As filed pursuant to Rule 424(b)(5) File No. 333-228581

PROSPECTUS SUPPLEMENT (to Prospectus dated December 11, 2018)



Up to \$25,000,000 Common Stock

We have entered into a Controlled Equity OfferingSM Sales Agreement, or sales agreement, with Cantor Fitzgerald & Co., or Cantor Fitzgerald, relating to shares of our common stock, par value \$0.001 per share, offered by this prospectus supplement. In accordance with the terms of the sales agreement, we may offer and sell shares of our common stock having an aggregate offering price of up to \$25,000,000 from time to time through or to Cantor Fitzgerald, acting as sales agent.

Our common stock is listed on The Nasdaq Global Market under the symbol "EYPT." On August 4, 2020, the last reported sale price of our common stock on the Nasdaq Global Market was \$0.7299 per share.

Sales of our common stock, if any, under this prospectus may be made in sales deemed to be "at the market offering" as defined in Rule 415(a)(4) promulgated under the Securities Act of 1933, as amended, or the Securities Act. Subject to the terms of the sales agreement, Cantor Fitzgerald is not required to sell any specific number or dollar amounts of securities but will act as sales agent and use commercially reasonable efforts to sell on our behalf all of the shares of common stock requested to be sold by us, consistent with its normal trading and sales practices, on mutually agreed terms between Cantor Fitzgerald and us. There is no arrangement for funds to be received in any escrow, trust or similar arrangement.

Cantor Fitzgerald will be entitled to compensation at a fixed commission rate of 3.0% of the aggregate gross sales price per share sold. In connection with the sale of our common stock on our behalf, Cantor Fitzgerald will be deemed to be an "underwriter" within the meaning of the Securities Act and the compensation of Cantor Fitzgerald will be deemed to be underwriting commissions or discounts. See "Plan of Distribution" beginning on page S-14 for additional information regarding the compensation to be paid to Cantor Fitzgerald.

Investing in our securities involves a high degree of risk. See "<u>Risk Factors</u>" beginning on page S-5 of this prospectus supplement and elsewhere in this prospectus supplement, the accompanying base prospectus and the other documents that are incorporated by reference in this prospectus supplement and the accompanying prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement or the accompanying prospectus is truthful or complete. Any representation to the contrary is a criminal offense.



Prospectus supplement, dated August 5, 2020.

E

TABLE OF CONTENTS

Prospectus Supplement

	G ''
ABOUT THIS PROSPECTUS SUPPLEMENT	S-ii
PROSPECTUS SUPPLEMENT SUMMARY	S-1
THE OFFERING	S-3
<u>RISK FACTORS</u>	S-5
NOTE REGARDING FORWARD-LOOKING STATEMENTS	S-8
<u>USE OF PROCEEDS</u>	S-11
DILUTION	S-12
PLAN OF DISTRIBUTION	S-14
LEGAL MATTERS	S-15
EXPERTS	S-15
WHERE YOU CAN FIND MORE INFORMATION	S-15
INCORPORATION OF CERTAIN INFORMATION BY REFERENCE	S-16

Prospectus

ABOUT THIS PROSPECTUS	ii
FORWARD-LOOKING STATEMENTS	1
MARKET, INDUSTRY AND OTHER DATA	3
THE COMPANY	4
<u>RISK FACTORS</u>	5
<u>USE OF PROCEEDS</u>	5
PLAN OF DISTRIBUTION	6
GENERAL DESCRIPTION OF OUR SECURITIES	9
DESCRIPTION OF OUR COMMON STOCK	9
DESCRIPTION OF OUR PREFERRED STOCK	13
DESCRIPTION OF OUR WARRANTS	14
DESCRIPTION OF OUR DEBT SECURITIES	15
DESCRIPTION OF OUR UNITS	20
WHERE YOU CAN FIND MORE INFORMATION	22
LEGAL MATTERS	22
EXPERTS	23

ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement and the accompanying prospectus are part of a "shelf" registration statement on Form S-3 (File No. 333-228581) that we initially filed with the Securities and Exchange Commission, or SEC, on November 28, 2018, and that was declared effective by the SEC on December 11, 2018. This document is in two parts. The first part is this prospectus supplement, which describes the terms of this offering of our common stock and adds to and updates the information contained in the accompanying prospectus. The second part, the accompanying prospectus, provides more general information, some of which may not apply to this offering. Generally, when we refer to this prospectus, we are referring to both parts of this document combined. To the extent there is a conflict between the information contained in this prospectus supplement and the information contained in the accompanying prospectus supplement and the information contained in the accompanying prospectus supplement and the information contained in the accompanying prospectus supplement.

This prospectus supplement and the accompanying prospectus relate to the offering of shares of our common stock. Before buying any of the shares of common stock offered hereby, we urge you to read carefully this prospectus supplement and the accompanying prospectus, together with the information incorporated herein by reference as described below under the heading "Incorporation of Certain Information by Reference." This prospectus supplement contains information about the common stock offered hereby and may add to, update or change information in the accompanying prospectus.

You should rely only on the information contained in, or incorporated by reference into, this prospectus supplement and the accompanying prospectus. We have not, and Cantor Fitzgerald has not, authorized anyone to provide you with different or additional information.

We are not making offers to sell or solicitations to buy our common stock in any jurisdiction in which an offer or solicitation is not authorized or in which the person making that offer or solicitation is not qualified to do so or to anyone to whom it is unlawful to make an offer or solicitation. You should assume that the information in this prospectus supplement and the accompanying prospectus is accurate only as of the date on the front of the respective document and that any information that we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus supplement or the accompanying prospectus or the time of any sale of our common stock.

This prospectus supplement and the accompanying prospectus contain summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated herein by reference as exhibits to the registration statement, and you may obtain copies of those documents as described below under the section entitled "Where You Can Find More Information."

We further note that the representations, warranties and covenants made by us in any agreement that is filed as an exhibit to any document that is incorporated by reference herein were made solely for the benefit of the parties to such agreement, including, in some cases, for the purpose of allocating risk among the parties to such agreements, and should not be deemed to be a representation, warranty or covenant to you. Moreover, such representations, warranties or covenants were accurate only as of the date when made. Accordingly, such representations, warranties and covenants should not be relied on as accurately representing the current state of our affairs.

This prospectus supplement and the accompanying prospectus contain and incorporate by reference market data and industry statistics and forecasts that are based on independent industry publications and other publicly-available information. Although we believe these sources are reliable, we do not guarantee the accuracy or completeness of this information and we have not independently verified this information. Although we are not aware of any misstatements regarding the market and industry data presented in this prospectus supplement, the accompanying prospectus or the documents incorporated herein by reference, these estimates involve risks and

S-ii

uncertainties and are subject to change based on various factors, including those discussed under the headings "Risk Factors" in this prospectus supplement and the accompanying prospectus, and under similar headings in the other documents that are incorporated herein by reference. Accordingly, investors should not place undue reliance on this information.

This prospectus and the information incorporated herein by reference include trademarks, service marks and trade names owned by us or other companies. All trademarks, service marks and trade names included or incorporated by reference herein are the property of their respective owners.

Unless the context otherwise requires, in this prospectus supplement the "Company," "we," "us," "our" and similar names refer to EyePoint Pharmaceuticals, Inc. and its subsidiaries.

S-iii

PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights selected information about us and this offering and does not contain all of the information that you should consider in making your investment decision. You should carefully read this entire prospectus supplement and the accompanying prospectus, including the risks and uncertainties discussed under the heading "Risk Factors" beginning on page S-5 of this prospectus supplement, and the information incorporated by reference in this prospectus supplement and the accompanying prospectus, including our financial statements, before making an investment decision. If you invest in our securities, you are assuming a high degree of risk.

Our Business

We are a pharmaceutical company committed to developing and commercializing innovative ophthalmic products for the treatment of serious eye diseases. We have two products that were approved by the United States, or U.S., Food and Drug Administration, or FDA, in 2018 and commercially launched in the U.S. during the first quarter of 2019. We also are developing a pipeline of product candidates utilizing our proprietary Durasert technology.

YUTIQ[®] (fluocinolone acetonide intravitreal implant) 0.18 mg for intravitreal injection, was approved by the FDA in October 2018 and we commercially launched YUTIQ in the U.S. in February 2019. YUTIQ is indicated for the treatment of chronic non-infectious uveitis affecting the posterior segment of the eye, which affects between 60,000 to 100,000 people each year in the U.S., causes approximately 30,000 new cases of blindness every year and is the third leading cause of blindness. YUTIQ is a non-erodible intravitreal implant containing 0.18 mg fluocinolone acetonide, or FA, designed to release FA at an initial rate of 0.25 mcg/day, and lasting for up to 36 months. Injected into the eye during a physician office visit, YUTIQ delivers a micro-dose of a corticosteroid to the back of the eye on a sustained nearly constant (zero order release) basis. YUTIQ utilizes our proprietary Durasert[®] sustained-release drug delivery technology that can deliver drugs for predetermined periods of time ranging from months to years.

DEXYCU® (dexamethasone intraocular suspension) 9%, for intraocular administration, was approved by the FDA in February 2018 for the treatment of post-operative ocular inflammation and commercially launched in the U.S. in March 2019 with a primary focus on its use immediately following cataract surgery. DEXYCU is administered as a single dose directly into the surgical site at the end of ocular surgery and is the first long-acting intraocular product approved by the FDA for the treatment of post-operative inflammation. DEXYCU utilizes our proprietary Verisome® drug-delivery technology, which allows for a single intraocular injection that releases dexamethasone, a corticosteroid, for up to 22 days. In 2018, there were approximately 3.8 million cataract surgeries performed in the U.S.

EYP-1901 is being developed as a potential single dose, 6-month therapy for the treatment of wet age-related macular degeneration, or wAMD, with future potential indications in diabetic retinopathy, or DR, and retinal vein occlusion, or RVO. EYP-1901 utilizes our bioerodible Durasert technology and vorolanib, an anti-VEGF tyrosine kinase inhibitor, or TKI. Vorolanib has previously been studied in human clinical trials as an oral therapy and is anticipated to be delivered as an intra-vitreal treatment in EYP-1901. We have completed initial animal pharmacokinetic and toxicology studies and initiated Good Laboratory Practice, or GLP, toxicology studies in March 2020 to support the anticipated filing of an Investigational New Drug, or IND, application with the FDA by the end of 2020. A Phase 1 clinical trial is expected to follow shortly afterwards upon acceptance of the IND by the FDA.

YUTIQ50 is being developed by us as a potential 6-month dosing option for the treatment of chronic non-infectious uveitis affecting the posterior segment of the eye. We have consulted with the FDA and identified

a clinical pathway for an sNDA filing that involves a clinical trial of a small study of patients, randomized 2:1. We are currently evaluating the timeline and investment requirements for the initiation of this trial.

DEXYCU®, YUTIQ[®] and Durasert[™] are our trademarks. Retisert[®] is Bausch & Lomb's trademark. ILUVIEN[®] is Alimera Sciences, Inc.'s trademark. Verisome[®] is Ramscor, Inc.'s trademark. Information with respect to ILUVIEN, including regulatory and marketing information, and Alimera's plans and intentions, reflects information publicly disclosed by Alimera.

Corporate Information

We were incorporated under the laws of the state of Delaware on March 19, 2008 under the name New pSivida, Inc.; our predecessor, pSivida Limited, was formed in December 2000 as an Australian company incorporated in Western Australia. We subsequently changed our name to pSivida Corp. in May 2008 and again to EyePoint Pharmaceuticals, Inc. in March 2018. Our principal executive office (and mailing address) is located at 480 Pleasant Street, Suite B300, Watertown, MA 02472, and our telephone number is (617) 926-5000. Our corporate website is www.eyepointpharma.com. We make available free of charge on our website our annual, quarterly and current reports, including amendments to such reports, as soon as reasonably practicable after we electronically file such material with, or furnish such material to, the SEC. Information contained on our website is not incorporated by reference into this prospectus supplement or the accompanying prospectus, and you should not consider information contained on our website as part of this prospectus supplement or the accompanying prospectus.

