

Scilex Holding Company (SCLX)
Rating: Buy

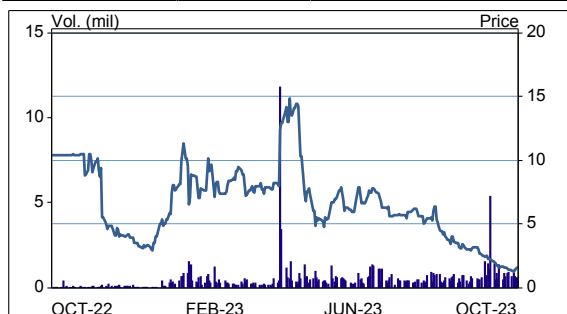
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Pulverizing Pain Without Opioid-Based Drugs; Initiating at Buy and \$12 PT

| Stock Data | 10/06/2023 |
|------------------------|------------|
| Price | \$1.57 |
| Exchange | NASDAQ |
| Price Target | \$12.00 |
| 52-Week High | \$16.90 |
| 52-Week Low | \$1.21 |
| Enterprise Value (M) | \$238 |
| Market Cap (M) | \$234 |
| Shares Outstanding (M) | 153.5 |
| 3 Month Avg Volume | 678,976 |
| Short Interest (M) | 2.75 |

| Balance Sheet Metrics | |
|-----------------------|--------|
| Cash (M) | \$34.1 |
| Total Debt (M) | \$37.7 |
| Total Cash/Share | \$0.22 |
| Book Value/Share | \$0.07 |

| EPS (\$) Diluted | | | |
|------------------|--------|---------|--------|
| Full Year - Dec | 2022A | 2023E | 2024E |
| 1Q | -- | (0.22)A | (0.14) |
| 2Q | -- | (0.19)A | (0.11) |
| 3Q | -- | (0.16) | (0.07) |
| 4Q | -- | (0.16) | (0.04) |
| FY | (0.17) | (0.72) | (0.35) |

| Revenue (\$M) | | | |
|-----------------|-------|-------|-------|
| Full Year - Dec | 2022A | 2023E | 2024E |
| 1Q | -- | 10.6A | 18.8 |
| 2Q | -- | 12.6A | 25.0 |
| 3Q | -- | 13.9 | 32.3 |
| 4Q | -- | 16.3 | 40.5 |
| FY | 38.0 | 53.4 | 116.6 |


A rapidly emerging powerhouse in pain relief—without opioids.

We are initiating coverage of Scilex Holding Company, a commercial-stage specialty pharmaceuticals enterprise with a diversified portfolio of marketed products as well as mid- to late-stage clinical assets that all constitute risk-mitigated prescription therapeutics. Scilex's marketed portfolio comprises the following products: (1) ZTlido (medicated lidocaine plaster), a novel, proprietary topical lidocaine patch product for neuropathic pain, particularly post-herpetic neuralgia (PHN); (2) Elyxyb (celecoxib oral solution)—a liquid formulation of a cyclooxygenase-2 (COX-2) inhibitor originally marketed by Pfizer under the trade name Celebrex—to treat migraines; and (3) Gloperba (oral colchicine solution) for gout prophylaxis. Scilex also has three intriguing advanced clinical-stage assets: (1) SEMDEXA (SP-102; dexamethasone gel for injection), which has already yielded positive Phase 3 pivotal data in sciatica or lumbar radicular pain; (2) SP-103 (medicated lidocaine plaster triple-strength), a higher-concentration version of the same formulation of lidocaine used in ZTlido for acute lower back pain (LBP), now in Phase 2 testing; and (3) SP-104 (delayed burst low-dose naltrexone) for treatment of fibromyalgia, which may enter Phase 3 assessment this year. Our rating is Buy with a 12-month price target of \$12.

Addressing pain with novel formulations of existing agents. In our view, Scilex is seeking to provide comprehensive pain management solutions in areas of high unmet need with novel formulations of existing drugs that do not constitute opioids. The opioid addiction crisis has become one of the severest medical problems in America over the past two decades, affecting an estimated 13M adults (5% of the total U.S. adult population) and contributing to 564K deaths in the U.S. alone from 1999 to 2020. Physicians are thus attempting to identify alternatives to opioid medications for pain management, which has proven challenging because of the well-established potency of these drugs. Scilex has successfully advanced multiple non-opioid pain relief agents for use in specialty indications that are difficult to manage and cannot be addressed using over-the-counter (OTC) analgesic drugs (e.g., acetaminophen, aspirin, ibuprofen). In our view, the fact that Scilex's portfolio consists of well-known active pharmaceutical ingredients (APIs) with well-established mechanisms and lengthy track records of safe, non-addictive human use mitigates risk and facilitates market uptake due to the extensive familiarity that specialist prescribers already have with these compounds.

Forward-integrated, diversified corporation demonstrating commercial execution. Scilex has an established sales and marketing organization in the U.S. spanning over 70 specialty sales representatives. The company achieved \$38M in top-line revenue last year, which we project to rise to \$53.4M in 2023 and \$116.6M in 2024. In our view, Scilex's valuation could eventually approach that of Pacira BioSciences (PCRX; Buy; Livnat), which trades at a \$1.4B valuation and \$1.8B enterprise value with a portfolio consisting of two franchises—namely, EXPAREL (bupivacaine liposome injection) for post-surgical pain and ZILRETTA (triamcinolone acetonide extended-release injectable) for knee osteoarthritis pain.

H.C. Wainwright 1868

Targeting large, well-established markets with potentially best-in-class therapeutics. Scilex's marketed products are aimed at massive markets—ZTlido is positioned in the neuropathic pain arena, which represents a roughly \$1.9B+ annual opportunity worldwide in PHN alone, while Elyxyb targets the migraine indication that comprises 39M patients in the U.S. alone and Gloperba is being positioned in the gout segment, spanning 8M U.S. patients. We believe that ZTlido peak sales could exceed \$260M annually in the U.S. by 2030, while we expect Elyxyb peak annual U.S. sales to reach \$270M by 2031. Gloperba could generate peak annual U.S. sales totaling almost \$830M in 2035. Among the development-stage products, we expect SP-102 to reach peak annual U.S. sales of \$1.7B in 2035, while the triple-strength lidocaine product candidate (SP-103) could achieve peak annual sales of \$276M in 2030. While fibromyalgia constitutes a rapidly growing market that is estimated to afflict 4M U.S. adults—about 2% of the overall population—we do not currently ascribe value to Scilex's SP-104 product candidate as we are awaiting definitive clinical proof-of-concept data.

Initial SP-102 Phase 2 data appear favorable. Last month, Scilex reported the completion of its SP-103 Phase 2, randomized, double-blind, placebo-controlled, parallel group, multi-center study to evaluate the safety and efficacy in subjects with acute LBP. Objectives of the trial were to assess safety and tolerability of SP-103 and to provide treatment effect estimates in patient population that can be used to power future studies. The trial enrolled 75 subjects, 38 received SP-103, and 37 received placebo. Topical systems were applied to the area of most tenderness in the lower back in 12-hours ON/12-hours OFF regimen. Preliminary analysis demonstrated a favorable safety profile, with no serious adverse events (SAEs) or deaths observed and no treatment emergent adverse events (TEAEs) leading to early withdrawal. None of the subjects in the active group and 3 (8.1%) subjects in placebo group had adverse events (AEs) of special interest (signs of lidocaine systemic toxicity). Incidence of dermal AEs or application site reactions was low overall. SP-103 was generally seen to be safe and well-tolerated. The trial data also indicated that an increase in lidocaine load in topical system by three-fold (3x) vs. approved ZTlido—i.e., 5.4% vs. 1.8%—did not result in signs of systemic toxicity or increased application site reactions with daily applications over one month treatment. A meaningful reduction in pain was observed over the first week, using a sum of pain intensity differences (SPID-7) analysis, -1.5 (95% CI: -0.2 to 3.2) was seen in a sub-population of patients with greater muscle spasm severity. Overall, the trial achieved its objectives according to Scilex and further data is slated to be released in the coming months. We expect the clinical development path for SP-102 to be clarified in 1H24.

Valuation and risks. We assess Scilex using a discounted cash flow (DCF)-based valuation methodology. This applies an 80% probability of approval to SEMDEXA (SP-102), while we assume 100% probability of approval for ZTlido, Elyxyb, Gloperba and SP-103. In our view, the SP-103 candidate should readily achieve market entry because it is simply a triple-strength version of the existing ZTlido product. We utilize a 10% discount rate and 1.5% terminal growth rate. In our view, these assumptions are reasonable given the well-established, mature and broad nature of Scilex's target markets and the risk-mitigated, well-characterized nature of its portfolio of marketed products and development-stage candidates. Our assumptions correspond to a total firm value of \$3.35B, which yields a price objective of \$12 per share assuming roughly 274M fully-diluted shares outstanding as of end-3Q24. Risks include, but are not limited to: (1) inability to achieve meaningful market traction with ZTlido, Elyxyb or Gloperba due to greater-than-anticipated competitive pressures or setbacks in obtaining reimbursement and formulary access; (2) failure to obtain regulatory approval in the U.S. for SEMDEXA or SP-103; (3) financial market risks; (4) broader macroeconomic risks related to the U.S. government shutdown negotiations and ongoing geopolitical fallout related to the Ukraine war; and (5) possible near- to medium-term dilution risk.

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I. Company Overview

Company Highlights

Snapshot

- Sector: Healthcare
- Classification: Specialty Pharma
- Founded in 2020
- Headquarters: Palo Alto, CA
- Employees: 90

ZTlido

- ZTlido is an FDA-approved skin patch that delivers efficacy for over 12 hours (45% bioavailability vs. 3% to 11% observed in competitor products, despite heavy drug loading)
- In addition, combining ZTlido with pregabalin could reduce pain intensity, suggesting potential combination therapy in many pain indications
- ZTlido was launched in October 2018 and is being promoted by a sales force of roughly 70 people

Financial Highlights

- Vickers Vantage Corp. (a Special Purpose Acquisition Company, or SPAC) acquired Scilex Holding Co. for \$1.5 billion in stock through a reverse takeover (deSPACing completed November 17, 2022)
- Shares trade on NASDAQ (ticker: SCLX)
- Cash position: \$34.1 million as of end-2Q23, with roughly \$15.6 million remaining to be drawn on a convertible debt facility and \$18.3 million remaining to be drawn on a collateralized loan

Elyxyb

- Elyxyb is a first-of-its-kind oral solution of celecoxib for migraine treatment (FDA approved in 2020)
- 33% of Elyxyb-treated patients (with or without aura) achieved pain relief at 2 hours, with 55% of those treated sustaining benefits through 24 hours
- Elyxyb was re-launched in 2Q23

Major shareholders:

- Vanguard Group (1.9%)

Gloperba

- Gloperba is a novel colchicine oral solution designed to prevent gout flares and facilitate dose adjustment in comorbid patients (previously impossible to achieve with existing colchicine formulations)
- This product is scheduled for launch in late 2023

Focus

- Scilex is a commercial-stage firm focused on acquiring, developing and commercializing non-opioids for pain management
- The company's flagship asset, ZTlido, is deployed for treatment of pain due to post-herpetic neuralgia (PHN) and possibly other forms of neuropathic pain as well
- In addition, the company recently in-licensed commercial rights to Elyxyb (migraine) and Gloperba (gout prophylaxis)
- In the next 12-18 months, we expect the principal stock catalysts to be sales of commercial drugs as well as results generated with clinical-stage assets in proof-of-concept or pivotal studies

