial Statements required by Item 15 are included and indexed in Part II, Item 8
- (a) (2) Financial Statement Schedules included in Part IV of this report. Schedule II is omitted because information is included in Notes to Financial Statements. All other schedules under the accounting regulations of the SEC are not required under the related instructions and are inapplicable and, thus have been omitted.
  - (a) (3) See "Exhibit Index" included elsewhere in this Report.

#### Item 16. Form 10-K Summary

None

## **SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized.

## **PSYCHEMEDICS CORPORATION**

Date: February 25, 2020

By: /s/ RAYMOND C. KUBACKI

Raymond C. Kubacki

Chairman, President and Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

/s/ RAYMOND C. KUBACKI Chairman, President and Chief Executive Officer, Director February 25, 2020

Raymond C. Kubacki (Principal Executive Officer)

/s/ NEIL LERNER Vice President, Finance February 25, 2020

Neil Lerner (Principal Financial and Accounting Officer)

HARRY CONNICK\* Director

Harry Connick

WALTER S. TOMENSON, JR\* Director

Walter S. Tomenson, Jr.

FRED J. WEINERT\* Director

Fred J. Weinert

A. CLINTON ALLEN\* Director

A. Clinton Allen

\*By: /s/ RAYMOND C. KUBACKI Attorney-in-Fact February 25, 2020

Raymond C. Kubacki





## MANAGEMENT AND CORPORATE INFORMATION

#### **BOARD OF DIRECTORS**

Raymond C. Kubacki Chairman, President and C.E.O.

Harry Connick Independent Director

Walter S. Tomenson, Jr. Independent Director

Fred J. Weinert Independent Director

A. Clinton Allen Independent Director

## **COUNSEL**

Lynch Fink & Labelle LLP Boston, Massachusetts

#### **AUDITORS**

BDO USA, LLP Boston, Massachusetts

#### TRANSFER AGENT

Computershare P.O. BOX 505000 Louisville, KY 40233-5000

Overnight correspondence should be sent to:

Computershare 462 South 4<sup>th</sup> Street, Suite 1600 Louisville, KY 40202

1-877-373-6374 (781-575-3120)

Internet Address: www.computershare.com

#### ANNUAL MEETING

The 2020 Annual Meeting of Stockholders will be held on May 14, 2020 at 2:00 p.m. at:

Boston Park Plaza Hotel 50 Park Plaza Boston, Massachusetts

#### CORPORATE OFFICERS

Raymond C. Kubacki Chairman, President and C.E.O.

Charles Doucot

**Executive Vice President** 

Michael I. Schaffer, Ph.D.

Vice President, Laboratory Operations

Neil Lerner

Vice President, Finance

#### CORPORATE INFORMATION

WEBSITE: www.psychemedics.com

Stock Exchange Symbol: PMD - NASDAQ

### **CORPORATE OFFICES**

Corporate Headquarters: 289 Great Road, #200 Acton, Massachusetts 01720

Primary Laboratory Facility: 5832 Uplander Way Culver City, California 90230

#### **FORM 10-K**

A copy of the Company's Form 10-K, as filed with the Securities and Exchange Commission, may be obtained by any stockholder at our website

or by writing to:

Investor Relations Psychemedics Corporation 289 Great Road, #200 Acton, MA 01720



289 GREAT ROAD, ACTON, MA 01720

WWW.PSYCHEMEDICS.COM