THE OFFERING				
Common stock offered by us pursuant to this prospectus supplement	Shares of our common stock having an aggregate offering price of up to \$25,000,000.			
Common stock to be outstanding after this offering	Up to 159,449,166 shares (as more fully described in the notes following this table), assuming sales of 34,251,267 shares of our common stock in this offering at an offering price of \$0.7299 per share, which was the last reported sale price of our common stock on the Nasdaq Global Market on August 4, 2020. The actual number of shares issued will vary depending on the sales price under this offering.			
Plan of Distribution	"At the market offering" that may be made from time to time through or to our sales agent, Cantor Fitzgerald. See "Plan of Distribution" on page S-14 of this prospectus supplement.			
Use of Proceeds	We intend to use the net proceeds from this offering to continue to fund the commercialization of DEXYCU and YUTIQ and for general corporate purposes, which may include working capital, capital expenditures, research and development expenditures related to the advancement of EYP-1901 for retinal diseases and our other product candidates, clinical trial expenditures, acquisitions of new technologies, products or businesses in ophthalmology, and investments. As of the date of this prospectus supplement, we cannot specify with certainty all of the particular uses of the net proceeds. As a result, our management will retain broad discretion in the allocation and use of the net proceeds. See "Use of Proceeds" on page S-11 of this prospectus supplement.			
Risk Factors	An investment in our common stock involves a high degree of risk. See the information contained in or incorporated by reference under "Risk Factors" on page S-5 of this prospectus supplement, page 29 of our Annual Report on Form 10-K for the year ended December 31, 2019, page 39 of our Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2020 and under similar headings in the other documents that are incorporated by reference herein, as well as the other information included in or incorporated by reference in this prospectus supplement and the accompanying prospectus.			
The Nasdaq Global Market symbol	EYPT			

Outstanding Shares

The number of shares of our common stock to be outstanding after this offering is based on 125,197,899 shares of our common stock outstanding as of June 30, 2020. Unless specifically stated otherwise, the information in this prospectus supplement is as of June 30, 2020 and excludes:

• 13,672,350 shares of our common stock issuable upon the exercise of stock options outstanding as of June 30, 2020 at a weightedaverage exercise price of \$2.18 per share;

- 1,463,521 shares of common stock underlying our restricted stock units outstanding as of June 30, 2020;
- 45,001 shares of common stock underlying our deferred stock units outstanding as of June 30, 2020 (less 19,167 shares of our common stock issued subsequent to June 30, 2020 through August 4, 2020;
- 5,788,772 shares of our common stock available for future issuance under our 2016 Long-Term Incentive Plan as of June 30, 2020 ((i) less 291,500 shares of our common stock issuable upon the exercise of stock options or vesting of restricted stock units granted subsequent to June 30, 2020 through August 4, 2020 and (ii) plus 629,916 shares of our common stock that were forfeited subject to the cancellation and/or expiration of stock options or restricted stock units subsequent to June 30, 2020 through August 4, 2020);
- 486,812 shares of our common stock issuable on exercise of warrants outstanding as of June 30, 2020, which had a weighted average exercise price of \$1.23 per share at that date; and
- 938,340 shares of our common stock reserved for future issuance under our 2019 Employee Stock Purchase Plan, or the 2019 ESPP, as of June 30, 2020 (less 175,317 shares of our common stock issued subsequent to June 30, 2020 through August 4, 2020).

RISK FACTORS

Investing in our common stock involves a high degree of risk. Before investing in our common stock, you should carefully consider the risks described below, together with all of the other information contained in this prospectus supplement and the accompanying prospectus and incorporated by reference herein and therein, including from our most recent Annual Report on Form 10-K and any subsequent Quarterly Reports on Form 10-Q or Current Reports on Form 8-K, as well as any amendments or update to our risk factors thereto reflected in subsequent filings with the SEC. Some of these factors relate principally to our business and the industry in which we operate. Other factors relate principally to your investment in our securities. The risks and uncertainties described therein and below are not the only risks facing us. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also materially and adversely affect our business and operations.

If any of the matters included in the following risks were to occur, our business, financial condition, results of operations, cash flows or prospects could be materially and adversely affected. In such case, you may lose all or part of your investment.

Risks Related to this Offering

A substantial number of shares may be sold in the market following this offering, which may depress the market price for our common stock.

Sales of a substantial number of shares of our common stock in the public market following this offering could cause the market price of our common stock to decline. Although there can be no assurance that any of the \$25,000,000 worth of shares being offered under this prospectus supplement will be sold or the price at which any such shares might be sold, assuming that an aggregate of 34,251,267 shares of our common stock are sold during the term of the sales agreement with Cantor Fitzgerald, in each case, for example, at a price of \$0.7299 per share, the last reported sale price of our common stock on the Nasdaq Global Market on August 4, 2020, upon completion of this offering, based on our shares outstanding as of June 30, 2020, we will have outstanding an aggregate of 159,449,166 shares of common stock, assuming no exercise or settlement, as the case may be, of our outstanding stock options, restricted stock units, deferred stock units or warrants. A substantial majority of the outstanding shares of our common stock are, and all of the shares sold in this offering upon issuance will be, freely tradable without restriction or further registration under the Securities Act, unless these shares are owned or purchased by "affiliates" as that term is defined in Rule 144 under the Securities Act.

In addition, as of June 30, 2020, there were outstanding (i) options to purchase an aggregate of 13,672,350 shares of our common stock at a weighted average exercise price of \$2.18 per share, of which options to purchase 5,689,656 shares of our common stock were then exercisable, (ii) restricted stock units to acquire up to an aggregate of 1,463,521 shares of our common stock, (iii) deferred stock units to acquire up to an aggregate of 45,001shares of our common stock and (iv) warrants to purchase 486,812 shares of our common stock at a weighted average exercise price of \$1.23 per share. The shares of our common stock issuable upon exercise or settlement of these options, restricted stock units, deferred stock units and warrants may be immediately eligible for resale in the open market. Such sales, along with any other market transactions, could adversely affect the market price of our common stock. Additional dilution may result from the issuance of shares of our common stock in connection with collaborations or manufacturing arrangements or in connection with other financing efforts.

Moreover, if we issue options, performance stock units, restricted stock units, deferred stock units, warrants or other securities to purchase or acquire our common stock in the future and those options, performance stock units, restricted stock units, deferred stock units, warrants or other securities are exercised, converted or settled you may experience further dilution. Holders of shares of our common stock have no preemptive rights that entitle them to purchase their pro rata share of any offering of shares of any class or series.

You may experience immediate and substantial dilution.

The offering price per share in this offering may exceed the net tangible book value per share of our common stock outstanding prior to this offering. Assuming that an aggregate of 34,251,267 shares of our common stock are sold at a price of \$0.7299 per share, the last reported sale price of our common stock on the Nasdaq Global Market on August 4, 2020, for aggregate gross proceeds of \$25,000,000, and after deducting commissions and estimated offering expenses payable by us, you will experience immediate dilution of \$0.72 per share, representing the difference between our as adjusted net tangible book value per share as of June 30, 2020 after giving effect to this offering and the assumed offering price. The exercise of outstanding stock options and warrants and the settlement of outstanding restricted stock units and deferred stock units will result in further dilution of your investment. See the section entitled "Dilution" below for a more detailed illustration of the dilution you would incur if you participate in this offering.

You may experience future dilution as a result of future equity offerings or other equity issuances.

In order to raise additional capital, we may in the future offer and issue additional shares of our common stock or other securities convertible into, exercisable or exchangeable for, or settled in, our common stock. We cannot assure you that we will be able to sell shares or other securities in any other offering at a price per share that is equal to or greater than the price per share paid by investors in this offering, and investors purchasing shares or other securities in the future could have rights superior to existing stockholders. The price per share at which we sell additional shares of our common stock or other securities convertible into, exercisable or exchangeable for, or settled in, our common stock in future transactions may be higher or lower than the price per share in this offering. As of June 30, 2020, we had reserved 10,977,350 shares of our common stock for issuance upon the exercise of outstanding stock options, 1,463,521 shares of our common stock for issuance upon the vesting of our outstanding deferred stock units, 5,788,772 shares of our common stock for future issuance under the 2016 Long-Term Incentive Plan, 486,812 shares of our common stock for issuance upon the grant of any shares pursuant to such plan, upon vesting of any stock awards under any such plan, or upon exercise of any such outstanding options or warrants.

We have broad discretion in the use of the net proceeds of this offering and, despite our efforts, we may use the net proceeds in a manner that does not increase the value of your investment.

We intend to use the net proceeds from this offering to continue to fund the commercialization of DEXYCU and YUTIQ and for general corporate purposes, which may include working capital, capital expenditures, research and development expenditures related to the advancement of EYP-1901 for retinal diseases and our other product candidates, clinical trial expenditures, acquisitions of new technologies, products or businesses in ophthalmology, and investments. However, we have not determined the specific allocation of the net proceeds among these potential uses. Our management will have broad discretion over the use and investment of the net proceeds of this offering, and, accordingly, investors in this offering will need to rely upon the judgment of our management with respect to the use of proceeds, with only limited information concerning our specific intentions. These proceeds could be applied in ways that do not improve our operating results or increase the value of your investment. Please see the section entitled "Use of Proceeds" on page S-11 of this prospectus supplement for further information.

We do not anticipate paying any cash dividends on our capital stock in the foreseeable future; accordingly, capital appreciation, if any, will be your sole source of gain and you may never receive a return on your investment.

We have never declared or paid cash dividends on our capital stock, and you should not rely on an investment in our common stock to provide dividend income. We currently intend to retain all of our future

earnings, if any, to finance the growth and development of our business and do not anticipate declaring or paying any cash dividends for the foreseeable future. In addition, our credit agreement prohibits us, and the terms of any future debt agreements may also preclude us, from paying dividends. As a result, capital appreciation, if any, of our common stock will be your sole source of gain for the foreseeable future.

It is not possible to predict the aggregate proceeds resulting from sales made under the sales agreement.

Subject to certain limitations in the sales agreement and compliance with applicable law, we have the discretion to deliver a placement notice to Cantor Fitzgerald at any time throughout the term of the sales agreement. The number of shares that are sold through Cantor Fitzgerald after delivering a placement notice will fluctuate based on a number of factors, including the market price of our common stock during the sales period, any limits we may set with Cantor Fitzgerald in any applicable placement notice and the demand for our common stock. Because this offering can be terminated at any time and the price per share of each share sold pursuant to the sales agreement will fluctuate over time, it is not currently possible to predict the aggregate proceeds to be raised in connection with sales under the sales agreement.

Sales of common stock offered hereby will be in "at the market offerings," and investors who buy shares at different times will likely pay different prices.

Investors who purchase shares in this offering at different times will likely pay different prices, and accordingly may experience different levels of dilution and different outcomes in their investment results. We will have discretion, subject to market demand, to vary the timing, prices and number of shares sold in this offering. In addition, subject to the final determination by our board of directors or any restrictions we may place in any applicable placement notice delivered to Cantor Fitzgerald, there is no minimum or maximum sales price for shares to be sold in this offering. Investors may experience a decline in the value of the shares they purchase in this offering as a result of sales made at prices lower than the prices they paid.

NOTE REGARDING FORWARD-LOOKING STATEMENTS

Various statements made in this prospectus supplement are forward-looking and involve risks and uncertainties. All statements that address activities, events or developments that we intend, expect or believe may occur in the future are forward-looking statements within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act. Such statements give our current expectations or forecasts of future events and are not statements of historical or current facts. These statements include, among others, statements about:

- the extent to which our business, the medical community and the global economy will continue to be materially and adversely impacted by the effects of the COVID-19 coronavirus pandemic or by other pandemics, epidemics or outbreaks;
- the potential advantages of DEXYCU[®] and YUTIQ[®] for the treatment of eye diseases;
- our ability to manufacture DEXYCU and YUTIQ, or any future products or product candidates in sufficient quantities and quality;
- our continued commercialization of DEXYCU and YUTIQ;
- our ability to further develop sales and marketing capabilities, whether alone or with potential future collaborators;
- our expectations regarding the timing and clinical development of our product candidates, including EYP-1901 and YUTIQ50;
- our expectations to avoid the toxicity seen in the prior clinical studies of orally delivered vorolanib, a TKI by delivering vorolanib locally using our bioerodible Durasert technology as EYP-1901 at a significantly lower total dose;
- the potential for EYP-1901, as a single dose six-month treatment for serious eye diseases including wAMD, with potential in DR and RVO;
- our expectations regarding the timing and outcome of GLP toxicology studies for EYP-1901 to support the filing of an IND application with the FDA;
- our expectations regarding the timing and results of the Securities and Exchange Commission, or SEC, investigation;
- the potential for our Paycheck Protection Program Loan to be forgiven in full;
- our ability to regain compliance with the listing requirements of the Nasdaq Global Market;
- our ability to further develop sales and marketing capabilities, whether alone or with potential future collaborators;
- our belief that our cash and cash equivalents of \$22.8 million at June 30, 2020 and expected cash inflows under our product sales and royalty agreements, coupled with cash conservation activities will enable us to fund our current and planned operations into 2021;
- our ability to obtain additional capital in sufficient amounts and on terms acceptable to us, and the consequences of failing to do so;
- future expenses and capital expenditures;
- our expectations regarding the timing and design of our clinical development plans;
- our ability to establish or maintain collaborations and obtain milestone, royalty and/or other payments from any such collaborators;
- the ability of Alimera Sciences, Inc., or Alimera, to commercialize ILUVIEN[®] for the treatment of non-infectious uveitis affecting the posterior segment of the eye in Europe, the Middle East and Africa, or EMEA;

- the implication of results from pre-clinical and clinical trials and our other research activities;
- our intentions regarding our research into other uses and applications of our Durasert[™] and Verisome[®] technologies;
- our expectations regarding our ability to obtain and adequately maintain sufficient intellectual property protection for DEXYCU, YUTIQ, EYP-1901 and YUTIQ50 and future product candidates, and to avoid claims of infringement of third-party intellectual property rights;
- the scope and duration of intellectual property protection;
- our expectation that we will continue to incur significant expenses and that our operating losses and our net cash outflows to fund operations will continue for the foreseeable future;
- the expected costs associated with termination benefits and the financial impact of the our restructuring plan and reduction in force;
- our plans to allocate our remaining DEXYCU commercial resources to high-volume ASCs in key regions, subject to the availability of such ASCs to perform elective cataract surgery upon the lifting of restrictions associated with the COVID-19 pandemic; and
- the effect of legal and regulatory developments.