Pipeline Programs

- SP-102 (SEMDEXA) produced positive Phase 3 data when evaluated in sciatica patients (launch in 2024)
- SP-103 (three times the dosage strength of ZTlido) is being evaluated in a Phase 2 study for treatment of low back pain, with potential launch in 2025
- SP-104 (low-dose naltrexone hydrochloride delayed-release capsules) is being evaluated for the treatment of fibromyalgia (Phase 2-ready)

Company Pipeline

| KEY PROGRAMS | PRECLINICAL | PHASE 1 | PHASE 2 | PHASE 3 / PIVOTAL | APPROVED | IP | MILESTONES / KEY COMMENTARY |
|--|---|---------|---------|-------------------|----------|------|---|
| ZTlido® (1.8% lidocaine topical system equivalent to 5% lidocaine) | Approved for the treatment of Postherpetic Neuralgia-PHN related pain | | | | | 2031 | <ul style="list-style-type: none"> Launched in the U.S. in October 2018 |
| GLOPERBA® (colchicine USP) oral solution (For the prevention of painful gout flares in adults) | Approved for the prevention of painful gout flares in adults | | | | | 2036 | <ul style="list-style-type: none"> 2H 2022: In-licensed U.S. rights 2023: U.S. launch |
| ELYXYB™ (celecoxib) oral solution (Acute Treatment of Migraine) | Approved for acute treatment of migraine | | | | | 2036 | <ul style="list-style-type: none"> 1Q 2023: In-licensed U.S. / Canadian rights 2Q 2023: U.S. launch |
| SP-102 (SEMDEXA™) (Lumbar Radicular / Sciatica Pain) | Fast Track / Pre-NDA | | | | | 2036 | <ul style="list-style-type: none"> 1H 2022: Phase III achieved endpoints 1H 2023: FDA discussion on Pre-NDA |
| SP-103 Lidocaine Topical System 5.4% (3X) (Acute Back Pain) | Fast Track | | | | | 2031 | <ul style="list-style-type: none"> 2Q 2022: Initiated Phase II trial |
| SP-104, Delayed Burst Low Dose Naltrexone (Fibromyalgia) | Prepare Phase II Trial | | | | | 2041 | <ul style="list-style-type: none"> 1H 2022: Completed Phase I trial(s) 2023: Initiate Phase II trials |

Our assumptions: ZTlido (PHN) POA 100% (FDA approved February 2018); Elyxyb (migraine) POA 100% (FDA approved May 2020); Gloperba (gout) POA 100% (FDA approved February 2019); SP-102 (Sciatica) POA 80% (positive Phase 3 data reported); SP-103 and SP-104 are not modeled in our financial forecasts.

Source: Scilex Holding Company.

Catalyst Calendar

| Agent | Indication | Potential Events | Timing | Impact on Stock |
|----------|------------------|---------------------------|-------------|-----------------|
| Gloperba | Gout prophylaxis | U.S. launch | Late 2023 | High |
| SP-102 | Sciatica | Pre-NDA meeting | Late 2023 | Low |
| | | SP-102 U.S. launch | 2024 | High |
| SP-103 | Low back pain | Final Phase 2 data | Late 2023 | Medium |
| SP-104 | Fibromyalgia | Phase 2 initiation | Late 2023 | Low |

Our assumptions: ZTlido (PHN) POA 100%; Elyxyb (migraine) POA 100%; Gloperba (gout) POA 100%; SP-102 (Sciatica) POA 80%; SP-102 and SP-103 are not modeled in our financial forecasts.

Source: H.C. Wainwright & Co. estimates; Scilex Holding Company.

Our Assumptions

| Base Case Scenario | | |
|--------------------------------|---|--|
| Gloperba | Gout prophylaxis | Gloperba launched in the U.S. in late 2023 |
| SP-102 | Sciatica | SP-102 launched in the U.S. In 2024 |
| Upside Scenario | | |
| SP-103 | Low back pain | SP-103 demonstrates proof-of-concept (POC) clinical efficacy in Phase 2 study; potential U.S. launch in 2027 |
| SP-104 | Fibromyalgia | SP-104 demonstrates POC clinical efficacy in Phase 2 study; potential U.S. launch in 2026 |
| Downside Scenario | | |
| ZTlido | Post-herpetic neuralgia (PHN) | Slower-than-anticipated expansion of sales due to market access issues or competitive pressures |
| Elyxyb | Migraine | Failure to achieve market traction due to saturation of target indication with newer, more disruptive drugs |
| Gloperba | Gout prophylaxis | Slower-than-anticipated sales of Gloperba due to perceived lack of differentiation vs. older colchicine formulations |
| SP-102 | Sciatica | FDA may require the company to conduct a second confirmatory Phase 3 study prior to granting approval |
| Growth Drivers of Stock | | |
| Near-Term Drivers | Market penetration of ZTlido, Elyxyb and Gloperba; FDA approval of SP-102; clinical success with SP-103 and SP-104 | |
| Long-Term Drivers | Portfolio expansion into additional indications; Global partnerships with established companies; commercial launch of additional candidates | |

Note: Our assumptions: ZTlido (PHN) POA 100%; Elyxyb (migraine) POA 100%; Gloperba (gout) POA 100%; SP-102 (Sciatica) POA 80%; SP-102 and SP-103 are not modeled in our financial forecasts.

Source: H.C. Wainwright & Co. estimates; Scilex Holding Company.

Proven Leadership With Track Records of Success

Jaisim Shah

President & Chief Executive Officer

- Seasoned industry leader with 30 years of experience in drug development and commercialization
- Previously, Mr. Shah served as CEO of Semnur Pharma (acquired by Scilex)
- Mr. Shah holds an M.A. in economics from the University of Akron and a M.B.A. from the University of Oklahoma

Stephen Ma

Chief Financial Officer

- Previously served as Scilex's Chief Accounting Officer starting in November 2022 and as Vice President of Finance from January to November 2022
- Previously served as Director of Finance and Operations for Anwita Biosciences, a privately-held clinical-stage company
- Mr. Ma holds a B.S. degree in finance and an M.A. in economics from San Jose State University

Dmitri Lissin, M.D.

Chief Medical Officer

- Dr. Lissin serves as Chief Medical Officer and SVP Clinical of Scilex/Semnur Pharma (2015 – present)
- He received his post-doctoral training from the University of California at San Francisco, and his medical degree through an exchange program between Russian National Medical University and Harvard Medical School

Suresh Khemani

Chief Commercial Officer

- Mr. Khemani has been Senior Vice President and Chief Commercial Officer of Scilex since March 2019
- His therapeutic expertise include pain, neurology, oncology, immunology, and cardiovascular disease
- Mr. Khemani holds a bachelor's degree in pharmacy from Bombay University

Henry Ji, Ph.D.

Executive Chairman

- Dr. Ji has over 25 years of experience in the biotech and life sciences sectors
- Previously, he served as the CEO of Scilex (2016 to 2019) and continues to serve as CEO and President of the entity from which Scilex was spun out
- Dr. Ji received a doctoral degree from the University of Minnesota

Suketu D. Desai, Ph.D.

Chief Technical Officer, SVP

- Dr. Desai has over 25 years of experience in pharmaceuticals, including positions at Allergan (acquired by AbbVie), Cephalon (acquired by Teva) and Ception Therapeutics
- He received a Ph.D. in Pharmaceutical Sciences (University of Arizona), along with a master's degree in pharmacology and bachelor's degree in pharmacy from the University of Mumbai

We believe that Scilex's management team and board of directors collectively possesses an extensive and successful track record in drug discovery, clinical development, marketing and generation of sustained revenue growth across multiple therapeutic areas and products. In our view, the team has the pertinent scientific and financial expertise to advance the company's commercial products and clinical programs.

Source: Scilex Holding Company.

II. Investment Thesis

1. A Vertically Integrated, Non-Opioid Pain Management Powerhouse

| Agent | Indication | API | Route | Stage | Future Market Opportunity | Comments |
|----------|---------------------|------------------|--------------------|----------------|---------------------------|---|
| ZTlido | PHN | Lidocaine (1.8%) | Skin patch | Commercialized | \$1.9B+ (WW) | Non-aqueous technology that delivers more active agent than competitor products; potential to commercialize globally (except in Japan); opportunity to capture significant market when combined with gabapentinoids |
| Elyxyb | Migraine | Celecoxib | Oral liquid | Commercialized | \$1.8B+ (WW) | 39 million U.S. migraine patients; re-launched in 1H23; first oral celecoxib solution with fast onset and low GI side effects |
| Gloperba | Gout | Colchicine | Oral liquid | Commercialized | \$8B+ (WW) | 8 million U.S. gout patients; First and only liquid colchicine formulation; possible dose adjustment in comorbid patients |
| SP-102 | Sciatica | Dexamethasone | Epidural injection | Pre-NDA | \$18B+ (WW) | Over 10 million ESI procedures annually in the U.S.; Phase 3 data showed pain reduction with durability lasting for over three months; pre-NDA meeting anticipated in the coming weeks |
| SP-103 | Acute low back pain | Lidocaine (5.4%) | Skin patch | Phase 2 | \$10B+ (WW) | Delivery of 3x lidocaine load vs. ZTlido; Phase 2 started in 2022; Fast Track designation granted by the FDA |
| SP-104 | Fibromyalgia | Naltrexone | Oral | Phase 2-ready | \$3B (WW) | Low-dose naltrexone showed efficacy in multiple independent investigator-initiated trials; Phase 2 study slated to start in 2023 |

Scilex is an emerging commercial-stage company developing non-opioid solutions to address unmet medical needs in multiple pain disorders. The company's value proposition is based on its ability to identify below-the-radar firms with novel reformulations of well-known, off-patent products with substantial market potential. Scilex holds exclusive rights to three commercial products (with two of these already launched in the U.S. and other markets).



The near-term narrative for Scilex is likely to be dictated by continued market adoption of ZTlido in PHN and potential off-label use (e.g., neuropathic pain), with supporting contributions from market penetration of Elyxyb and Gloperba. In addition, while we acknowledge the spillover effects of various financial and equities markets turbulence, we think such headwinds are already priced into Scilex's share price. Thus, we believe that the current Scilex share price constitutes an attractive entry point for investors.

Source: Scilex Holding Company.