Forward-looking statements also include statements other than statements of current or historical fact, including, without limitation, all statements related to any expectations of revenues, expenses, cash flows, earnings or losses from operations, cash required to maintain current and planned operations, capital or other financial items; any statements of the plans, strategies and objectives of management for future operations; any plans or expectations with respect to product research, development and commercialization, including regulatory approvals; any other statements of expectations, plans, intentions or beliefs; and any statements of assumptions underlying any of the foregoing. We often, although not always, identify forward-looking statements by using words or phrases such as "likely", "expect", "intend", "anticipate", "believe", "estimate", "plan", "project", "forecast" and "outlook".

The following are some of the factors that could cause actual results to differ materially from the anticipated results or other expectations expressed, anticipated or implied in our forward-looking statements: uncertainties with respect to: the continued impact of the COVID-19 pandemic on our business, the medical community and the global economy; the impact of the workforce reduction on our operations; the sufficiency of the Paycheck Protection Program Loan to support our operations for a limited period of time; the duration, scope and outcome of the SEC investigation and its impact on our financial condition, results of operations and cash flows; our ability to regain compliance with the listing requirements of the Nasdaq Global Market; the effectiveness and timeliness of our preclinical studies and clinical trials, and the usefulness of the data; the timeliness of regulatory approval; our ability to achieve profitable operations and access to needed capital; fluctuations in our operating results; our ability to successfully produce sufficient commercial quantities of YUTIQ and DEXYCU and to successfully commercialize YUTIQ and DEXYCU in the U.S.; our ability to sustain and enhance an effective commercial infrastructure and enter into and maintain commercial agreements for the commercialization of YUTIQ and DEXYCU; the regulatory approval and successful release of our YUTIQ line extension shorter-duration treatment for non-infectious uveitis affecting the posterior segment of the eve; potential off-label sales of ILUVIEN for non-infectious uveitis affecting the posterior segment of the eve; consequences of fluocinolone acetonide side effects for YUTIQ; consequences of dexamethasone side effects for DEXYCU; successful commercialization of, and receipt of revenues from, ILUVIEN for diabetic macular edema, or DME; Alimera's ability to obtain additional marketing approvals and the effect of pricing and reimbursement decisions on sales of ILUVIEN for DME; Alimera's ability to commercialize ILUVIEN for non-infectious uveitis affecting the posterior segment of the eye in its licensed territory; our ability to market and sell products; the success of current and future license agreements; termination or breach of current license agreements; our dependence on contract research organizations, contract sales organizations, vendors and investigators; effects of competition

and other developments affecting sales of products; market acceptance of products; effects of guidelines, recommendations and studies; protection of intellectual property and avoiding intellectual property infringement; retention of key personnel; product liability; industry consolidation; compliance with environmental laws; manufacturing risks; risks and costs of international business operations; volatility of stock price; possible dilution; absence of dividends; and other factors described in our filings with the SEC. We cannot guarantee that the results and other expectations expressed, anticipated or implied in any forward-looking statement will be realized. The risks set forth under Item 1A of our Form 10-K for the year ended December 31, 2019, as revised or supplemented by our Quarterly Reports on Form 10-Q and other documents we file with the SEC, describe major risks to our business, and you should read and interpret any forward-looking statements together with these risks. You should read and interpret any forward-looking statements together with these risks. You should read and interpret any forward-looking statements in light of these risks. Should known or unknown risks materialize, or should underlying assumptions prove inaccurate, actual results could differ materially from past results and those anticipated, estimated or projected in the forward-looking statements. You should bear this in mind as you consider any forward-looking statements. Our forward-looking statements speak only as of the dates on which they are made. We do not undertake any obligation to publicly update or revise our forward-looking statements even if experience or future changes makes it clear that any projected results expressed or implied in such statements will not be realized.

Before deciding to purchase our securities, you should carefully consider the risk factors discussed and incorporated by reference in this prospectus supplement and the accompanying prospectus and in the registration statement of which this prospectus supplement and the accompanying prospectus form a part.

USE OF PROCEEDS

The amount of proceeds from this offering will depend upon the number of shares of our common stock sold and the market price at which they are sold. There can be no assurance that we will be able to sell any shares under or fully utilize the sales agreement with Cantor Fitzgerald as a source of financing.

We intend to use the net proceeds from this offering to continue to fund the commercialization of DEXYCU and YUTIQ and for general corporate purposes, which may include working capital, capital expenditures, research and development expenditures related to the advancement of EYP-1901 for retinal diseases and our other product candidates, clinical trial expenditures, acquisitions of new technologies, products or businesses in ophthalmology, and investments.

The amounts and timing of our use of the net proceeds from this offering will depend on a number of factors, such as the timing and progress of our commercialization efforts, research and development efforts, the timing and progress of any partnering efforts, technological advances and the competitive environment for our product candidates. As of the date of this prospectus supplement, we cannot specify with certainty all of the particular uses for the net proceeds to us from the sale of the shares of common stock offered by us hereunder. Accordingly, our management will have broad discretion in the timing and application of these proceeds. Pending application of the net proceeds as described above, we intend to temporarily invest the proceeds in short-term, interest-bearing instruments.

DILUTION

Purchasers of common stock in this offering will experience immediate dilution to the extent of the difference between the public offering price per share of common stock, and the net tangible book value per share of common stock immediately after this offering.

Our net tangible book deficit as of June 30, 2020 was approximately \$(22.4) million, or \$(0.18) per share of common stock. Net tangible book value per share is determined by dividing total tangible assets less total liabilities, excluding items such as intangibles, by the aggregate number of shares of common stock outstanding as of June 30, 2020. Dilution per share to new investors represents the difference between the amount per share paid by purchasers for our common stock in this offering and the net tangible book value per share of our common stock immediately following the completion of this offering.

After giving effect to the sale of shares of common stock offered by the prospectus supplement at an assumed public offering price of \$0.7299 per share of common stock (the last reported sale price of our common stock on the Nasdaq Global Market on August 4, 2020), and after deducting the commissions and estimated aggregate offering expenses payable by us, our net tangible book value as of June 30, 2020 would have been approximately \$1.7 million, or \$0.01 per share of common stock. This represents an immediate increase in net tangible book value of \$0.19 per share to our existing stockholders and an immediate dilution of \$0.72 per share of common stock issued to the new investors purchasing securities in this offering.

The following table illustrates this per share dilution:

Assumed public offering price per share of common stock		\$0.7299
Net tangible book deficit per share as of June 30, 2020	\$(0.18)	
Increase per share attributable to new investors	\$ 0.19	
As adjusted net tangible book value per share after this offering		\$ 0.01
Dilution per share to new investors		\$ 0.72

The table above assumes for illustrative purposes that an aggregate of 34,251,267 shares of our common stock are sold at a price of \$0.7299 per share, the last reported sale price of our common stock on the Nasdaq Global Market on August 4, 2020, for aggregate gross proceeds of approximately \$25.0 million. The shares sold in this offering, if any, will be sold from time to time at various prices. An increase of \$0.25 per share in the price at which the shares are sold from the assumed offering price of \$0.9799 per share shown in the table above, assuming all of our common stock in the aggregate amount of \$25.0 million is sold at that price, would result in an as adjusted net tangible book value per share after this offering of approximately \$0.01 per share and would increase the dilution in net tangible book value per share to new investors to \$0.97 per share, after deducting commissions and estimated aggregate offering expenses payable by us. A decrease of \$0.25 per share in the aggregate amount of \$25.0 million is sold at that price, assuming all of our common stock in the assumed offering price of \$0.4799 per share shown in the table above, assuming all of our common stock in the shares are sold from the assumed offering price of \$0.4799 per share shown in the table above, assuming all of our common stock in the aggregate amount of \$25.0 million is sold at that price, would result in an as adjusted net tangible book value per share in the price at which the shares are sold from the assumed offering price of \$0.4799 per share shown in the table above, assuming all of our common stock in the aggregate amount of \$25.0 million is sold at that price, would result in an as adjusted net tangible book value per share after this offering of approximately \$0.01 per share and would decrease the dilution in net tangible book value per share after this offering of approximately \$0.01 per share and would decrease the dilution in net tangible book value per share to new investors to \$0.47 per share, after deducting commiss

The information discussed above is illustrative only and may differ based on the actual offering price and the actual number of shares offered.

The above table is based on 125,197,899 shares of common stock outstanding as of June 30, 2020. Unless specifically stated otherwise, the information in this prospectus supplement is as of June 30, 2020 and excludes:

13,672,350 shares of our common stock issuable upon the exercise of stock options outstanding as of June 30, 2020 at a weighted-average exercise price of \$2.18 per share;

- 1,463,521 shares of common stock underlying our restricted stock units outstanding as of June 30, 2020;
- 45,001 shares of common stock underlying our deferred stock units outstanding as of June 30, 2020 (less 19,167 shares of our common stock issued subsequent to June 30, 2020 through August 4, 2020;
- 5,788,772 shares of our common stock available for future issuance under our 2016 Long-Term Incentive Plan as of June 30, 2020 ((i) less 291,500 shares of our common stock issuable upon the exercise of stock options or vesting of restricted stock units granted subsequent to June 30, 2020 through August 4, 2020 and (ii) plus 629,916 shares of our common stock that were forfeited subject to the cancellation and/or expiration of stock options or restricted stock units subsequent to June 30, 2020 through August 4, 2020;
- 486,812 shares of our common stock issuable on exercise of warrants outstanding as of June 30, 2020, which had a weighted average exercise price of \$1.23 per share at that date; and
- 938,340 shares of our common stock reserved for future issuance under the 2019 ESPP as of June 30, 2020 (less 175,317 shares of our common stock issued subsequent to June 30, 2020 through August 4, 2020).

To the extent that options or warrants are exercised, restricted stock units or deferred stock units vest and settle, new options are issued under our 2016 Long-Term Incentive Plan or as inducements material to an individual's acceptance of employment with us, or we otherwise issue additional shares of common stock in the future, there may be further dilution to investors participating in this offering. In addition, we may choose to raise additional capital because of market conditions or strategic considerations, even if we believe that we have sufficient funds for our current or future operating plans. If we raise additional capital through the sale of equity or convertible debt securities, the issuance of these securities could result in further dilution to our stockholders.

PLAN OF DISTRIBUTION

We have entered into a Controlled Equity OfferingSM Sales Agreement, or the Sales Agreement, with Cantor Fitzgerald & Co., or Cantor Fitzgerald, under which we may offer and sell shares of our common stock. Pursuant to this prospectus supplement, we may offer and sell shares of our common stock having an aggregate gross sales price of up to \$25,000,000 from time to time through Cantor Fitzgerald acting as agent. The Sales Agreement has been filed as an exhibit to a Current Report on Form 8-K.

Upon delivery of a placement notice and subject to the terms and conditions of the Sales Agreement, Cantor Fitzgerald may offer and sell shares of our common stock by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415(a)(4) promulgated under the Securities Act. We may instruct Cantor Fitzgerald not to sell common stock if the sales cannot be effected at or above the price designated by us from time to time. We or Cantor Fitzgerald may suspend the offering of common stock upon notice and subject to other conditions.

We will pay Cantor Fitzgerald commissions, in cash, for its services in acting as agent in the sale of our common stock. Cantor Fitzgerald is entitled to compensation at a commission rate of 3.0% of the gross sales price per share sold under the Sales Agreement. Because there is no minimum offering amount required as a condition to close this offering, the actual total public offering amount, commissions and proceeds to us, if any, are not determinable at this time. We have also agreed to reimburse Cantor Fitzgerald for certain specified expenses, including the reasonable and documented fees and disbursements of its legal counsel in an amount not to exceed \$50,000. We estimate that the total expenses for the offering under this prospectus supplement, excluding compensation and reimbursements payable to Cantor Fitzgerald under the terms of the Sales Agreement, will be approximately \$200,000.

Settlement for sales of shares of common stock will occur on the second business day following the date on which any sales are made, or on some other date that is agreed upon by us and Cantor Fitzgerald in connection with a particular transaction, in return for payment of the net proceeds to us. Sales of our common stock as contemplated in this prospectus supplement will be settled through the facilities of The Depository Trust Company or by such other means as we and Cantor Fitzgerald may agree upon. There is no arrangement for funds to be received in an escrow, trust or similar arrangement.

Cantor Fitzgerald will use its commercially reasonable efforts, consistent with its sales and trading practices, to solicit offers to purchase the shares of common stock under the terms and subject to the conditions set forth in the Sales Agreement. In connection with the sale of the shares of common stock on our behalf, Cantor Fitzgerald will be deemed to be an "underwriter" within the meaning of the Securities Act and the compensation of Cantor Fitzgerald will be deemed to be underwriting commissions or discounts. We have agreed to provide indemnification and contribution to Cantor Fitzgerald (and its partners, members, directors, officers, employees and agents) against certain civil liabilities, including liabilities under the Securities Act.

The offering of shares of our common stock pursuant to the Sales Agreement will terminate upon the termination or expiration of the Sales Agreement as permitted therein. We and Cantor Fitzgerald may each terminate the Sales Agreement at any time upon ten days' prior notice.

Cantor Fitzgerald and its affiliates may in the future provide various investment banking, commercial banking and other financial services for us, our subsidiaries and our affiliates, for which services they may in the future receive customary fees. To the extent required by Regulation M, Cantor Fitzgerald will not engage in any market making activities involving our common stock while the offering is ongoing under this prospectus supplement.

This prospectus supplement and the accompanying prospectus in electronic format may be made available on a website maintained by Cantor Fitzgerald and Cantor Fitzgerald may distribute this prospectus supplement and the accompanying prospectus electronically.

LEGAL MATTERS

The validity of the securities we are offering will be passed upon by Hogan Lovells US LLP. Cantor Fitzgerald & Co. is being represented in connection with this offering by Cooley LLP, New York, New York.

EXPERTS

The consolidated financial statements incorporated in this prospectus supplement by reference from our Annual Report on Form 10-K for the year ended December 31, 2019 and the effectiveness of EyePoint Pharmaceuticals, Inc. and subsidiaries' internal control over financial reporting have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their reports, which are incorporated herein by reference (which reports (i) express an unqualified opinion on the financial statements and include an explanatory paragraphs referring to the substantial doubt about our ability to continue as a going concern and the adoption of a new accounting standard and (ii) express an unqualified opinion on the effectiveness of internal control over financial reporting). Such financial statements have been so incorporated in reliance upon the reports of such firm given upon their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-3 under the Securities Act, of which this prospectus supplement forms a part. The rules and regulations of the SEC allow us to omit from this prospectus supplement certain information included in the registration statement. For further information about us and the securities we are offering under this prospectus, you should refer to the registration statement and the exhibits and schedules filed with the registration statement. With respect to the statements contained in this prospectus supplement regarding the contents of any agreement or any other document, in each instance, the statement is qualified in all respects by the complete text of the agreement or document, a copy of which has been filed as an exhibit to the registration statement.

Because we are subject to the information and reporting requirements of the Exchange Act, we file annual, quarterly and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at http://www.sec.gov.

We make available free of charge on our website our annual, quarterly and current reports, including amendments to such reports, as soon as reasonably practicable after we electronically file such material with, or furnish such material to, the SEC. Please note, however, that we have not incorporated any other information by reference from our website, other than the documents listed under the heading "Incorporation of Certain Information by Reference" on page S-16 of this prospectus supplement. In addition, you may request copies of these filings at no cost by writing or telephoning us at the following address or telephone number:

EyePoint Pharmaceuticals, Inc. 480 Pleasant Street Watertown, MA 02472 Telephone: (617) 926-5000

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC allows us to "incorporate by reference" information into this prospectus supplement. This means that we can disclose important information to you by referring you to other documents we have filed separately with the SEC, without actually including the specific information in this prospectus supplement. The information incorporated by reference is considered to be part of this prospectus supplement, and information that we file later with the SEC (and that is deemed to be "filed" with the SEC) will automatically update, and may supersede, information in this prospectus supplement.

- Our Annual Report on Form 10-K for the fiscal year ended December 31, 2019, filed with the SEC on March 16, 2020;
- Our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2020, filed with the SEC on <u>May 8, 2020</u>, and Quarterly Report on Form 10-Q for the fiscal quarter ended June 30, 2020, filed with the SEC on <u>August 5, 2020</u>, respectively;
- Our Current Reports on Form 8-K, filed with the SEC on January 14, 2020, January 16, 2020, February 4, 2020, February 20, 2020, February 24, 2020, April 6, 2020, April 28, 2020, June 17, 2020, June 23, 2020, July 13, 2020 and August 5, 2020;
- Our Definitive Proxy Statement on Schedule 14A, filed with the SEC on <u>April 28, 2020</u> (other than the portions thereof that are furnished and not filed); and
- The description of our common stock contained in our current report on Form 8-K filed under Rule 12g-3 of the Exchange Act on June 19, 2008, including any amendments or reports filed for the purpose of updating such description.

All reports and other documents subsequently filed by us pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act after the date of this prospectus supplement and prior to the termination or completion of the offering of securities under this prospectus supplement shall be deemed to be incorporated by reference in this prospectus supplement and to be a part hereof from the date of filing such reports and other documents.

To obtain copies of these filings, see "Where You Can Find More Information" on page S-15 of this prospectus supplement.

S-16

PROSPECTUS



\$75,000,000

Common Stock Preferred Stock Warrants Debt Securities Units

We may offer to the public from time to time in one or more series or issuances:

- shares of our common stock;
- shares of our preferred stock;
- warrants to purchase shares of our common stock, preferred stock and/or debt securities;
- debt securities consisting of debentures, notes or other evidences of indebtedness;
- units consisting of a combination of the foregoing securities; or
- any combination of these securities.

The aggregate initial offering price of all securities sold by us pursuant to this prospectus will not exceed \$75,000,000.

This prospectus provides a general description of the securities that we may offer. Each time that we offer securities under this prospectus, we will provide the specific terms of the securities offered, including the public offering price, in a supplement to this prospectus. Any prospectus supplement

may add to, update or change information contained in this prospectus.

The securities may be sold by us to or through underwriters or dealers, directly to purchasers or through agents designated from time to time. For additional information on the methods of sale, you should refer to the section entitled "Plan of Distribution" in this prospectus and the comparable section of any applicable prospectus supplement. If any underwriters are involved in the sale of the securities with respect to which this prospectus is being delivered, the names of such underwriters and any applicable discounts or commissions and over-allotment options will be set forth in the applicable prospectus supplement.

Our common stock trades on the Nasdaq Global Market under the ticker symbol "EYPT." On November 27, 2018, the last reported sale price per share of our common stock was \$2.06. We have not yet determined whether the other securities that may be offered by this prospectus will be listed on any exchange, interdealer quotation system or over-the-counter market. If we decide to seek the listing of any such securities upon issuance, the prospectus supplement relating to those securities will disclose the exchange, quotation system or market on which those securities will be listed.

INVESTING IN OUR SECURITIES INVOLVES A HIGH DEGREE OF RISK. RISKS ASSOCIATED WITH AN INVESTMENT IN OUR SECURITIES WILL BE DESCRIBED IN THE APPLICABLE PROSPECTUS SUPPLEMENT AND CERTAIN OF OUR FILINGS WITH THE SECURITIES AND EXCHANGE COMMISSION INCORPORATED BY REFERENCE INTO THIS PROSPECTUS, AS DESCRIBED UNDER "<u>RISK FACTORS</u>" ON PAGE 5.

You should read this prospectus and any applicable prospectus supplement together with additional information described under the heading "Where You Can Find More Information" before you make your investment decision.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is December 11, 2018.

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TABLE OF CONTENTS

	Page
ABOUT THIS PROSPECTUS	ii
FORWARD-LOOKING STATEMENTS	1
MARKET, INDUSTRY AND OTHER DATA	3
THE COMPANY	4
RISK FACTORS	5
USE OF PROCEEDS	5
PLAN OF DISTRIBUTION	6
GENERAL DESCRIPTION OF OUR SECURITIES	9
DESCRIPTION OF OUR COMMON STOCK	9
DESCRIPTION OF OUR PREFERRED STOCK	13
DESCRIPTION OF OUR WARRANTS	14
DESCRIPTION OF OUR DEBT SECURITIES	15
DESCRIPTION OF OUR UNITS	20
WHERE YOU CAN FIND MORE INFORMATION	22
LEGAL MATTERS	22
EXPERTS	23
i	

ABOUT THIS PROSPECTUS

This prospectus is a part of a registration statement that we filed with the Securities and Exchange Commission, or the SEC, using a "shelf" registration process. Under this shelf registration process, we may offer to sell any of the securities, or any combination of the securities, described in this prospectus, in each case in one or more offerings, up to a total dollar amount of \$75,000,000.

This prospectus provides you only with a general description of the securities that we may offer. Each time securities are sold under the shelf registration statement, we will provide a prospectus supplement that will contain specific information about the terms of those securities and the terms of that offering. The prospectus supplement may also add, update or change information contained in this prospectus. If there is any inconsistency between the information in this prospectus and any prospectus supplement, you should rely on the information in the prospectus supplement. You should read both this prospectus and any prospectus supplement, including all documents incorporated by reference herein and therein, together with the additional information described under "Where You Can Find More Information" below.

The information contained in this prospectus is not complete and may be changed. You should rely only on the information provided in or incorporated by reference in this prospectus or in any prospectus supplement, or documents to which we otherwise refer you. We have not authorized anyone else to provide you with different information.

We have not authorized any dealer, agent or other person to give any information or to make any representation other than those contained or incorporated by reference in this prospectus and any accompanying prospectus supplement. You must not rely upon any information or representation not contained or incorporated by reference in this prospectus or an accompanying prospectus supplement. This prospectus and the accompanying prospectus supplement, if any, do not constitute an offer to sell or the solicitation of an offer to buy any securities other than the registered securities to which they relate, nor do this prospectus and the accompanying prospectus supplement, if any, constitute an offer to sell or the solicitation of an offer or solicitation in such jurisdiction. You should not assume that the information contained in this prospectus and the accompanying prospectus supplement, if any, is accurate on any date subsequent to the date set forth on the front of such document or that any information we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus and any accompanying prospectus supplement is delivered or securities are sold on a later date.

References in this prospectus to the terms "the Company," "EyePoint," "we," "our" and "us" or other similar terms mean EyePoint Pharmaceuticals, Inc. and our wholly owned subsidiaries, unless we state otherwise or the context indicates otherwise.

ii

FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference herein contain, and any prospectus supplement and the documents incorporated therein, may contain forward-looking statements that involve substantial risks and uncertainties All statements, other than statements of historical facts, included in this prospectus, any prospectus supplement or the documents incorporated herein and therein by reference, including statements regarding our future financial condition, results of operations, business strategy and plans and objectives of management for future operations, industry trends and other future events, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "believe," "will," "may," "estimate," "continue," "anticipate," "intend," "should," "plan," "expect," "predict," "project," "could," "potentially," "continue," "ongoing," "scheduled" or the negative of these terms or other similar expressions, although not all forward-looking statements contain these identifying terms. The forward-looking statements in this prospectus and the documents incorporated herein by reference include, among other things, statements about:

- the planned U.S. launch of YUTIQ[™] in the first quarter of calendar year 2019 and DEXYCU[™] in the first half of calendar year 2019;
- the potential advantages of DEXYCU, YUTIQ and our other product candidates;
- our ability to manufacture DEXYCU, YUTIQ, or any future products or product candidates in sufficient quantities and quality;
- our ability to develop sales and marketing capabilities, whether alone or with potential future collaborators;
- the sufficiency of our cash and cash equivalents to fund our operations into the second quarter of calendar year 2019;
- our ability to obtain additional capital in sufficient amounts and on terms acceptable to us, and the consequences of failing to do so;
- future expenses and capital expenditures;
- our expectations regarding the timing and design of our clinical development plans;
- our ability to establish or maintain collaborations and obtain milestone, royalty and/or other payments from any such collaborators;
- the ability of Alimera Sciences, Inc., or Alimera, to obtain regulatory approval of and commercialize ILUVIEN® for the treatment of non-infectious posterior uveitis, or NIPU, in Europe, the Middle East and Africa;
- the implication of results from pre-clinical and clinical trials and our other research activities;
- our intentions regarding our research into other uses and applications of our Durasert[™] and Verisome[®] technology platforms;
- our expectations regarding our ability to obtain and adequately maintain sufficient intellectual property protection for DEXYCU, YUTIQ and our other product candidates, and to avoid claims of infringement of third party intellectual property rights;
- our expectation that we will continue to incur significant expenses and that our operating losses and our net cash outflows to fund operations will continue for the foreseeable future;
- the scope and duration of intellectual property protection; and
- the effect of legal and regulatory developments.