With Multiple Partnership Agreements in Place, Scilex Is Positioning Itself as a Formidable Competitor in the Burgeoning Non-Opioids Pain Market

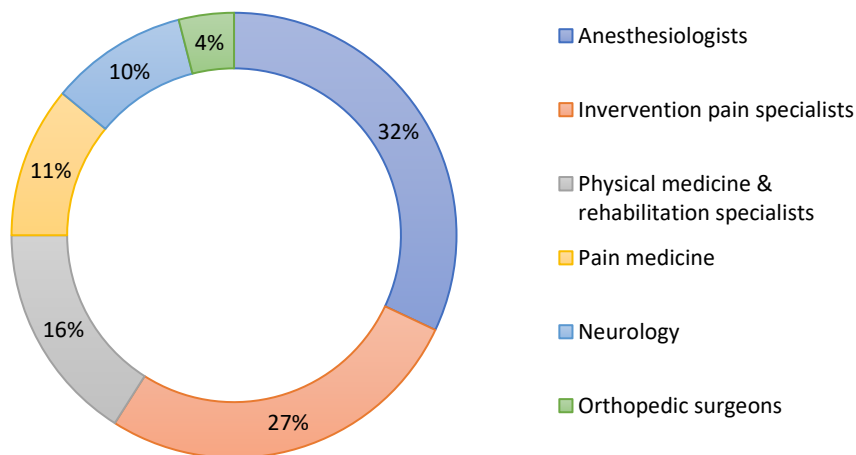
| Agent | Indication | Originator/Developer | Comments |
|----------|---------------------|--|---|
| ZTlido | PHN | Oishi Koseido Co., Ltd. (Oishi) and Itochu Chemical Frontier Corporation (Itochu) | Scilex holds exclusive worldwide rights, except Japan; quarterly royalty between 25% and 35% to the original developers |
| Elyxyb | Migraine | Dr. Reddy's Laboratories; BioDelivery Sciences International, Inc. (BDSI) and Collegium Pharmaceutical | Royalty (estimated at 12% flat rate) on net sales for all indications and additional amounts if certain sales milestones are achieved |
| Gloperba | Gout | RxOmeg Therapeutics LLC (Romeg Therapeutics) | Up-front payment of \$2 million, certain sales-based milestone payments in the aggregate amount of up to \$13 million and royalties on net sales at a rate not exceeding 10% |
| SP-102 | Sciatica | Semnur | Sodium hyaluronate used as an excipient in SP-102 is obtained from Genzyme (Sanofi); sales-based milestone payments totaling up to \$240 million payable to Semnur legacy shareholders; Mahendra Shah is entitled to a low single-digit royalty (we assume 2%) on net sales |
| SP-103 | Acute low back pain | Oishi Koseido Co., Ltd. (Oishi) and Itochu Chemical Frontier Corporation (Itochu) | Scilex holds exclusive WW rights, except Japan; quarterly royalty between 25% and 35% to the original developers |
| SP-104 | Fibromyalgia | Aardvark Therapeutics | \$3 million owed to Aardvark at FDA approval; \$20 million upon attainment of certain net sales thresholds; single-digit royalty on net sales |

We believe Scilex is carving its niche in the non-opioid pain management drug class, moving into a pain market space that is shifting away from opioids due to the well-documented risks of addiction, abuse and diversion. From our vantage point, Scilex's disciplined execution to acquire underrated assets with high market potential bodes well for the company's long-term intent to become a powerhouse in pain management.

Source: Scilex Holding Company.

Driving Revenue Growth With a Disciplined Sales Force Executing on Synergies

**Target Physicians Treating Neuropathic and Chronic Pain
(~15K to 20K U.S. Physicians)**



Scilex invests heavily in sales & marketing to accelerate revenue growth. Per management, the current sales force is comprised of ~70 pain specialists targeting over 10,000 primary care physicians, pain specialists, neurologists and palliative care physicians who treat the majority of pain indications. Given the synergies between pain indications targeted by the company’s products, we expect considerable efficiency across Scilex’s commercial infrastructure and momentum that should enable even more new products to be launched in future with minimal additional investment.

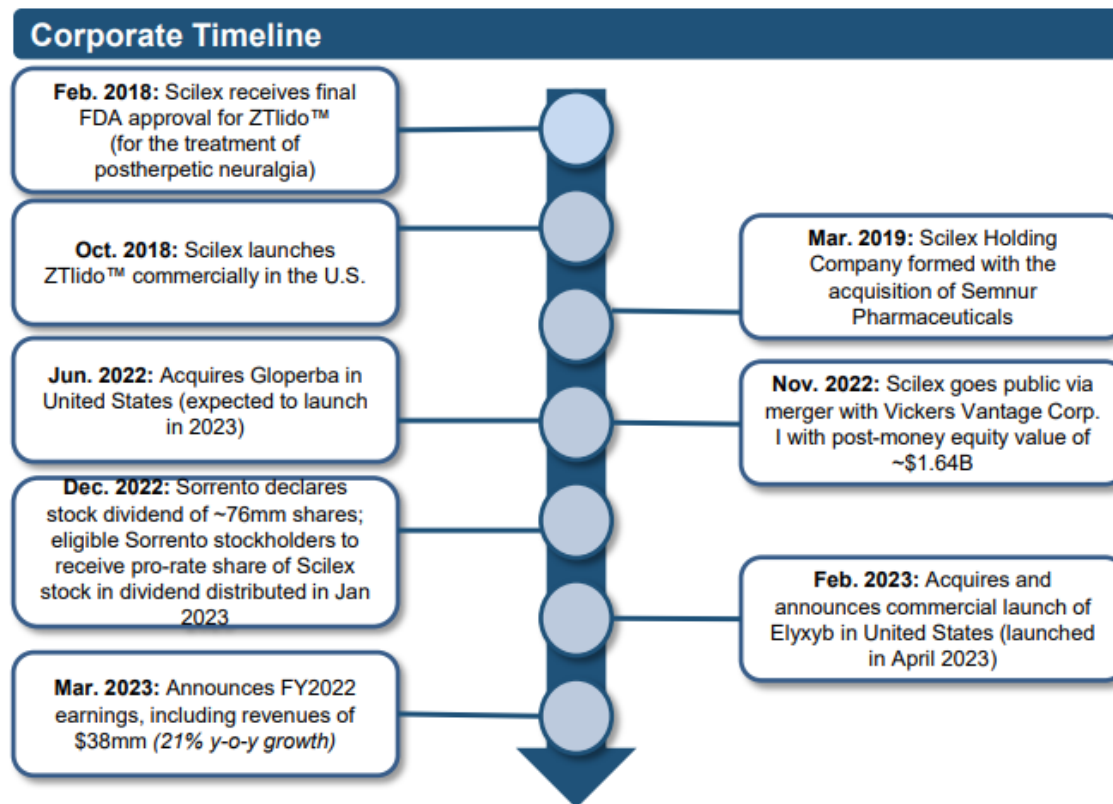


In our view, Scilex’s workforce constitutes a critical component to successful deployment of products in global markets. While we acknowledge headwinds from established and smaller competitors, the uniqueness of the products, substantial unmet needs and lengthy intellectual property (IP) lifespans should bode well for the long-term commercial outlook, in our view. We consider Scilex’s commercial operations to be well-positioned because of the diversity already apparent in the company’s marketed product portfolio.

From our perspective, Scilex’s commercial footprint in the U.S. has been strengthened significantly by acquiring three commercial products—including ZTlido, currently the primary revenue driver. With the impetus from a galvanized sales force that is further bolstered by direct-to-patient marketing strategies and the general industry shift towards non-opioid drugs, we expect steady improvement in sales performance over the course of 2023 and beyond. The recent launch of Elyxyb and the upcoming market introduction of Gloperba should act as accelerants, in our view.

Source: Scilex Holding Company.

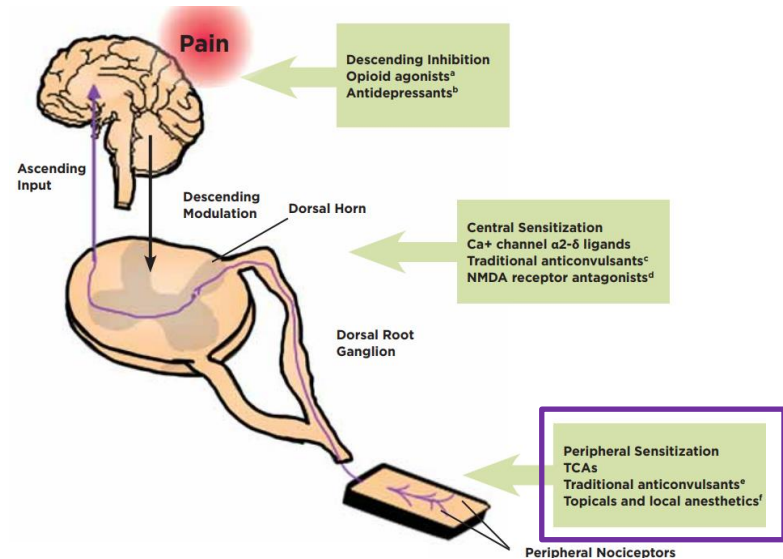
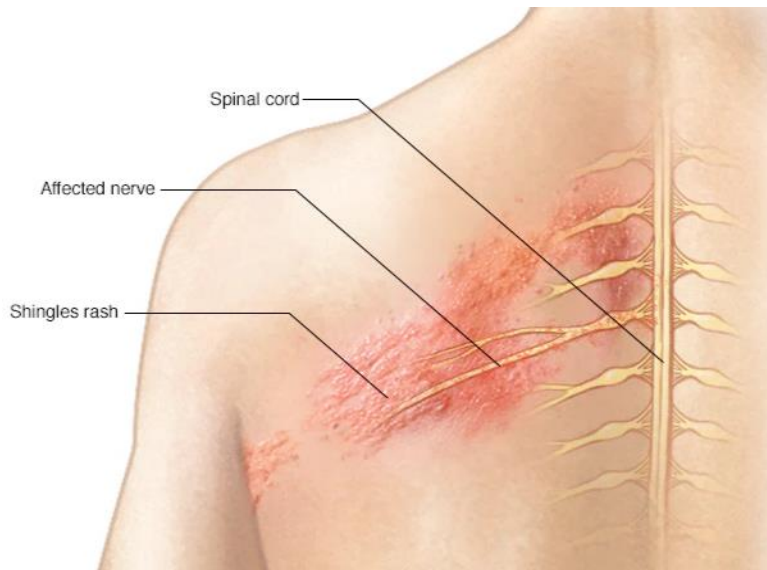
Disciplined Execution on Multiple Fronts Positions Scilex to Create Transformational Impact on Patients' Lives



By harnessing the power of non-opioids, Scilex attempts to break new ground in managing and treating pain indications. Notably, the team's industry acumen and proactive approach to business development could steadily grow the pipeline in the coming years by acquiring strategic assets with well-understood biology and the ability to address areas of unmet need, in our view. Importantly, Scilex's risk-mitigated product offerings, differentiated drug development approach and attractive valuation at current levels may make it an attractive future acquisition target.

Source: Scilex Holding Company.