We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ

materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. The following are some of the factors that could cause actual results to differ materially from the anticipated results or other expectations expressed, anticipated or implied in our forward-looking statements: uncertainties with respect to: our ability to achieve profitable operations and access to needed capital; fluctuations in our operating results; our ability to successfully produce commercial supply of YUTIQ and DEXYCU and commercialize YUTIQ and DEXYCU in the U.S.; our ability to successfully build a commercial infrastructure and enter into and maintain commercial agreements for the launch of YUTIQ and DEXYCU; the development of our next-generation YUTIQ short-acting treatment for uveitis; potential off-label sales of ILUVIEN for NIPU; consequences of fluocinolone acetonide side effects; successful commercialization of, and receipt of revenues from, ILUVIEN for diabetic macular edema, or DME, which depends on Alimera's ability to continue as a going concern; Alimera's ability to obtain additional marketing approvals and the effect of pricing and reimbursement decisions on sales of ILUVIEN for DME; Alimera's ability to obtain marketing approval for ILUVIEN in its licensed territories for NIPU; potential declines in Retisert[®] royalties; our ability to market and sell products; the success of current and future license agreements, including our agreement with Alimera; termination or breach of current license agreements, including our agreement with Alimera; our dependence on contract research organizations, contract sales organizations, vendors and investigators; effects of competition and other developments affecting sales of products; market acceptance of products; effects of guidelines, recommendations and studies; protection of intellectual property and avoiding intellectual property infringement; retention of key personnel; product liability; industry consolidation; compliance with environmental laws; manufacturing risks; risks and costs of international business operations; effects of the potential exit of the United Kingdom from the European Union; legislative or regulatory changes; volatility of stock price; possible dilution; absence of dividends; and other factors described in our filings with the SEC. We cannot guarantee that the results and other expectations expressed, anticipated or implied in any forward-looking statement will be realized. The risks set forth under Item 1A of our Form 10-K for the year ended June 30, 2018, as revised or supplemented by our Quarterly Reports on Form 10-Q and other documents we file with the SEC, describe major risks to our business, and you should read and interpret any forward-looking statements together with these risks. A variety of factors, including these risks, could cause our actual results and other expectations to differ materially from the anticipated results or other expectations expressed, anticipated or implied in our forward-looking statements. Should known or unknown risks materialize, or should underlying assumptions prove inaccurate, actual results could differ materially from past results and those anticipated, estimated or projected in the forward-looking statements. You should bear this in mind as you consider any forward-looking statements.

You should read this prospectus, any prospectus supplement and the documents that we incorporate by reference herein and therein completely and with the understanding that our actual future results may be materially different from what we expect. The forward-looking statements contained in this prospectus are made as of the date of this prospectus and we do not assume any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law.

MARKET, INDUSTRY AND OTHER DATA

This prospectus and any applicable prospectus supplement and the documents incorporated by reference herein and therein contain estimates, projections, market research and other information concerning, among other things, our industry, our business, markets for DEXYCU, YUTIQ and our product candidates and payor data. Unless otherwise expressly stated, we obtain this information from reports, research surveys, studies and similar data prepared by market research firms and other third parties, industry, medical and general publications, government data and similar sources as well as from our own internal estimates and research and from publications, research, surveys and studies conducted by third parties on our behalf. Information that is based on estimates, projections, market research or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances that are reflected in this information. As a result, you are cautioned not to give undue weight to such information.

THE COMPANY

Company Overview

We are a specialty biopharmaceutical company committed to developing and commercializing innovative ophthalmic products for the treatment of eye diseases. Following U.S. Food and Drug Administration, or FDA, approval of DEXYCU and YUTIQ, we are targeting the direct U.S. commercial launch of YUTIQ in the first quarter of calendar 2019 and DEXYCU in the first half of calendar 2019.

DEXYCU (dexamethasone intraocular suspension) 9%, approved by the FDA in February 2018 for the treatment of post-operative inflammation, is administered as a single dose at the end of ocular surgery and is the first long-acting intraocular product approved by the FDA for the treatment of post-operative inflammation. DEXYCU utilizes our proprietary Verisome[®] drug-delivery platform, which allows for a single injection that releases dexamethasone, a corticosteroid, over time. There are approximately four million cataract surgeries performed annually in the U.S. and we expect to launch DEXYCU in the U.S. in the first half of 2019 with a primary focus on its use following cataract surgery. We acquired DEXYCU in connection with the acquisition of Icon Bioscience, Inc., or Icon, in March 2018.

YUTIQ, a non-erodible fluocinolone acetonide insert for the treatment of chronic non-infectious uveitis affecting the posterior segment of the eye (chronic NIPU), was approved by the FDA on October 12, 2018. Injected into the eye in an office visit, YUTIQ is a micro-insert that delivers a micro-dose of a corticosteroid to the back of the eye on a sustained basis (zero order release) for approximately three years. YUTIQ is based on our proprietary Durasert[™] sustained-release drug delivery technology platform, which can deliver drugs for predetermined periods of time ranging from months to years. NIPU is the third leading cause of blindness in the U.S. and is estimated to affect between 55,000 to 120,000 people. We expect to launch YUTIQ in the U.S. in the first quarter of calendar 2019.

ILUVIEN® for diabetic macular edema, or DME, our lead licensed product, was also developed from our Durasert technology platform, and is sold directly in the U.S. and several European Union, or EU, countries by Alimera Sciences, Inc., or Alimera. Retisert®, one of our earlier generation products, was approved in 2005 by the FDA for the treatment of chronic NIPU and is sold in the U.S. by Bausch & Lomb Incorporated, or Bausch & Lomb. Our development programs are focused primarily on developing sustained release products that utilize our Durasert and Verisome technology platforms to deliver approved drugs to treat chronic diseases. Our strategy includes developing products independently while continuing to leverage our technology platforms through collaborations and license agreements.

For more information about our company, please refer to other documents that we have filed with the SEC and that are incorporated by reference into this prospectus, as listed under the heading "Incorporation by Reference."

Corporate Information

We were incorporated under the laws of the state of Delaware on March 19, 2008 under the name New pSivida, Inc.; our predecessor, pSivida Limited, was formed in December 2000 as an Australian company incorporated in Western Australia. We subsequently changed our name to pSivida Corp. in May 2008 and again to EyePoint Pharmaceuticals, Inc. in March 2018. Our principal executive office is located at 480 Pleasant Street, Watertown, Massachusetts 02472 and our telephone number is (617) 926-5000. Our website address is www.eyepointpharma.com. The information contained on, or that can be accessed through, our website is not a part of this prospectus. We have included our website address in this prospectus solely as an inactive textual reference.

DEXYCUTM, YUTIQTM and DurasertTM are our trademarks. Retisert[®] is Bausch & Lomb's trademark. ILUVIEN[®] is Alimera's trademark. Verisome[®] is Ramscor, Inc.'s trademark. Information with respect to ILUVIEN, including regulatory and marketing information, and Alimera's plans and intentions, reflects information publicly disclosed by Alimera.

RISK FACTORS

Investing in our securities involves a high degree of risk. The prospectus supplement applicable to each offering of our securities will contain a discussion of the risks applicable to an investment in our securities. Prior to making a decision about investing in our securities, you should carefully consider the specific factors discussed under the heading "Risk Factors" in the applicable prospectus supplement, together with all of the other information contained or incorporated by reference in the prospectus supplement or appearing or incorporated by reference in this prospectus. You should also consider the risks, uncertainties and assumptions discussed under the heading "Risk Factors" in our most recent Annual Report on Form 10-K and our Quarterly Reports on Form 10-Q and other documents that we file with the SEC, which are incorporated herein by reference as described in this prospectus under the heading "Where You Can Find More Information". The risks and uncertainties we have described in such documents are not the only risks that we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our operations.

USE OF PROCEEDS

Except as otherwise provided in the applicable prospectus supplement relating to a specific offering, we intend to use the net proceeds from the sale of securities by us under this prospectus for general corporate purposes, which may include working capital, capital expenditures, research and development expenditures, clinical trial expenditures, commercial expenditures, debt service costs and repayment, acquisitions of new technologies, products or businesses, and investments. Additional information on the use of net proceeds from the sale of securities by us under this prospectus may be set forth in the prospectus supplement relating to the specific offering.

PLAN OF DISTRIBUTION

We may sell the securities, from time to time, to or through underwriters or dealers, through agents or remarketing firms, or directly to one or more purchasers pursuant to:

- underwritten public offerings;
- negotiated transactions;
- block trades;
- "At the Market Offerings," within the meaning of Rule 415(a)(4) of the Securities Act of 1933, as amended, or the Securities Act, into an existing trading market, at prevailing market prices; or
- through a combination of these methods.

We may sell the securities to or through one or more underwriters or dealers (acting as principal or agent), through agents, or directly to one or more purchasers.

We may distribute securities from time to time in one or more transactions:

- at a fixed price or prices, which may be changed;
- at market prices prevailing at the time of sale;
- at prices related to such prevailing market prices; or
- at negotiated prices.

A prospectus supplement or supplements (and any related free writing prospectus that we may authorize to be provided to you) will describe the terms of the offering of the securities, including, to the extent applicable:

- the name or names of the underwriters, dealers or agents, if any;
- if the securities are to be offered through the selling efforts of brokers or dealers, the plan of distribution and the terms of any agreement, arrangement, or understanding entered into with broker(s) or dealer(s) prior to the effective date of the registration statement, and, if known, the identity of any broker(s) or dealer(s) who will participate in the offering and the amount to be offered through each;
- the purchase price of the securities or other consideration therefor, and the proceeds, if any, we will receive from the sale;
- if any of the securities being registered are to be offered otherwise than for cash, the general purposes of the distribution, the basis upon which the securities are to be offered, the amount of compensation and other expenses of distribution, and by whom they are to be borne;
- any delayed delivery arrangements;
- any over-allotment or other options under which underwriters may purchase additional securities from us;
- any agency fees or underwriting discounts and other items constituting agents' or underwriters' compensation;
- any public offering price;
- any discounts, commissions or concessions allowed or reallowed or paid to dealers;
- the identity and relationships of any finders, if applicable; and
- any securities exchange or market on which the securities may be listed.

In compliance with the guidelines of the Financial Industry Regulatory Authority, the maximum compensation to the underwriters or dealers in connection with the sale by the Company of its securities pursuant to this prospectus and the accompanying supplement to this prospectus may not exceed 8% of the aggregate offering price of the securities as set forth on the cover page of any prospectus supplement.

Only underwriters named in the prospectus supplement will be underwriters of the securities offered by the prospectus supplement.

If underwriters are used in the sale, they will acquire the securities for their own account and may resell the securities from time to time in one or more transactions at a fixed public offering price or at varying prices determined at the time of sale. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. We may offer the securities to the public through underwriting syndicates represented by managing underwriters or by underwriters without a syndicate. Unless otherwise indicated in the prospectus supplement, subject to certain conditions, the underwriters will be obligated to purchase all of the securities offered by the prospectus supplement, other than securities covered by any over-allotment option. Any public offering price and any discounts or concessions allowed or reallowed or paid to dealers may change from time to time. We may use underwriters, dealers or agents with whom we have a material relationship. We will describe in the prospectus supplement, naming the underwriter, dealer or agent, the nature of any such relationship.

We may use a remarketing firm to offer the securities in connection with a remarketing arrangement upon their purchase. Remarketing firms will act as principals for their own account or as agents for us. These remarketing firms will offer or sell the securities pursuant to the terms of the securities. A prospectus supplement will identify any remarketing firm and the terms of its agreement, if any, with us and will describe the remarketing firm's compensation. Remarketing firms may be deemed to be underwriters in connection the securities they remarket.

If we offer and sell securities through a dealer, we or an underwriter will sell the securities to the dealer, as principal. The dealer may then resell the securities to the public at varying prices to be determined by the dealer at the time of resale. The name of the dealer and the terms of the transaction will be set forth in the applicable prospectus supplement.

We may sell securities directly or through agents we designate from time to time. We will name any agent involved in the offering and sale of securities and we will describe any commissions payable to the agent in the prospectus supplement. Unless the prospectus supplement states otherwise, the agent will act on a best-efforts basis for the period of its appointment.

Dealers and agents participating in the distribution of the securities may be deemed to be underwriters, and compensation received by them on resale of the securities may be deemed to be underwriting discounts. If such dealers or agents were deemed to be underwriters, they may be subject to statutory liabilities under the Securities Act.

We may sell securities directly to one or more purchasers without using underwriters or agents. Underwriters, dealers and agents that participate in the distribution of the securities may be underwriters as defined in the Securities Act, and any discounts or commissions they receive from us and any profit on their resale of the securities may be treated as underwriting discounts and commissions under the Securities Act.

We may authorize agents or underwriters to solicit offers by certain types of institutional investors to purchase securities from us at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. We will describe the conditions to these contracts and the commissions we must pay for solicitation of these contracts in the prospectus supplement.

We may provide agents, underwriters and dealers with indemnification against civil liabilities, including liabilities under the Securities Act, or contribution with respect to payments that the agents, underwriters or

dealers may make with respect to these liabilities. Agents, underwriters and dealers, or their respective affiliates, may engage in transactions with, or perform services for, us in the ordinary course of business.

The securities we offer may be new issues of securities and may have no established trading market. The securities may or may not be listed on a securities exchange. Underwriters may make a market in these securities, but will not be obligated to do so and may discontinue any market making at any time without notice. We can make no assurance as to the liquidity of, or the existence of trading markets for, any of the securities.

Any underwriter may engage in over-allotment, stabilizing transactions, short-covering transactions and penalty bids in accordance with Regulation M under the Securities Exchange Act of 1934, as amended, or the Exchange Act. Over-allotment involves sales in excess of the offering size, which create a short position. Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do not exceed a specified maximum price. Syndicate-covering or other short-covering transactions involve purchases of the securities, either through exercise of the over-allotment option or in the open market after the distribution is completed, to cover short positions. Penalty bids permit the underwriters to reclaim a selling concession from a dealer when the securities originally sold by the dealer are purchased in a stabilizing or covering transaction to cover short positions. Those activities may cause the price of the securities to be higher than it would otherwise be. If commenced, the underwriters may discontinue any of the activities at any time.

Any underwriters that are qualified market makers on the Nasdaq Global Market may engage in passive market making transactions in the common stock on the Nasdaq Global Market in accordance with Regulation M under the Exchange Act, during the business day prior to the pricing of the offering, before the commencement of offers or sales of the common stock. Passive market makers must comply with applicable volume and price limitations and must be identified as passive market makers. In general, a passive market maker must display its bid at a price not in excess of the highest independent bid for such security; if all independent bids are lowered below the passive market maker's bid, however, the passive market maker's bid must then be lowered when certain purchase limits are exceeded. Passive market making may stabilize the market price of the securities at a level above that which might otherwise prevail in the open market and, if commenced, may be discontinued at any time.

GENERAL DESCRIPTION OF OUR SECURITIES

We may offer and sell, at any time and from time to time:

- shares of our common stock;
- shares of our preferred stock;
- warrants to purchase shares of our common stock, preferred stock and/or debt securities;
- debt securities consisting of debentures, notes or other evidences of indebtedness;
- units consisting of a combination of the foregoing securities; or
- any combination of these securities.

The terms of any securities we offer will be determined at the time of sale. We may issue debt securities that are exchangeable for and/or convertible into common stock or any of the other securities that may be sold under this prospectus. When particular securities are offered by us, a supplement to this prospectus will be filed with the SEC, which will describe the terms of the offering and sale of the offered securities.

DESCRIPTION OF OUR COMMON STOCK

The following summary of the terms of our common stock is subject to and qualified in its entirety by reference to our certificate of incorporation and by-laws, copies of which are on file with the SEC as exhibits to previous filings with the SEC. Please refer to "Where You Can Find More Information" below for directions on obtaining these documents.

Outstanding Shares

Our certificate of incorporation authorizes us to issue up to 155,000,000 shares, 150,000,000 of which is designated as common stock with a par value of \$0.001 per share. As of November 16, 2018, there were 94,978,705 shares of common stock outstanding, held by 103 stockholders of record. This figure does not reflect the number of beneficial owners of shares of our common stock as a single stockholder of record often holds shares in nominee name (also referred to as, in "street name") on behalf of multiple beneficial owners.

Voting Rights

Holders of shares of our common stock are entitled to one vote for each share held of record on all matters to be voted on by stockholders, including the election of directors. When a quorum is present at any meeting, a plurality of the votes properly cast for election to any office shall elect to such office and a majority of the votes properly cast upon any question other than an election to an office shall decide the question, except when a larger vote is required by law, by our certificate of incorporation or by our by-laws.

Our certificate of incorporation and by-laws do not provide for cumulative voting rights. Because of this, the holders of a majority of the shares of common stock entitled to vote in any election of directors can elect all of the directors standing for election, if they should so choose.

Dividends

Subject to the preferences that may be applicable to any then outstanding preferred stock, the holders of our outstanding shares of common stock are entitled to receive dividends, if any, as may be declared from time to time by our board of directors out of legally available funds. We have never paid a dividend and we do not anticipate paying a dividend in the foreseeable future.

Liquidation

In the event of our liquidation, dissolution or winding up, holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities, subject to the satisfaction of any liquidation preference granted to the holders of any outstanding shares of preferred stock.

No Preemptive or Similar Rights

The terms of our common stock do not include any preemptive, conversion or subscription rights, nor any redemption or sinking fund provisions.

The rights, preferences and privileges of the holders of our common stock are subject to, and may be adversely affected by, the rights of shares of any series of our preferred stock that we may classify and issue in the future.

Outstanding Stock Options

As of November 16, 2018, we had outstanding options to purchase 6,344,377 shares of our common stock at a weighted-average exercise price of \$2.77 per share, pursuant to our 2008 Incentive Plan and our 2016 Long-Term Incentive Plan.

As of November 16, 2018, we had outstanding options to purchase 1,525,000 shares of our common stock at a weighted-average exercise price of \$2.96 per share, which options were issued outside of our equity compensation plans.

Outstanding Stock Units

As of November 16, 2018, we had (i) 1,395,829 shares of our common stock underlying outstanding restricted stock units; (ii) 370,000 shares of our common stock underlying outstanding performance-based stock units; and (iii) 35,418 shares of our common stock underlying outstanding deferred stock units.

Outstanding Warrants

On March 28, 2018, we entered into a credit agreement, or the Credit Agreement, among us, as borrower, SWK Funding LLC, as agent, or the Agent, and the lenders party thereto from time to time, providing for a senior secured term loan of up to \$20 million, or the Loan. In connection with the Loan, we issued a warrant, or the SWK Warrant, to the Agent to purchase (a) 409,091 shares of our common stock, or the Initial Advance Warrant Shares, and (b) 77,721 shares of our common stock, or the Additional Advance Warrant Shares. The SWK Warrant was exercisable with respect to the Initial Advance Warrant Shares on June 26, 2018 at an exercise price of \$1.10 per share. The SWK Warrant will remain exercisable (x) until the close of business on March 28, 2025 with respect to the Initial Advance Warrant Shares and (y) until the close of business on June 26, 2025 with respect to the Additional Advance Warrant Shares.

Registration Rights

On March 28, 2018, we entered into (i) a Securities Purchase Agreement, or the First Tranche Securities Purchase Agreement, with EW Healthcare Partners, L.P. and EW Healthcare Partners-A, L.P., or the First Tranche Investors, pursuant to which we offered and sold to such investors an aggregate of 8,606,324 shares of our common stock, or the First Tranche Transaction, and (ii) a Second Securities Purchase Agreement, or the Second Tranche Securities Purchase Agreement, with the First Tranche Investors and certain other accredited investors signatory thereto, or the Second Tranche Investors, pursuant to which we agreed to offer and sell, subject to the approval of our stockholders, an aggregate of up to approximately \$25.5 million of units, with each unit consisting of (a) one share of our common stock and (b) one warrant to purchase a share of our common stock, or the Second Tranche Transaction.

In connection with the First Tranche Transaction, we entered into a Registration Rights Agreement with the First Tranche Investors with respect to the shares issued to the First Tranche Investors. In connection with the closing of the Second Tranche Transaction, we entered into a Second Registration Rights Agreement with the Second Tranche Investors with respect to the shares of common stock underlying the units. In addition, pursuant to the terms of the SWK Warrant, we granted the Agent certain registration rights with respect to the Initial Advance Warrant Shares and the Additional Advance Warrant Shares. A registration statement relating to such shares was filed with the SEC on July 25, 2018 and declared effective by the SEC on November 1, 2018.

Director Nomination Rights

Per the terms of the First Tranche Securities Purchase Agreement, the First Tranche Investors have the right, subject to certain customary limitations and restrictions, to nominate one individual to our board of directors for so long as they beneficially own shares of our common stock. Mr. Eastman, a Managing Director of EW Healthcare Partners, which is an affiliate of both of the First Tranche Investors was appointed to our board of directors as the designee of the First Tranche Investors pursuant to the First Tranche Securities Purchase Agreement.

Per the terms of the Second Tranche Securities Purchase Agreement, the First Tranche Investors have the right, subject to certain customary limitations and restrictions, to nominate one individual to our board of directors for so long as they beneficially own shares of our common stock. Dr. Ando, Senior Advisor to EW Healthcare Partners, which is an affiliate of both of the First Tranche Investors, was appointed to our board of directors as the designee of the First Tranche Investors pursuant to the Second Tranche Securities Purchase Agreement.

Description of Certain Provisions of Delaware Law and our Certificate of Incorporation and By-laws

Section 203 of the Delaware General Corporation Law

We are subject to the provisions of Section 203 of the Delaware General Corporation Law. In general, Section 203 prohibits a publicly held Delaware corporation from engaging in a "business combination" with an "interested stockholder" for a three-year period following the time that this stockholder becomes an interested stockholder, unless the business combination is approved in a prescribed manner. Under Section 203, a business combination between a corporation and an interested stockholder is prohibited unless it satisfies one of the following conditions:

- prior to the date of the transaction, the board of directors of the corporation approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;
- the interested stockholder owned at least 85% of the voting stock of the corporation outstanding upon consummation of the transaction, excluding for purposes of determining the number of shares outstanding (1) shares owned by persons who are directors and also officers and (2) shares owned by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- on or subsequent to the consummation of the transaction, the business combination is approved by the board of directors and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least 66-2/3% of the outstanding voting stock which is not owned by the interested stockholder.

Section 203 defines a business combination to include:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, lease, pledge or other disposition involving the interested stockholder of 10% or more of the assets of the corporation;

- subject to exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- subject to exceptions, any transaction involving the corporation that has the effect of increasing the proportionate share of the stock of any class or series of the corporation beneficially owned by the interested stockholder; and
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 defines an interested stockholder as any entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with or controlling or controlled by the entity or person.

Certificate of Incorporation and By-laws

Provisions of our certificate of incorporation and by-laws may delay or discourage transactions involving an actual or potential change of control or change in our management, including transactions in which stockholders might otherwise receive a premium for their shares, or transactions that our stockholders might otherwise deem to be in their best interests. Therefore, these provisions could adversely affect the price of our common stock. Among other things, our certificate of incorporation and our by-laws:

- permit our board of directors to issue up to 5,000,000 shares of preferred stock, with any rights, preferences and privileges as it may designate, which issuance could result in the loss of voting control by other stockholders;
- subject to any director nomination rights afforded the First Tranche Investors, provide that all vacancies on our board of directors, including as a result of newly created directorships, may, except as otherwise required by law, be filled only by the affirmative vote of a majority of directors then in office, even if less than a quorum;
- provide that, with the exception of director nominees submitted by the First Tranche Investors, stockholders seeking to present proposals before a meeting of stockholders or to nominate candidates for election as directors at a meeting of stockholders must provide advance notice in writing, and also specify requirements as to the form and content of a stockholder's notice;
- do not provide for cumulative voting rights, thereby allowing the holders of a majority of the shares of common stock entitled to vote in any election of directors to elect all of the directors standing for election; and
- provide that special meetings of our stockholders may be called only by the (i) the chairperson of the board; (ii) the president of the Company; or (iii) a majority of the members of our board of directors then in office.

The Nasdaq Global Market

Our shares of common stock are listed for trading on the Nasdaq Global Market under the symbol "EYPT."

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Computershare Trust Company, N.A.

DESCRIPTION OF OUR PREFERRED STOCK

We currently have authorized 5,000,000 shares of preferred stock, par value \$0.001 per share, of which no shares have been designated.