2. ZTlido: A Next-Generation Anhydrous Lidocaine Patch for PHN Treatment and More

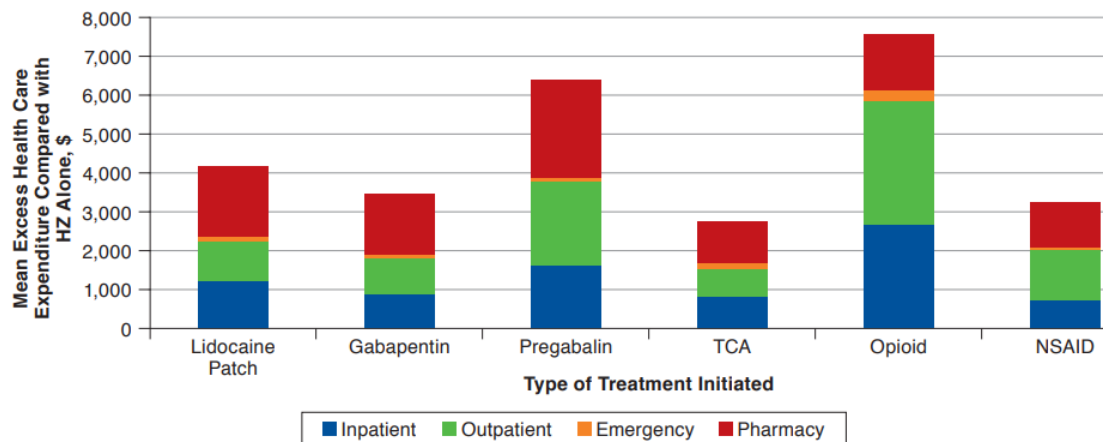
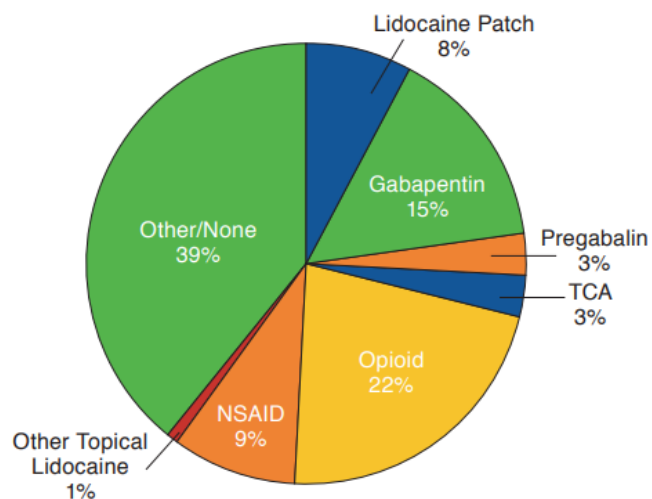


Post-herpetic neuralgia (PHN) is a chronic neuropathic pain syndrome occurring in the areas of the herpes zoster (HZ) rash (~9 to 14% of HZ patients develop PHN). The central and peripheral nervous system components (nerve fibers and skin) are affected, with symptoms (localized neuropathic pain of burning, shooting or stabbing nature, exaggeration of pain response and painful sensation for non-painful stimuli) lasting for years, causing several physical and disabilities.

In the front-line (1L) setting, oral tricyclic antidepressant (TCA) drugs, the gabapentinoid agent pregabalin, and the lidocaine 5% patch are routinely preferred. However, advanced presentations necessitate either combination regimens or treatment with opioids. Unfortunately, there is no cure for PHN, though palliative options reduce pain duration and severity. Accordingly, new agents are urgently needed to manage disease symptoms. The preference among medical practitioners is clearly for non-opioid solutions, but these are often not potent enough.

Source: Mayo Clinic; Gharibo & Kim, Pain Medicine News (2011).

Multiple Agents are Deployed to Treat, Though Caveats Remain



A study analyzing medical and pharmacy claims from 2010 to 2014 (n=232M, with the majority of patients aged <65 years) suggested that over 8% of PHN treatment involves lidocaine patches (see figure on the left). In terms of expenditure, patients on opioids had higher expenses (\$7,601; p<0.05) vs. pregabalin (\$6,428; p<0.05), lidocaine patches (\$4,213; p<0.05), gabapentin (\$3,478; p<0.05), NSAIDs (\$3,304; p<0.05), and TCAs (\$2,797; p<0.05). Scilex management indicated that the current lidocaine patch market size is about 15% to 18% of the PHN market (for context, ~147 million lidocaine patches were sold in the U.S. in 2021).

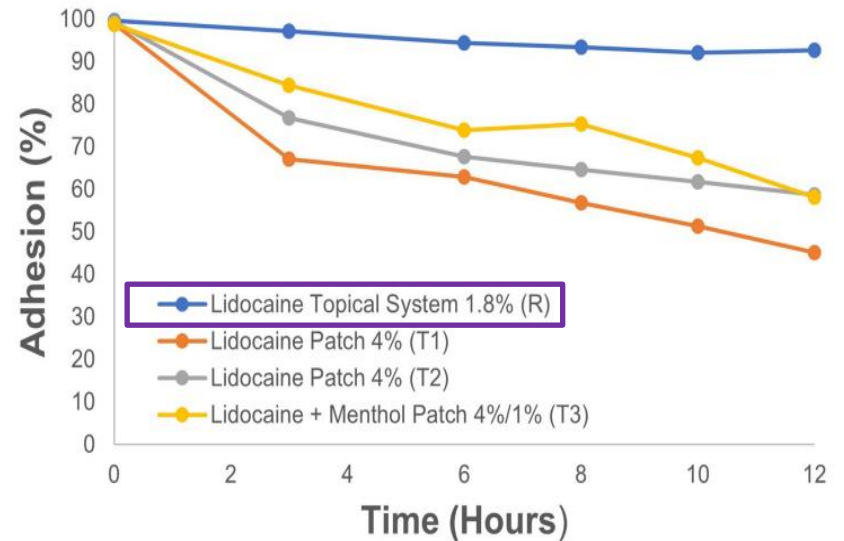
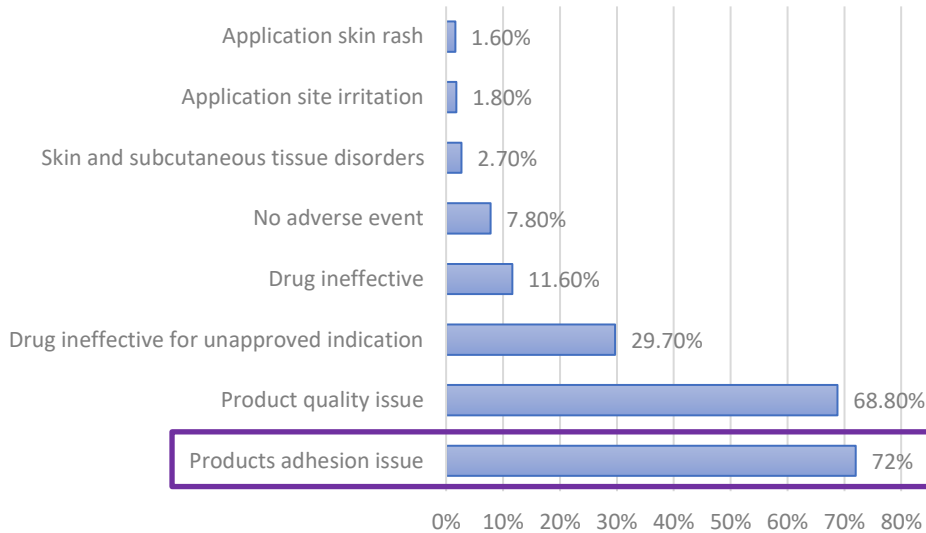


In the 1L setting, topical lidocaine patches (sodium channel blocker) are increasingly preferred for their local effects, minimal systemic exposure and fewer drug-drug interactions. However, the key sticking point continues to be low adhesion, requiring high drug loading. For example, the bioavailability of Lidoderm (700mg lidocaine) – the original branded product market leader in the lidocaine patch segment – is about 3% (high drug loading could inadvertently result in a sub-optimal benefit-risk profile). This underscores the need for novel reformulations with superior bioavailability and improved adhesion properties. Such requirements provide favorable positioning for ZTlido—an FDA-approved lidocaine topical agent (36mg drug load; 45% bioavailability) delivered in a patch that does not absorb water.

Source: *Gudin et al., Journal of Managed Care and Specialty Pharmacy (2019).*

ZTlido Addresses the Achilles' Heel of Traditional Lidocaine Patches—Poor Adhesion

% of Respondents Reporting Lidocaine Patch Concerns (n=3,861)



Superior adhesion is a key metric that determines topical lidocaine efficacy and potential market adoption. Among several concerns cited in the FDA Adverse Event Reporting System (FAERS), over 68% of users reported product adhesion issues. Given the fact that competing products are overloaded with APIs (~700mg lidocaine per patch) to compensate for poor bioavailability (~3%), their thickness must be increased, which inadvertently compromises the product's pliability, resulting in poor adhesion.



Scilex's ZTlido employs an anhydrous, single-layer, drug-in-adhesive topical delivery system that is lighter, thinner and patient-friendly (flexible to the body's contours). When tested in an open-label study involving healthy volunteers, ZTlido demonstrated superior adhesion for over 12 hours vs. three active comparators (lidocaine-containing over-the-counter or OTC products), suggesting differentiation. Notably, mean adhesion was >90% during various activities (see figure on the right), indicating no significant loss in product performance.

Source: Fudin et al., *Journal of Pain Research* (2022); Vought et al., *Journal of Pain Research* (2021); Scilex Holding Company.

ZTlido's Superior Adhesion and Greater Bioavailability Outperform Competitor's Products, Which Could Translate Into Greater Market Adoption, in Our View

| Attribute | ZTlido (Scilex) | Lidoderm (Endo) | Lidocaine Patch (Teva) | Lidocaine Patch (Viartis) |
|--|--|---|---|---|
| Technology | Single-layer DIA non-aqueous multi-polymer matrix | Single-layer aqueous base (hydrogel) | Unique adhesion technology | Single-layer DIA non-aqueous multi-polymer matrix |
| Adhesion (after 12h) | >90% adhesion | <65% adhesion | Not studied | <30% adhesion |
| Label advantage | Can be used after heat exposure, during exercise and showering | Label states that getting the patch wet should be avoided as it may not stick | Label states that getting the patch wet should be avoided as it may not stick | Label states that getting the patch wet should be avoided as it may not stick |
| Drug load | 36mg/patch; 1.8% strength | 700mg/patch; 5% strength | 700mg/patch; 5% strength | 140mg/patch; 5% strength |
| Bioavailability | ~48% (in-house studies) | 3±2% | 3±2% | 11±4% |
| Residual drug after use | 16 to 17mg | 665mg | 665mg | 115mg (at least) |
| Perforated release liner for ease of removal | Yes | No | No | No |

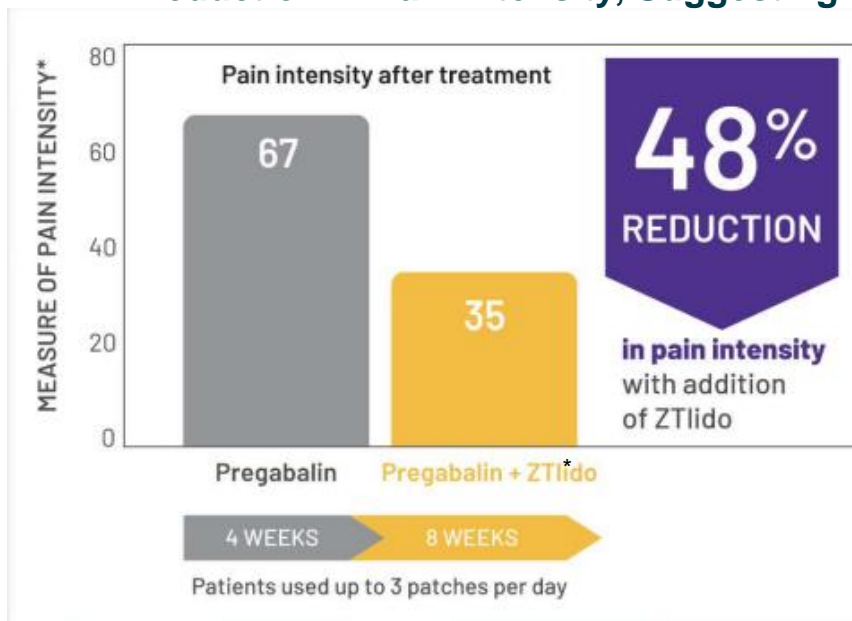
While lidocaine patches have unique advantages (superior compliance, low systemic exposure and fewer drug-drug interactions, to name a few), the bottleneck continues to be the patch's poor adhesion. In addition, the use of hydrogel technology limits bioavailability, necessitating the need for a higher drug loading in traditional 5% lidocaine patches.



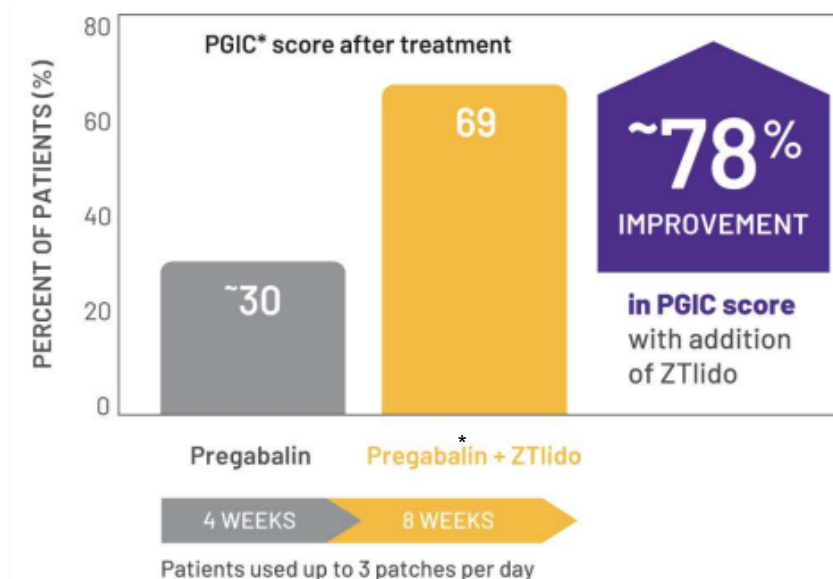
In contrast, ZTlido's thin patch design showed superior adhesion performance (>90% adhesion at 12 hours after application) that fits the body's natural contours (even during exercise and showering). Notably, the proprietary non-aqueous technology facilitates less drug loading (36mg vs. 700mg in Lidoderm), superior bioavailability and less residual drug. In addition, per the label, users may apply ZTlido to a treatment site after moderate heat exposure, highlighting its value in heat therapy. The smaller amounts of lidocaine required also reduces the cost of goods.

Source: H.C. Wainwright & Co. equity research; company reports.

Combining Traditional Lidocaine Patches (5% Strength) With Pregabalin Resulted in Significant Reduction in Pain Intensity, Suggesting Opportunities for ZTlido Indication Expansion



Studies show that pregabalin as a monotherapy does not elicit adequate pain relief. However, adding a competitor's lidocaine patch (5%) to the treatment region decreased pain intensity by 48%. We believe such findings could encourage physicians to use ZTlido in off-label settings.



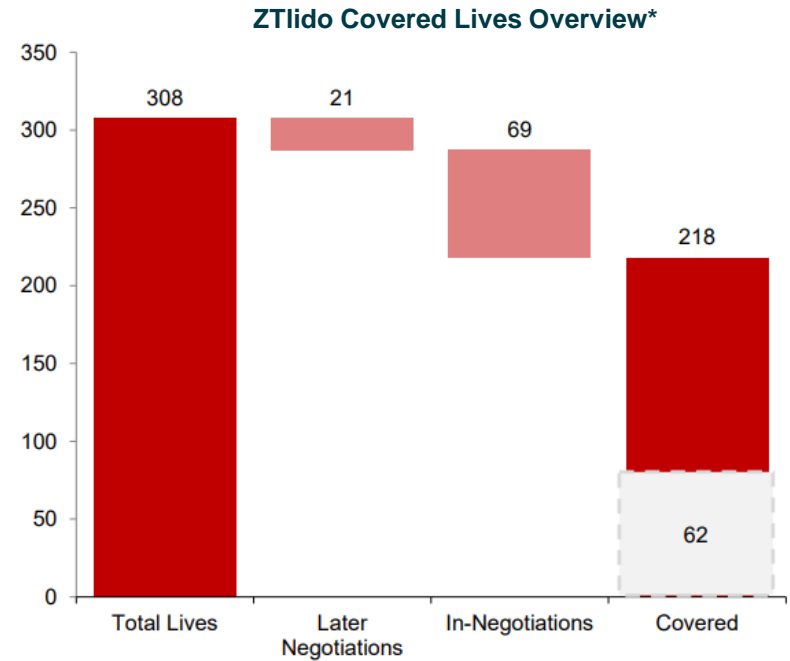
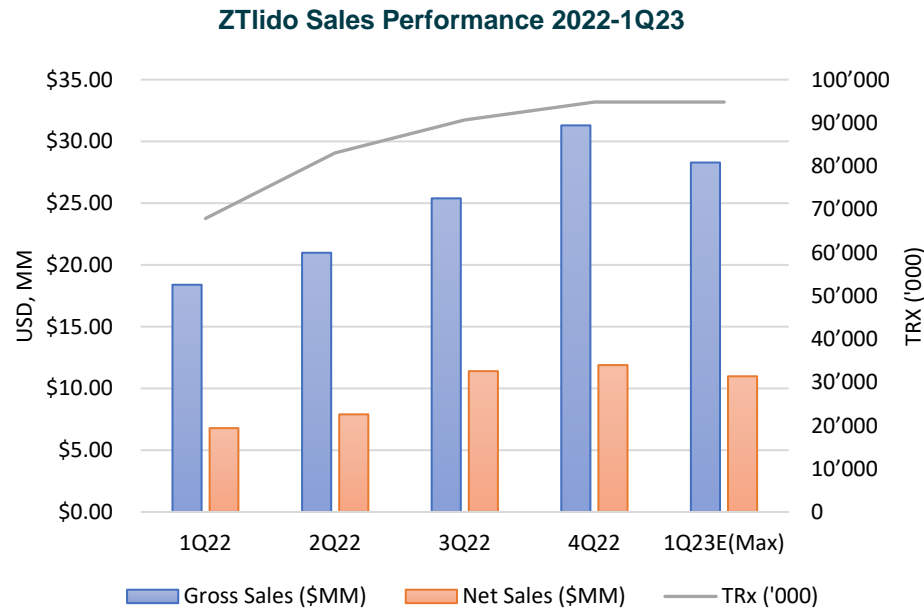
In the same study, a 78% improvement in self-reported Patient Global Impression of Change (PGIC) was observed, suggesting improved QoL.¹ Such attributes could be reciprocated with ZTlido, in our view.

The efficacy of traditional lidocaine patches (5% strength) in combination studies involving gabapentinoids could spur ZTlido off-label use (potential indications: neuropathic pain, diabetic pain and neuropathy back pain). Notably, adding ZTlido could subdue the adverse side effect profile of gabapentinoids as the dosage will be significantly reduced, in our view.

Note: * ZTlido denotes ZTlido equivalent, which is a traditional lidocaine (5%) patch; ¹ Study design: Phase 3, two-stage adaptive, randomized, open-label study (N=98) in patients with PHN; chart shows patients treated with pregabalin alone, then in combination with a ZTlido equivalent.

Source: Scilex Holding Company.

ZTlido Continues to Gain Traction in the U.S Market, as Evidenced by Steady Increases in Sales, TRx Volume and Payor Coverage

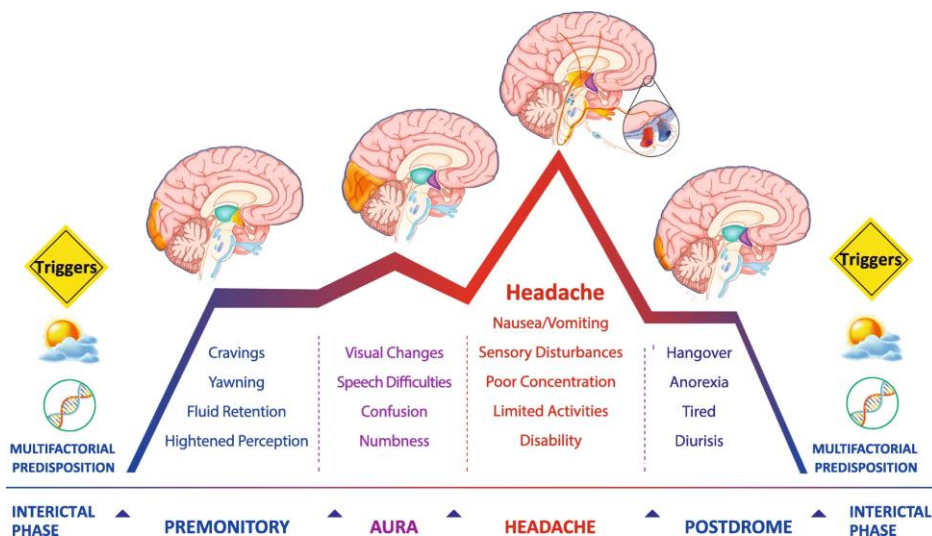


Note: CVS, MediCal, Express Scripts, Optum and United Healthcare all prefer ZTlido.

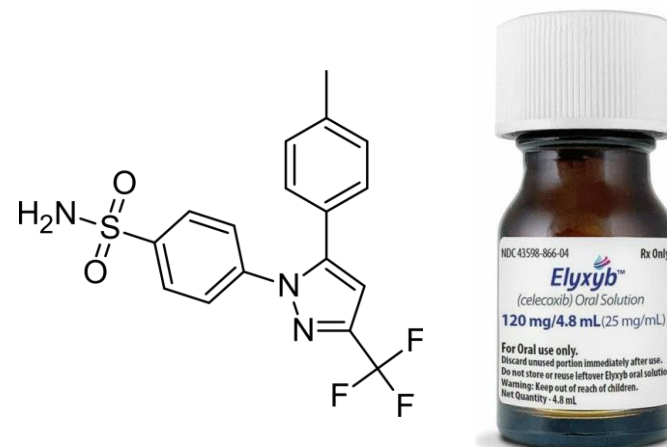
Source: Scilex Holding Company.