Our board of directors may, without further action by our stockholders, from time to time, direct the issuance of shares of preferred stock in series and may, at the time of issuance, determine and fix the number of shares of such series and the designation of such series, the voting powers, if any, of the shares of such series, the preferences and relative, participating, optional or other special rights, if any, and the qualifications, limitations or restrictions thereof, including without limitation thereof, dividend rights, conversion rights, redemption privileges and liquidation preferences, of the shares of such series. Satisfaction of any dividend preferences of outstanding shares of our preferred stock would reduce the amount of funds available for the payment of dividends on shares of our common stock. Holders of shares of our preferred stock may be entitled to receive a preference payment in the event of any liquidation, dissolution or winding-up of our Company before any payment is made to the holders of shares of our common stock. In some circumstances, the issuance of shares of preferred stock may render more difficult or tend to discourage a merger, tender offer or proxy contest, the assumption of control by a holder of a large block of our securities or the removal of incumbent management. Upon the affirmative vote of our board of directors, without stockholder approval, we may issue shares of preferred stock with voting and conversion rights which could adversely affect the holders of shares of our common stock. It is not possible to state the actual effect of the issuance of any shares of preferred stock on the rights of holders of common stock until the board of directors determines the specific rights attached to that preferred stock. We have no current plan to issue any shares of preferred stock.

If we offer a specific series of preferred stock under this prospectus, we will describe the terms of the preferred stock in the prospectus supplement for such offering and will file a copy of the certificate establishing the terms of the preferred stock with the SEC. To the extent required, this description will include:

- the title and stated value;
- the number of shares offered, the liquidation preference per share, and the purchase price;
- the dividend rate(s), period(s), and/or payment date(s), or method(s) of calculation for such dividends;
- whether dividends will be cumulative or non-cumulative and, if cumulative, the date from which dividends will accumulate;
- the procedures for any auction and remarketing, if any;
- the provisions for a sinking fund, if any;
- the provisions for redemption, if applicable;
- any listing of the preferred stock on any securities exchange or market;
- whether the preferred stock will be convertible into our common stock or other securities of the Company, and, if applicable, the conversion price (or how it will be calculated), the conversion period and any other terms of conversion (including any anti-dilution provisions, if any);
- whether the preferred stock will be exchangeable into debt securities, and, if applicable, the exchange price (or how it will be calculated), the exchange period and any other terms of exchange (including any anti-dilution provisions, if any);
- voting rights, if any, of the preferred stock;
- a discussion of any material and/or special U.S. federal income tax considerations applicable to the preferred stock;
- the relative ranking and preferences of the preferred stock as to dividend rights and rights upon liquidation, dissolution, or winding up of our affairs; and

- any material limitations on issuance of any class or series of preferred stock ranking senior to or on a parity with the series of preferred stock as to dividend rights and rights upon our liquidation, dissolution, or winding up; and
- any other affirmative, negative or other covenants or contractual rights which might be attendant with the specific series of preferred stock.

The preferred stock offering by this prospectus, when issued, will not have, or be subject to, any preemptive or similar rights.

Transfer Agent and Registrar

The transfer agent and registrar for any series of preferred stock will be set forth in each applicable prospectus supplement.

DESCRIPTION OF OUR WARRANTS

We may issue warrants to purchase shares of our common stock, preferred stock and/or debt securities in one or more series together with other securities or separately, as described in each applicable prospectus supplement. Below is a description of certain general terms and provisions of the warrants that we may offer. Particular terms of the warrants will be described in the applicable warrant agreements and the applicable prospectus supplement for the warrants.

The applicable prospectus supplement will contain, where applicable, the following terms of and other information relating to the warrants:

- the specific designation and aggregate number of, and the price at which we will issue, the warrants;
- the currency or currency units in which the offering price, if any, and the exercise price are payable;
- the designation, amount and terms of the securities purchasable upon exercise of the warrants;
- if applicable, the exercise price for shares of our common stock and the number of shares of common stock to be received upon exercise of the warrants;
- if applicable, the exercise price for shares of our preferred stock, the number of shares of preferred stock to be received upon exercise of the warrants, and a description of that series of our preferred stock;
- if applicable, the exercise price for our debt securities, the amount of our debt securities to be received upon exercise of the warrants, and a description of that series of debt securities;
- the date on which the right to exercise the warrants will begin and the date on which that right will expire or, if the warrants may not be continuously exercised throughout that period, the specific date or dates on which the warrants may be exercised;
- whether the warrants will be issued in fully registered form or bearer form, in definitive or global form or in any combination of these forms, although, in any case, the form of a warrant included in a unit will correspond to the form of the unit and of any security included in that unit;
- any applicable material U.S. federal income tax or foreign tax consequences;
- the identity of the warrant agent for the warrants, if any, and of any other depositaries, execution or paying agents, transfer agents, registrars or other agents;
- the proposed listing, if any, of the warrants or any securities purchasable upon exercise of the warrants on any securities exchange or market;

- if applicable, the date from and after which the warrants and the common stock, preferred stock and/or debt securities will be separately transferable;
- if applicable, the minimum or maximum amount of the warrants that may be exercised at any one time;
- information with respect to book-entry procedures, if any
- the anti-dilution provisions of the warrants, if any;
- any redemption, put or call provisions;
- whether the warrants are to be sold separately or with other securities as parts of units; and
- any additional terms of the warrants, including terms, procedures and limitations relating to the exchange and exercise of the warrants.

Transfer Agent and Registrar

The transfer agent and registrar for any warrants will be set forth in the applicable prospectus supplement.

Description of Outstanding Warrants

As of November 16, 2018, there were 486,812 warrants to purchase shares of our common stock outstanding. See "Description of Our Capital Stock – Description of Our Common Stock – Outstanding Warrants."

DESCRIPTION OF OUR DEBT SECURITIES

This section describes the general terms and provisions of the debt securities that we may offer under this prospectus, any of which may be issued as convertible or exchangeable debt securities. We will set forth the particular terms of the debt securities we offer in a prospectus supplement. The extent, if any, to which the following general provisions apply to particular debt securities will be described in the applicable prospectus supplement. The following description of general terms relating to the debt securities and the indenture under which the debt securities will be issued are summaries only and therefore are not complete. You should read the indenture and the prospectus supplement regarding any particular issuance of debt securities.

We will issue the debt securities offered by this prospectus and any accompanying prospectus supplement under an indenture to be entered into between us and the trustee identified in the applicable prospectus supplement. The terms of the debt securities will include those stated in the indenture and those made part of the indenture by reference to the Trust Indenture Act of 1939, as in effect on the date of the indenture. We have filed or will file a copy of the form of indenture as an exhibit to the registration statement in which this prospectus is included. The indenture will be subject to and governed by the terms of the Trust Indenture Act of 1939.

We may offer under this prospectus up to an aggregate principal amount of \$75,000,000 in debt securities, or if debt securities are issued at a discount, or in a foreign currency, foreign currency units or composite currency, the principal amount as may be sold for an aggregate initial public offering price of up to \$75,000,000. Unless otherwise specified in the applicable prospectus supplement, the debt securities will represent direct, unsecured obligations of EyePoint and will rank equally with all of our other unsecured indebtedness.

The following statements relating to the debt securities and the indenture are summaries, qualified in their entirety by reference to the detailed provisions of the indenture and the final form indenture as may be filed with a future prospectus supplement.

General

We may issue the debt securities in one or more series with the same or various maturities, at par, at a premium, or at a discount. We will describe the particular terms of each series of debt securities in a prospectus supplement relating to that series, which we will file with the SEC.



The prospectus supplement will set forth, to the extent required, the following terms of the debt securities in respect of which the prospectus supplement is delivered:

- the title of the series;
- the aggregate principal amount;
- the issue price or prices, expressed as a percentage of the aggregate principal amount of the debt securities;
- any limit on the aggregate principal amount;
- the date or dates on which principal is payable;
- the interest rate or rates (which may be fixed or variable) or, if applicable, the method used to determine such rate or rates;
- the date or dates from which interest, if any, will be payable and any regular record date for the interest payable;
- the place or places where principal and, if applicable, premium and interest, is payable;
- the terms and conditions upon which we may, or the holders may require us to, redeem or repurchase the debt securities;
- the denominations in which such debt securities may be issuable, if other than denominations of \$1,000 or any integral multiple of that number;
- whether the debt securities are to be issuable in the form of certificated debt securities (as described below) or global debt securities (as described below);
- the portion of principal amount that will be payable upon declaration of acceleration of the maturity date if other than the principal amount of the debt securities;
- the currency of denomination;
- the designation of the currency, currencies or currency units in which payment of principal and, if applicable, premium and interest, will be made;
- if payments of principal and, if applicable, premium or interest, on the debt securities are to be made in one or more currencies or currency units other than the currency of denomination, the manner in which the exchange rate with respect to such payments will be determined;
- if amounts of principal and, if applicable, premium and interest may be determined by reference to an index based on a currency or currencies or by reference to a commodity, commodity index, stock exchange index or financial index, then the manner in which such amounts will be determined;
- the provisions, if any, relating to any collateral provided for such debt securities;
- any addition to or change in the covenants and/or the acceleration provisions described in this prospectus or in the indenture;
- any events of default, if not otherwise described below under "Events of Default";
- the terms and conditions, if any, for conversion into or exchange for shares of our common stock or preferred stock;
- any depositaries, interest rate calculation agents, exchange rate calculation agents or other agents; and
- the terms and conditions, if any, upon which the debt securities shall be subordinated in right of payment to other indebtedness of EyePoint.

We may issue discount debt securities that provide for an amount less than the stated principal amount to be due and payable upon acceleration of the maturity of such debt securities in accordance with the terms of the indenture. We may also issue debt securities in bearer form, with or without coupons. If we issue discount debt

securities or debt securities in bearer form, we will describe material U.S. federal income tax considerations and other material special considerations that apply to these debt securities in the applicable prospectus supplement.

We may issue debt securities denominated in or payable in a foreign currency or currencies or a foreign currency unit or units. If we do, we will describe the restrictions, elections, and general tax considerations relating to the debt securities and the foreign currency or currencies or foreign currency unit or units in the applicable prospectus supplement.

Exchange and/or Conversion Rights

We may issue debt securities which can be exchanged for or converted into shares of our common stock or preferred stock. If we do, we will describe the terms of exchange or conversion in the prospectus supplement relating to these debt securities.

Transfer and Exchange

We may issue debt securities that will be represented by either:

- book-entry securities," which means that there will be one or more global securities registered in the name of a depositary or a nominee of a depositary; or
- certificated securities," which means that they will be represented by a certificate issued in definitive registered form.

We will specify in the prospectus supplement applicable to a particular offering whether the debt securities offered will be book-entry or certificated securities.

Certificated Debt Securities

If you hold certificated debt securities issued under an indenture, you may transfer or exchange such debt securities in accordance with the terms of the indenture. You will not be charged a service charge for any transfer or exchange of certificated debt securities but may be required to pay an amount sufficient to cover any tax or other governmental charge payable in connection with such transfer or exchange.

Global Securities

The debt securities of a series may be issued in the form of one or more global securities that will be deposited with a depositary or its nominees identified in the prospectus supplement relating to the debt securities. In such a case, one or more global securities will be issued in a denomination or aggregate denominations equal to the portion of the aggregate principal amount of outstanding debt securities of the series to be represented by such global security or securities.

Unless and until it is exchanged in whole or in part for debt securities in definitive registered form, a global security may not be registered for transfer or exchange except as a whole by the depositary for such global security to a nominee of the depositary and except in the circumstances described in the prospectus supplement relating to the debt securities. The specific terms of the depositary arrangement with respect to a series of debt securities will be described in the prospectus supplement relating to such series.

Protection in the Event of Change of Control

Any provision in an indenture that governs our debt securities covered by this prospectus that includes any covenant or other provision providing for a put or increased interest or otherwise that would afford holders of our debt securities additional protection in the event of a recapitalization transaction, a change of control of the Company, or a highly leveraged transaction will be described in the applicable prospectus supplement.

Covenants

Unless otherwise indicated in this prospectus or the applicable prospectus supplement, our debt securities may not have the benefit of any covenant that limits or restricts our business or operations, the pledging of our assets or the incurrence by us of indebtedness. We will describe in the applicable prospectus supplement any material covenants in respect of a series of debt securities.

Consolidation, Merger and Sale of Assets

We may agree in any indenture that governs the debt securities of any series covered by this prospectus that we will not consolidate with or merge into any other person or convey, transfer, sell or lease our properties and assets substantially as an entirety to any person, unless such person and such proposed transaction meets various criteria, which we will describe in detail in the applicable prospectus supplement.