3. Elyxyb: A First-of-its-Kind Celecoxib Liquid Formulation With a Fast Onset of Action for Effective Migraine Treatment

The Cyclical Nature of Migraine Attack



Elyxyb Indicated for Migraine (With or Without Aura)

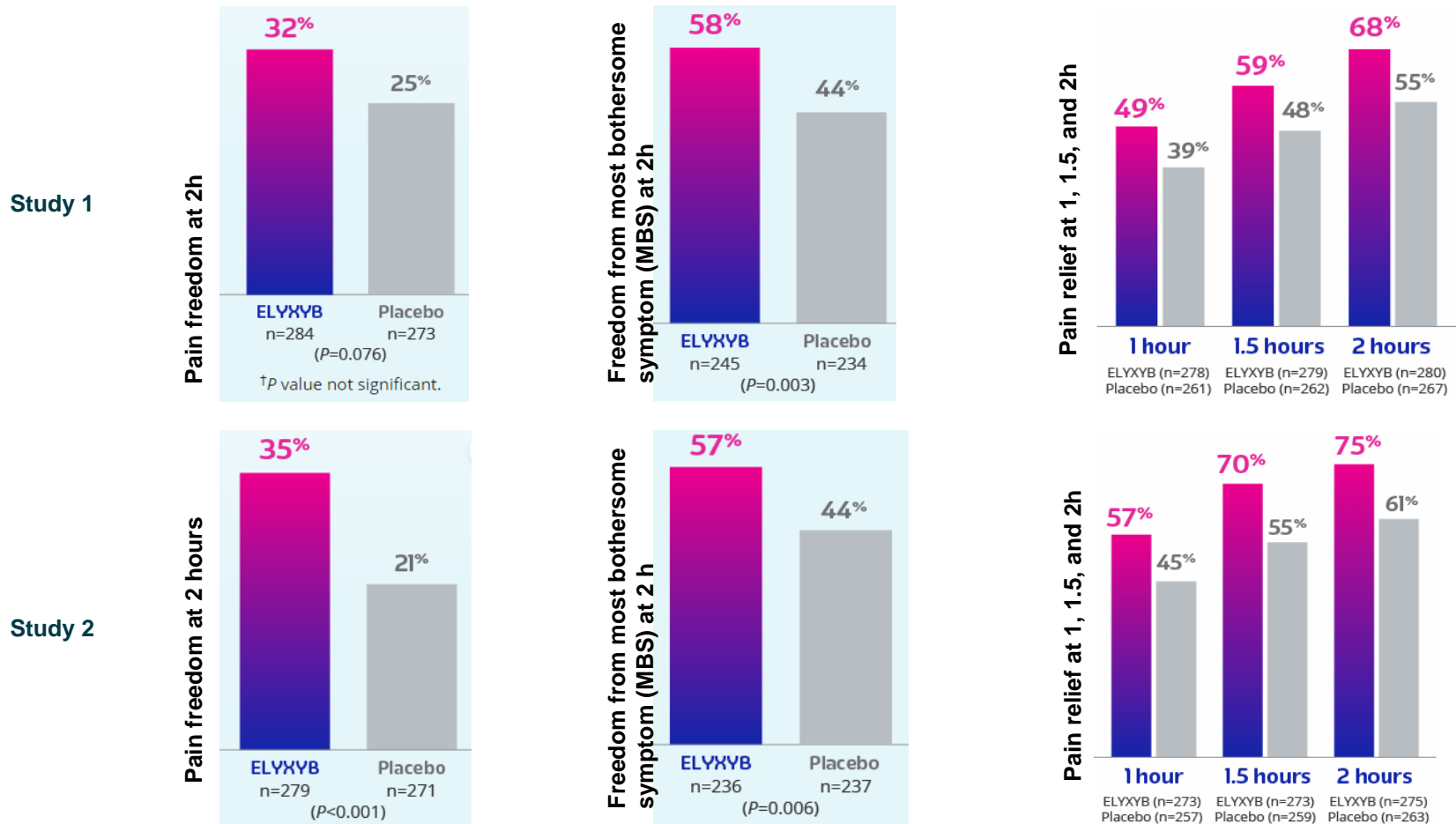


Migraine is the second-most common neurological disorder characterized by unilateral throbbing headache, photophobia, nausea and vomiting. In particular, one-third of migraine patients experience aura (a series of sensory and language disturbances) and over three-quarters of patients experience a premonitory phase before the onset of headache. Given migraine's complex etiology affecting brain pathways, multi-pronged approaches are required to meaningfully improve patient response rates and the overall patient experience.

Celecoxib is an oral, selective cyclooxygenase-2 (COX-2) inhibitor indicated for treating migraine, among others. Notwithstanding its favorable GI profile (fewer gastric erosion/ulcer vs. other NSAIDs), celecoxib is less preferred due to its slow onset (C_{max} : 3 hours; partly due to low solubility). Scilex's Elyxyb is a novel, oral liquid formulation of celecoxib with improved solubility characteristics and faster onset (C_{max} : ~1 hour in moderate-to-severe migraine patients), with sustained pain relief lasting up to 24 hours after drug administration. Such attributes are unheard of in other celecoxib formulations, in our view.




Source: Andreou & Edvinsson, *The Journal of Headache and Pain* (2019); Scilex Holding Company.

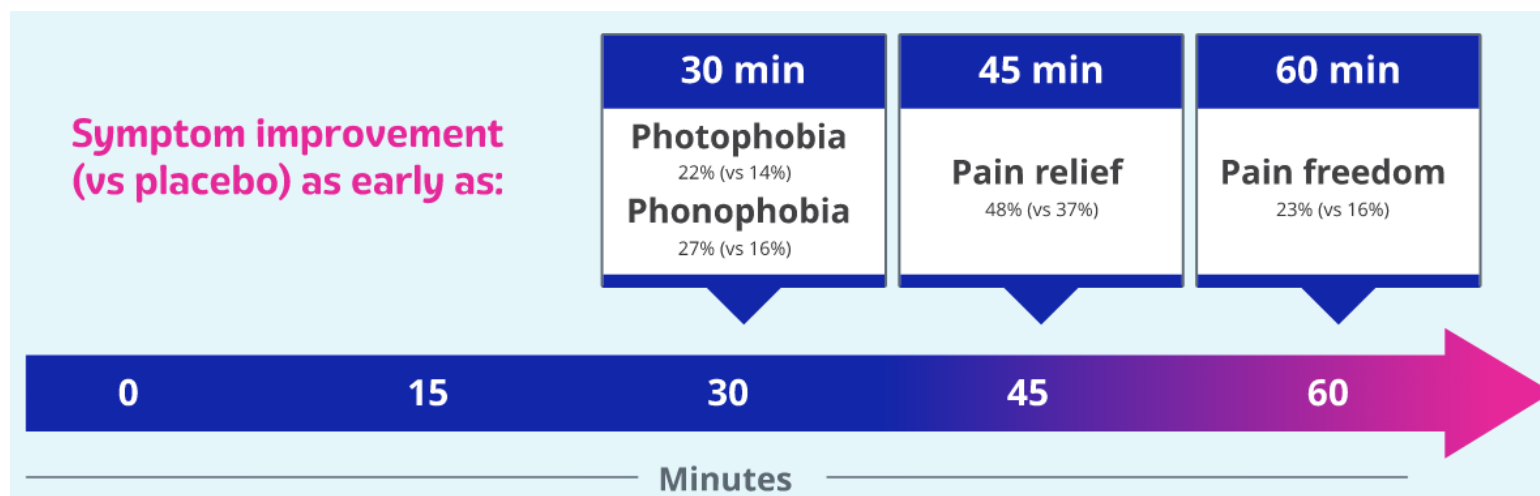
When Tested in Two Phase 3 Studies, Oral Elyxyb Solution Delivered Clinically Meaningfully Migraine Relief Within One Hour, Suggesting Fast Onset and Differentiation



Source: Scilex Holding Company.

In Addition, Elyxyb Demonstrated Improvements in Secondary Endpoints, Suggesting Transformative Benefits and Improved QoL

|  Photophobia freedom |  Phonophobia freedom |  Nausea freedom |
|---|---|--|
| Study 1 57% vs 41% on placebo ⁸ | Study 1 58% vs 46% on placebo ⁸ | Study 1 67% vs 59% on placebo ^{8,10} |
| Study 2 58% vs 44% on placebo ⁹ | Study 2 61% vs 55% on placebo ⁹ | Study 2 68% vs 62% on placebo ⁹ |



Source: Scilex Holding Company.

Migraine Treatment Landscape is Extremely Crowded, Though There is No One Magic Bullet, in Our View

| ● Acute treatment | ● Preventative treatment | ● Managing migraine in special populations |
|---|---|--|
| <p>First-line medication</p> <ul style="list-style-type: none"> • NSAIDs (acetylsalicylic acid, ibuprofen or diclofenac potassium) <p>Second-line medication</p> <ul style="list-style-type: none"> • Triptans • When triptans provide insufficient pain relief, combine with fast-acting NSAIDs <p>Third-line medication</p> <ul style="list-style-type: none"> • Ditans • Gepants <p>Adjunct medications for nausea and/or vomiting</p> <ul style="list-style-type: none"> • Prokinetic antiemetics (domperidone or metoclopramide) | <ul style="list-style-type: none"> • Recommended for patients adversely affected on ≥ 2 days per month despite optimized acute therapy <p>First-line medication</p> <ul style="list-style-type: none"> • Beta blockers (propranolol, metoprolol, atenolol, bisoprolol) • Topiramate • Candesartan <p>Second-line medication</p> <ul style="list-style-type: none"> • Flunarizine • Amitriptyline • Sodium valproate^a <p>Third-line medication</p> <ul style="list-style-type: none"> • CGRP monoclonal antibodies^b | <p>Older people</p> <ul style="list-style-type: none"> • Secondary headache, comorbidities and adverse events are all more likely • Poor evidence base for all drugs in this age group <p>Children and adolescents</p> <ul style="list-style-type: none"> • Be aware that presentation can differ from migraine in adults • Parents and schools have important roles in the management of young children • Bed rest alone can be sufficient • Use ibuprofen for acute treatment and propranolol, amitriptyline or topiramate for prevention <p>Women who are pregnant or breastfeeding</p> <ul style="list-style-type: none"> • Use paracetamol for acute treatment • Avoid preventive treatment if possible <p>Women with menstrual migraine</p> <ul style="list-style-type: none"> • Perimenstrual preventive therapy with long-acting NSAID or triptan |

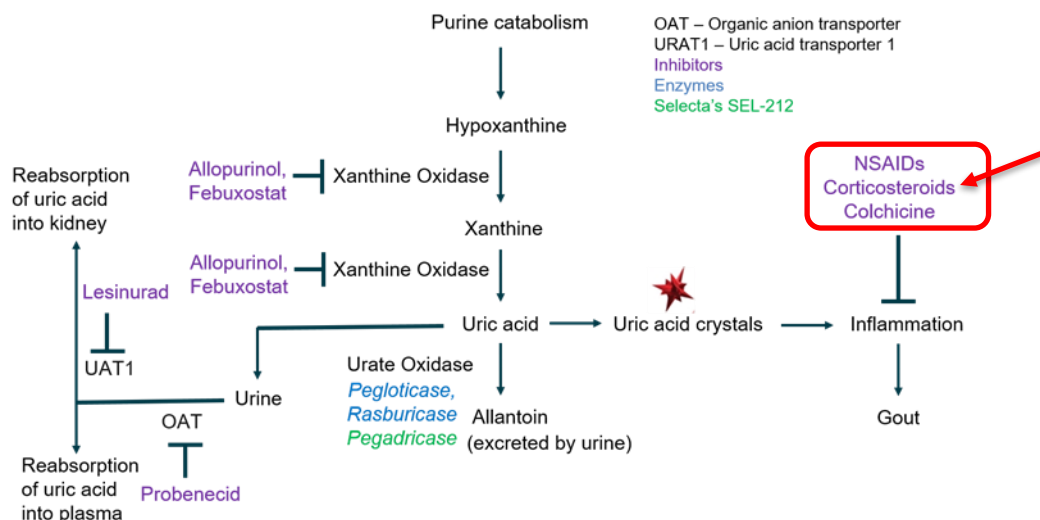
As seen above, the acute migraine market is vast, with multiple competing drugs. For context, there are over 39 million migraine patients in the U.S., of which roughly 60% were diagnosed (23 million individuals).



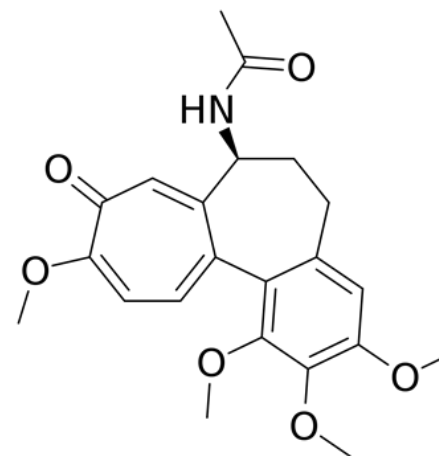
Despite the fact that migraine represents a highly competitive treatment landscape, we believe the migraine market could support multiple agents provided that clinical differentiation is evident. Elyxyb's novel formulation (oral solution), fast onset of action and durability lasting for up to 24 hours could lead to rapid market uptake, in our view.

Source: Eigenbrodt et al., Nature Reviews Neurology (2021).

4. Shifting the Narrative of Gout Flares Prophylaxis With a Novel Colchicine Liquid Formulation



Colchicine: A Well-Established Anti-Gout Drug



Abnormal purine catabolism is believed to trigger the formation of urate crystals—the causative agent for swelling and painful inflammation that could also trigger renal insufficiency. Accordingly, agents that reduce inflammation and pain are urgently needed.

Colchicine blocks neutrophil-mediated inflammatory responses induced by monosodium urate crystals in synovial fluid. However, concerns including GI side effects, a narrow therapeutic index and cumbersome dosage adjustment blocked its broad market adoption.

Gout is a common form of inflammatory arthritis characterized by sudden, painful attacks in one or more joints. Gout is widely believed to occur due to abnormal purine catabolism (see above figure), resulting in the accumulation of uric acid crystals (hyperuricemia). Given gout flares are excruciatingly painful, prophylactic strategies are considered highly beneficial to patients. An estimated 8.7 million U.S. patients are affected by gout, of which over 100,000 patients are considered treatment-refractory.

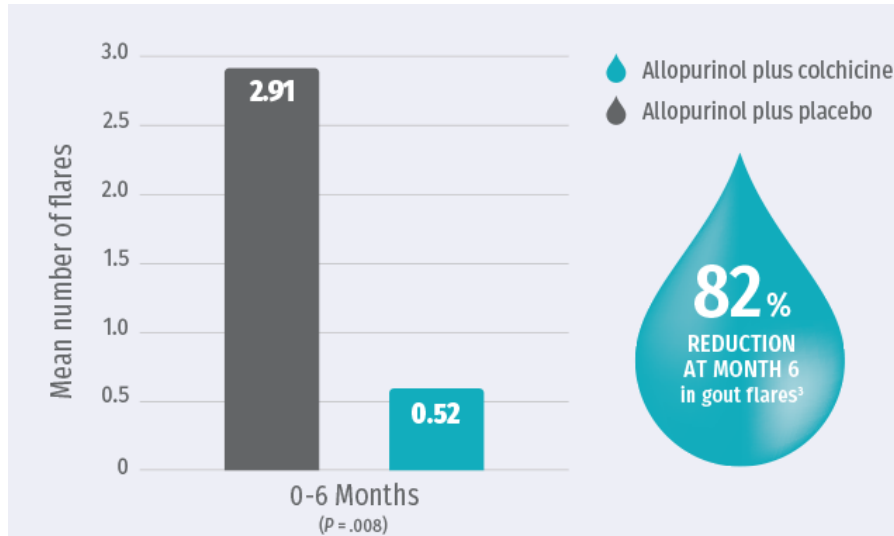


In the 1L setting, oral colchicine (tablet/capsule) prevents gout flares, notwithstanding its caveats (e.g., GI side effects and dose adjustments). Prior attempts to develop an oral liquid dose were unsuccessful due to the photodegradation of colchicine. Scilex's Gloperba (oral colchicine solution initially developed by ROMEg Therapeutics) is designed to address the shortcomings of colchicine and is stable for at least three months in refrigerated, ambient and accelerated temperatures, highlighting differentiation.

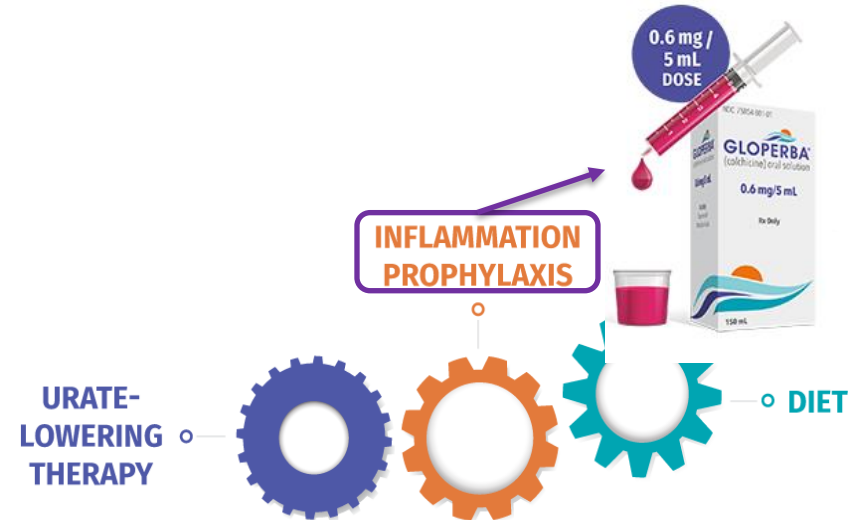
Source: Company reports.

Gloperba Offers Individualized Colchicine Dosing for Gout Prophylaxis Without the Gastrointestinal (GI) Side Effects Observed in Solid Colchicine Formulations

Gloperba Efficacy



Gout Treatment



Multiple clinical studies suggested that prophylaxis during the initiation of urate-lowering therapy (ULT) can significantly reduce the incidence and severity of gout flares. As seen above, combining colchicine with allopurinol (a xanthine oxidase inhibitor first approved by the FDA in 1966 to decrease urate levels) resulted in an 82% reduction in gout flares at month 6 (vs. 0.52 flares observed in ULT alone), suggesting its therapeutic utility.

A key sticking point in oral colchicine treatment is the patient's difficulty swallowing pills. In contrast, Gloperba is an oral liquid colchicine solution that allows adjustable dosing, titration and dosing reduction in comorbid populations with renal or hepatic impairments. Such attributes should improve Gloperba compliance and market adoption, in our view.

Source: Scilex Holding Company.

Gloperba Offers Individualized Colchicine Doses for Gout Patients Who Often Exhibit One or More Comorbid Symptoms



| Colchicine (mg) | GLOPERBA (mL) |
|-----------------|---------------|
| 0.1 mg | 0.83 mL |
| 0.2 mg | 1.67 mL |
| 0.3 mg | 2.5 mL |
| 0.4 mg | 3.33 mL |
| 0.5 mg | 4.17 mL |
| 0.6 mg | 5.0 mL |
| 0.7 mg | 5.83 mL |
| 0.8 mg | 6.67 mL |
| 0.9 mg | 7.5 mL |
| 1.0 mg | 8.33 mL |
| 1.1 mg | 9.17 mL |
| 1.2 mg | 10.0 mL |

Observational studies revealed correlations between gout triggered by serum urate and other diseases (metabolic syndrome, cardiovascular dysfunction and renal insufficiency), although causal relationships remain unclear. In addition, estimates suggest that over 90% of gout patients have one or more comorbidities. This poses significant challenges to physicians who often want to adjust doses to suit patient needs.

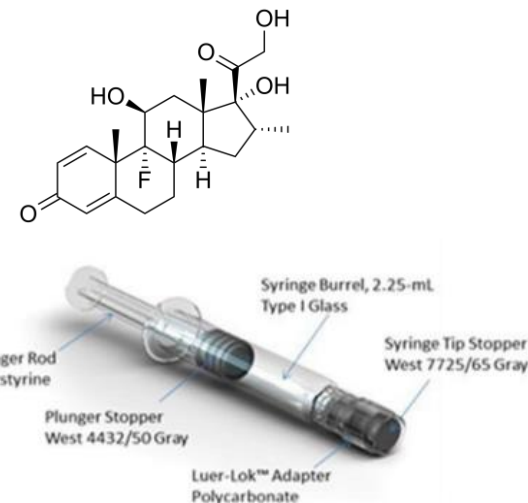
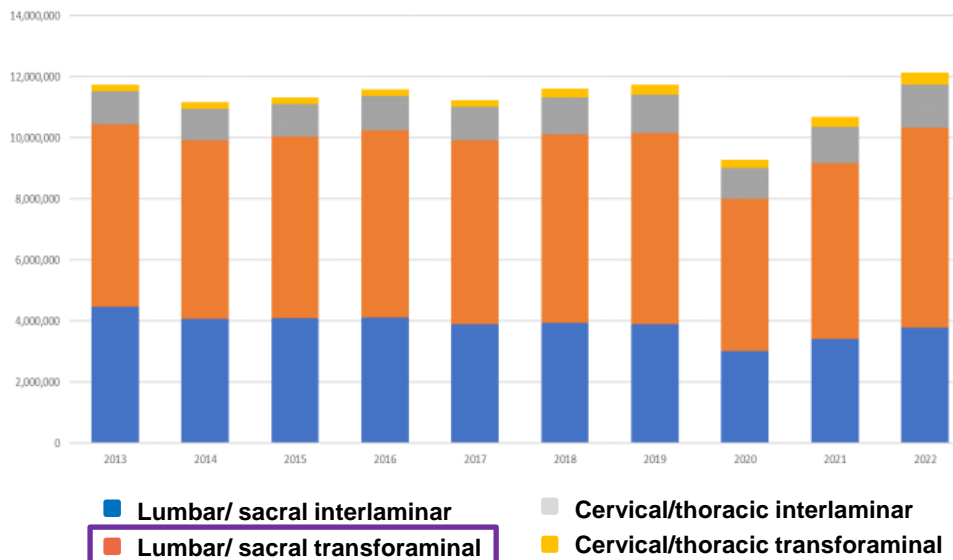


Gloperba is indicated for gout prophylaxis, with a recommended dose of 0.6mg (5mL) once-daily (QD) or twice-daily (BID), with a maximum dose of 1.2mg daily. In addition, Gloperba’s unique oral liquid formulation allows simple and precise titration (see above chart), which could be particularly helpful in aged gout patients who exhibit comorbid symptoms. In our view, the ability to deliver colchicine in an oral solution should drive penetration in gout prophylaxis, although not in acute treatment settings.

Source: Scilex Holding Company.