Defaults and Notice

The debt securities of any series will contain events of default to be specified in the applicable prospectus supplement, which may include, without limitation:

- failure to pay the principal of, or premium or make-whole amount, if any, on any debt security of such series when due and payable (whether at maturity, by call for redemption, through any mandatory sinking fund, by redemption at the option of the holder, by declaration or acceleration or otherwise);
- failure to make a payment of any interest on any debt security of such series when due;
- our failure to perform or observe any other covenants or agreements in the indenture with respect to the debt securities of such series;
- · certain events relating to our bankruptcy, insolvency or reorganization; and
- certain cross defaults, if and as applicable.

If an event of default with respect to debt securities of any series shall occur and be continuing, we may agree that the trustee or the holders of at least 25% in aggregate principal amount of the then outstanding debt securities of such series may declare the principal amount (or, if the debt securities of such series are issued at an original issue discount, such portion of the principal amount as may be specified in the terms of the debt securities of such series) of all debt securities of such series or such other amount or amounts as the debt securities or supplemental indenture with respect to such series may provide, to be due and payable immediately. Any provisions pertaining to events of default and any remedies associated therewith will be described in the applicable prospectus supplement.

Any indenture that governs our debt securities covered by this prospectus may require that the trustee under such indenture shall, within 90 days after the occurrence of a default, give to holders of debt securities of any series notice of all uncured defaults with respect to such series known to it. However, in the case of a default that results from the failure to make any payment of the principal of, premium or make-whole amount, if any, or interest on the debt securities of any series, or in the payment of any mandatory sinking fund installment with respect to debt securities of such series, if any, the trustee may withhold such notice if it in good faith determines that the withholding of such notice is in the interest of the holders of debt securities of such series. Any terms and provisions relating to the foregoing types of provisions will be described in further detail in the applicable prospectus supplement.

Any indenture that governs our debt securities covered by this prospectus will contain a provision entitling the trustee to be indemnified by holders of debt securities before proceeding to exercise any trust or power under the indenture at the request of such holders. Any such indenture may provide that the holders of at least a majority in aggregate principal amount of the then outstanding debt securities of any series may direct the time, method and

place of conducting any proceedings for any remedy available to the trustee, or of exercising any trust or power conferred upon the trustee with respect to the debt securities of such series. However, the trustee under any such indenture may decline to follow any such direction if, among other reasons, the trustee determines in good faith that the actions or proceedings as directed may not lawfully be taken, would involve the trustee in personal liability or would be unduly prejudicial to the holders of the debt securities of such series not joining in such direction.

Any indenture that governs our debt securities covered by this prospectus may endow the holders of such debt securities to institute a proceeding with respect to such indenture, subject to certain conditions, which will be specified in the applicable prospectus supplement and which may include, that the holders of at least a majority in aggregate principal amount of the debt securities of such series then outstanding make a written request upon the trustee to exercise its power under the indenture, indemnify the trustee and afford the trustee reasonable opportunity to act. Even so, such holders may have an absolute right to receipt of the principal of, premium or make-whole amount, if any, and interest when due, to require conversion or exchange of debt securities if such indenture provides for convertibility or exchangeability at the option of the holder and to institute suit for the enforcement of such rights. Any terms and provisions relating to the foregoing types of provisions will be described in further detail in the applicable prospectus supplement.

Modification of the Indenture

We and the trustee may modify any indenture that governs our debt securities of any series covered by this prospectus with or without the consent of the holders of such debt securities, under certain circumstances to be described in a prospectus supplement.

Defeasance; Satisfaction and Discharge

The prospectus supplement will outline the conditions under which we may elect to have certain of our obligations under the indenture discharged and under which the indenture obligations will be deemed to be satisfied.

Regarding the Trustee

We will identify the trustee and any relationship that we may have with such trustee, with respect to any series of debt securities, in the prospectus supplement relating to the applicable debt securities. You should note that if the trustee becomes a creditor of EyePoint, the indenture and the Trust Indenture Act of 1939 limit the rights of the trustee to obtain payment of claims in certain cases, or to realize on certain property received in respect of any such claim, as security or otherwise. The trustee and its affiliates may engage in, and will be permitted to continue to engage in, other transactions with us and our affiliates. If, however, the trustee acquires any "conflicting interest" within the meaning of the Trust Indenture Act of 1939, it must eliminate such conflict or resign.

Governing Law

The law governing the indenture and the debt securities will be identified in the prospectus supplement relating to the applicable indenture and debt securities.

Term Loan Agreement

On March 28, 2018, or the Closing Date, we entered into the Credit Agreement providing for the Loan. On the Closing Date, \$15 million of the Loan was advanced, or the Initial Advance. The remaining \$5 million of the Loan was advanced on June 26, 2018 following satisfaction of the Minimum Capital Raise (as defined in the Credit Agreement) which we refer to as the Additional Advance. The Loan may be increased by \$10 million upon our request, subject to the Agent obtaining additional loan commitments and satisfaction of certain conditions in the Credit Agreement.

The Loan is due and payable on March 27, 2023, or the Maturity Date. The Loan bears interest at a per annum rate of the three-month LIBOR rate (subject to a 1.5% floor) plus 10.50%. The Credit Agreement permits us to pay interest only on the principal amount for the first eight payments (payments are due on a quarterly basis commencing May 15, 2018). Following the interest-only period, we will be required to make quarterly payments of interest, plus repayments of the principal in an aggregate amount of up to \$1.67 million per quarter, or the Quarterly Principal Repayment Cap. Subject to the Quarterly Principal Repayment Cap, the amount of any quarterly principal payments during any of our fiscal years is based on (x) a percentage of our year-to-date net revenue through the end of such quarter less (y) any prior quarterly principal and interest payments made during such fiscal year. In addition, we paid an upfront fee of 1.5% of the aggregate principal amount of the Loan. We are required to pay an exit fee equal to 6% of the aggregate principal amount advanced under the Credit Agreement, or the Exit Fee.

Upon the occurrence of a bankruptcy-related event of default, all amounts outstanding with respect to the Loan become due and payable immediately and upon the occurrence of any other Event of Default (as defined in the Credit Agreement), all or any amounts outstanding with respect to the Loan may become due and payable upon request of the Agent or majority Lenders. Additionally, subject to certain exceptions, we are required to make mandatory prepayments of the Loan with the proceeds of asset sales and insurance proceeds. We may make a voluntary prepayment of the Loan, in whole, but not in part, at any time on or after the first anniversary of the Closing Date. All mandatory and voluntary prepayments of the Loan are subject to the payment of prepayment premiums as follows: (i) in the case of mandatory prepayments, if prepayment occurs prior to the first anniversary of the Closing Date, a customary make-whole amount equal to the amount of interest that would have accrued on the principal amount so prepaid had it remained outstanding through the first anniversary of the Closing Date, (ii) if prepayment occurs on or after the first anniversary of the Closing Date, but prior to the second anniversary of the Closing Date, 6% of the aggregate amount of the principal prepaid and (iii) if prepayment occurs on or after the second anniversary of the Closing Date, but prior to the third anniversary of the Closing Date, an amount equal to 1% of the principal prepaid. No prepayment premium is due on any principal prepaid on or after the third anniversary of the Closing Date.

The Credit Agreement contains covenants that limit our ability to, among other things: incur certain additional indebtedness; pay dividends on, redeem or repurchase stock or make other distributions in respect of our capital stock; repurchase, prepay or redeem certain indebtedness; make certain investments; pay dividends or make other intercompany transfers; create liens; transfer or sell assets; consolidate, merge or sell or otherwise dispose of all or substantially all of its assets and enter into certain transactions with affiliates. In addition, the Credit Agreement contains financial covenants requiring us to (i) not permit our cash and cash equivalents held in certain deposit accounts to be less than \$4 million at any month end and (ii) not permit our aggregate revenue and earnings before interest, taxes, depreciation, and amortization to fall below certain agreed projection level.

DESCRIPTION OF OUR UNITS

The following description, together with the additional information we include in any applicable prospectus supplement, summarizes the material terms and provisions of the units that we may offer under this prospectus. Units may be offered independently or together with common stock, preferred stock, debt securities and/or warrants offered by any prospectus supplement, and may be attached to or separate from those securities. While the terms we have summarized below will generally apply to any future units that we may offer under this prospectus, we will describe the particular terms of any series of units that we may offer in more detail in the applicable prospectus supplement. The terms of any units offered under a prospectus supplement may differ from the terms described below.

We will incorporate by reference into the registration statement of which this prospectus forms a part the form of unit agreement, including a form of unit certificate, if any, that describes the terms of the series of units we are offering before the issuance of the related series of units. The following summaries of material provisions of the

units, and the unit agreements, are subject to, and qualified in their entirety by reference to, all the provisions of the unit agreement applicable to a particular series of units. We urge you to read the applicable prospectus supplements related to the units that we sell under this prospectus, as well as the complete unit agreements that contain the terms of the units.

General

We may issue units comprised of one or more shares of our common stock or preferred stock, debt securities and warrants in any combination. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date.

We will describe in the applicable prospectus supplement the terms of the series of units, including:

- the designation and terms of the units and of the securities comprising the units, including whether, and under what circumstances, those securities may be held or transferred separately;
- the rights and obligations of the unit agent, if any;
- any provisions of the governing unit agreement that differ from those described below; and
- any provisions for the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units.

The provisions described in this section, as well as those described under "Description of Our Common Stock," "Description of our Preferred Stock," "Description of Our Debt Securities" and "Description of Our Warrants," will apply to each unit and to any common stock, preferred stock, debt securities or warrants included in each unit, respectively.

Issuance in Series

We may issue units in such amounts and in numerous distinct series as we determine.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. The SEC maintains an Internet website at http://www.sec.gov that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. Our reports on Forms 10-K, 10-Q and 8-K, and amendments to those reports, are also available for download, free of charge, as soon as reasonably practicable after these reports are filed with, or furnished to, the SEC, at our website at http://eyepointpharma.com. Information contained on or accessible through our website is not a part of this prospectus or any prospectus supplement, and the inclusion of our website address in this prospectus is an inactive textual reference only.

The SEC allows us to "incorporate by reference" into this prospectus the information in other documents that we file with it. This means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is considered to be a part of this prospectus, and information in documents that we file later with the SEC will automatically update and supersede information contained in documents filed earlier with the SEC or contained in this prospectus. We incorporate by reference in this prospectus (i) the documents listed below, (ii) all documents that we file with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the initial filing of the registration statement of which this prospectus is included and prior to the effectiveness of such registration statement, and (iii) and any future filings that we may make with the SEC under Sections 13(a), 13(c), 14, or 15(d) of the Exchange Act prior to the termination of the offering under this prospectus; provided, however, that we are not incorporating, in each case, any documents or information deemed to have been furnished and not filed, including any information that we disclose under Items 2.02 or 7.01 of any Current Report on Form 8-K, in accordance with SEC rules:

- our Annual Report on Form 10-K for the fiscal year ended June 30, 2018 filed with the SEC on September 18, 2018, as amended by our Annual Report on Form 10-K/A filed with the SEC on October 29, 2018;
- our Quarterly Report on Form 10-Q for the fiscal quarter ended September 30, 2018, filed with the SEC on November 9, 2018;
- our Current Reports on Form 8-K as filed on <u>August 3, 2018</u>, <u>September 12, 2018</u>, <u>October 15, 2018</u>, <u>October 31, 2018</u> and <u>November 6, 2018</u>; and
- the description of our capital stock contained in <u>Form 8-K12G3</u> filed with the SEC on June 19, 2008, including any amendment or report filed for the purpose of updating such description.

You may request, orally or in writing, a copy of any or all of the documents incorporated herein by reference. These documents will be provided to you at no cost, by contacting: EyePoint Pharmaceuticals, Inc., Attn: Corporate Secretary, 480 Pleasant Street, Watertown, Massachusetts 02472. In addition, copies of any or all of the documents incorporated herein by reference may be accessed at our website at http://eyepointpharma.com. The information on such website is not incorporated by reference and is not a part of this prospectus.

LEGAL MATTERS

The validity of the issuance of the securities offered hereby will be passed upon for us by Hogan Lovells US LLP. As appropriate, legal counsel representing the underwriters, dealers or agents will be named in the accompanying prospectus supplement and may opine to certain legal matters.

EXPERTS

The consolidated financial statements incorporated in this prospectus by reference from the Company's annual report on Form 10-K for the year ended June 30, 2018 have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report, which is incorporated herein by reference (which report expresses an unqualified opinion and includes an explanatory paragraph referring to the substantial doubt about the Company's ability to continue as a going concern). Such consolidated financial statements have been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.



Up to \$25,000,000 Common Stock

PROSPECTUS SUPPLEMENT



August 5, 2020