5. Forging a New Standard-of-Care in Sciatica With SP-102

ESI Injection Volume (Medicare)



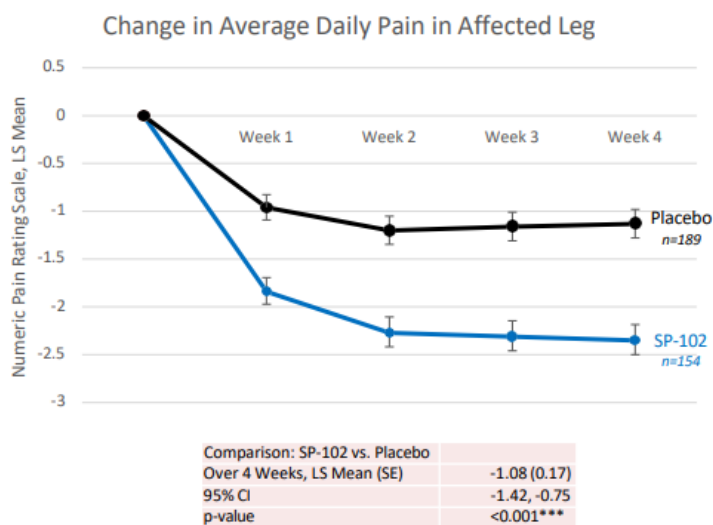
Sciatica (Lumbosacral radicular pain) represents a group of symptoms associated with pain, tingling and numbness in the legs, mainly caused by sciatic nerve injury. Estimated lifetime incidence of sciatica ranges from 10% to 40% in the U.S. (prevalence: ~4.8 million cases). While there is no FDA-approved treatment, epidural steroid injections (ESIs) are commonly used in off-label settings. A key finding from the analysis of 25 placebo-controlled clinical studies suggested that ESIs are efficacious, albeit the effects are small and short-term (days/weeks). In addition, all off-label ESIs carry a warning stating paralysis and/or death. Despite these shortcomings, about 11 million ESIs are delivered annually.



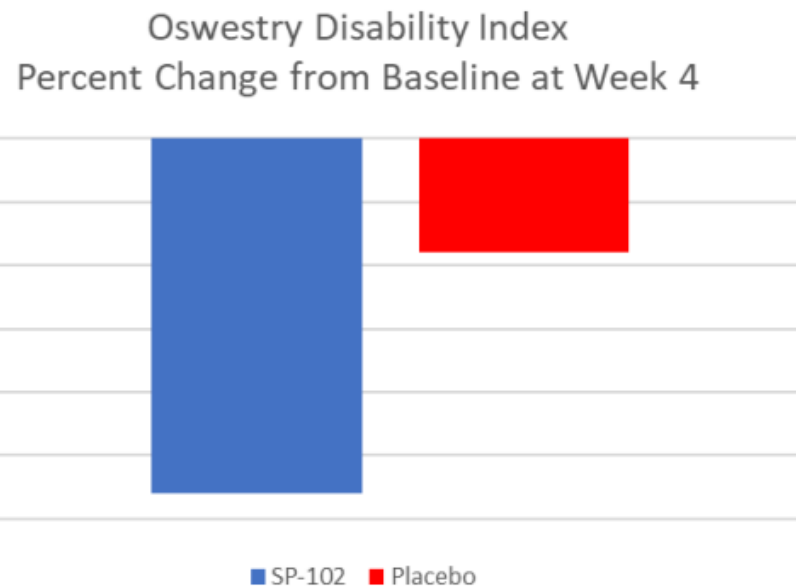
SP-102 (SEMDEXA™)—a novel, viscous gel formulation of widely used dexamethasone—is designed to produce durable pain relief for sciatica in a single injection. Furthermore, since the formulation does not contain any preservatives, surfactants and particulates, SP-102 elicits a benign safety profile (clinical data), suggesting opportunities for rapid market adoption, in our view. Importantly, SP-102 could prevent the need for opioids that are routinely used in advanced sciatica patients despite their questionable clinical impact and well-documented safety risks, in our view.

Source: Scilex Holding Company.

In a Phase 3 Study, SP-102 Demonstrated Clinically Meaningful and Statistically Significant Improvements in Pain Reduction, Suggesting Benefits in Sciatica Patients



The analysis used a restricted maximum likelihood (REML) based mixed model for repeated measures (MMRM) with fixed effects for treatment (SP-102 or placebo), week, site, Pain Catastrophizing Scale group (<30 or ≥30), baseline averaged daily leg pain score, and treatment-by-week interaction.



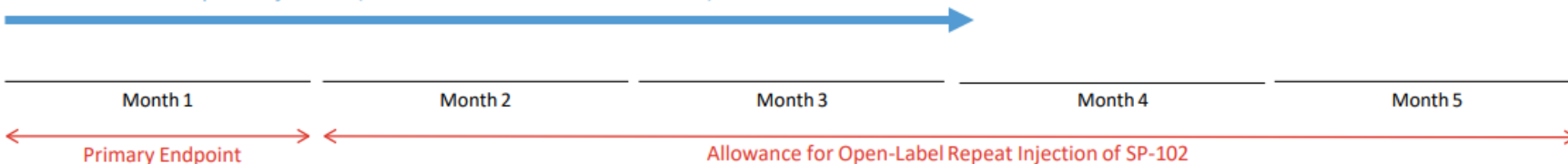
On the heels of positive POC findings, a randomized, double-blind, placebo-controlled Phase 3 study was initiated to evaluate the efficacy-risk profile of SP-102 (n=401 total; 40 U.S. sites). Results suggested that a single transforaminal injection of SP-102 resulted in rapid onset of pain relief (primary endpoint), with a -1.08-point improvement against placebo over the first 4 weeks (p<0.001). Importantly, the effects were durable, unlike standard-of-care (SOC); the median time to repeat injection was 99 days (95% CI: 78, 129 days).

In addition, SP-102 treatment resulted in a 28% improvement in the Oswestry Disability Index (a measure of the degree of disability and QoL improvement; secondary endpoint) vs. placebo (6%; p<0.001). No adverse events of special interest were noted; safety findings were comparable between treatment groups. We believe SP-102 has the characteristics to become the first FDA-approved ESI and could capture the lion's share of the market, given no FDA-approved treatment.

Source: Scilex Holding Company.

SP-102 Represents the High-Water Mark of ESI Durability, With Significant Life Cycle Management Opportunities in Other Indications

SP-102 Time to Repeat Injection (Return of Moderate-Severe Pain)



SP-102 Life Cycle Management Opportunities

| | |
|---|---------------------------------------|
| Carpel tunnel | Hip and knee replacements |
| Trigger point injections | Complex Regional Pain Syndrome (CRPS) |
| Injections for knee, shoulders, wrists, articles and joints | Lumbar spinal stenosis |
| Cervical radiculopathy | Acute spinal injury |
| Knee arthritis | Discogenic pain |

In general, many sciatica patients require four to six ESI procedures, given the limited efficacy profile of off-label agents. From a reimbursement standpoint, payors typically cover only three to four procedures, after which patients will be required to switch to oral therapies or pay out-of-pocket for future ESI procedures. For context, the durability of off-label ESIs ranges from a few days to weeks.



As seen above, results from the Phase 3 CLEAR study suggested that a single SP-102 shot delivered efficacy that lasted for about three months (median durability: ~99 days). We consider the results a high-water mark of ESI durability, which could differentiate SP-102 from competing, oft-risky unapproved agents. Given its once-every-three-months dosing schedule, we believe SP-102 could satisfy payor limits of 3-4 injections per year. SP-102 could also become the first agency-approved ESI, with utility in multiple indications (see table at left), in our view.

Scilex is slated to have a Type D meeting with the FDA in the coming months so as to secure alignment with the agency regarding SP-102's clinical meaningfulness, safety and clarity on acceptance of the Phase 3 CLEAR study as evidence of efficacy to support registration.

6. Multiple Additional Shots on Goal

SP-103—a Triple Strength Version of ZTlido—Could Transform Investors' Thinking About a Traditional Lidocaine Patch and Might Become a Blockbuster Product

| Attribute | Details |
|----------------------|---|
| Study Type | Randomized, double-blind, placebo-controlled, parallel group, multicenter Phase 2 study to evaluate the safety and efficacy of SP-103 in subjects with moderate to severe acute lower back pain (LBP) |
| Study Size | 80 LBP patients at 10 sites across the U.S. |
| Primary Objective | Adverse events and numeric pain rating |
| Secondary Objectives | Oswestry Disability Index (Day 7 and 28) |
| Therapy | Once-daily application of topical SP-103 (5.4%) for 28 days |
| Future Indications | In addition to LBP, SP-103 could be deployed in strains, sprains and other types of mechanical pain, in our view |

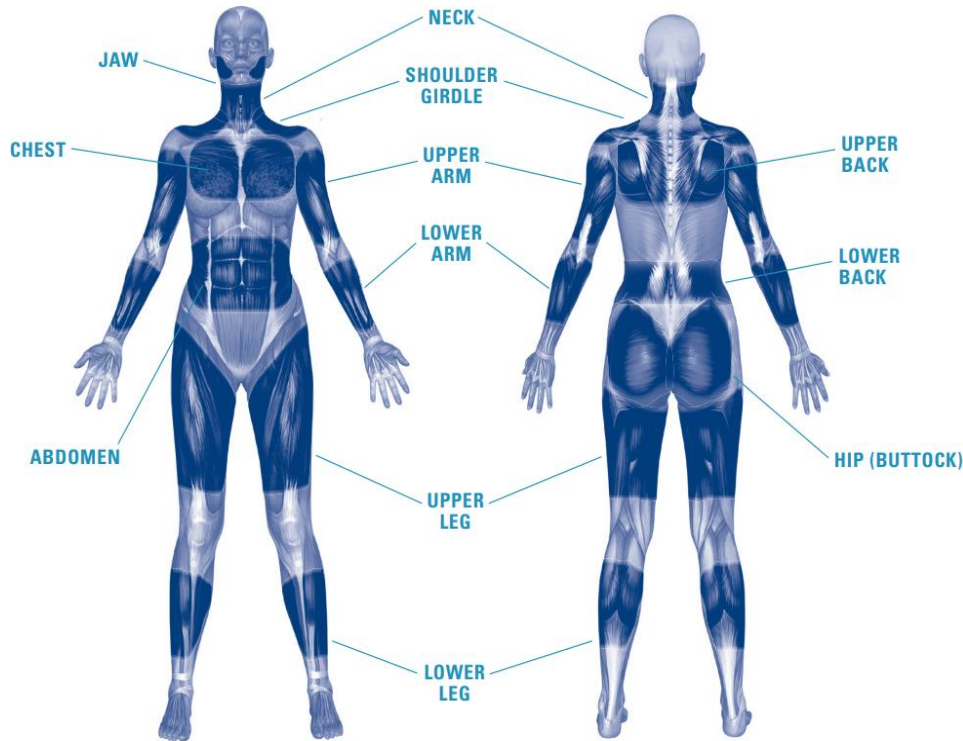
Acute low back pain (LBP) is caused by sudden muscle/ligament injury that supports the back, wherein the pain could last for six to 12 weeks. An estimated 65M U.S. adults suffer from acute LBP. In the 1L setting, patients are often treated with lidocaine patches and/or NSAIDs (either as monotherapy or combined with muscle relaxants, such as cyclobenzaprine), though there is no FDA-approved treatment option. Advanced patients receive opioids, notwithstanding the lack of evidence of benefit and potentially life-threatening side effects. In addition, LBP presents a significant social and economic burden, accounting for 19% of all workers' compensation claims in the U.S., suggesting the need for novel agents.



SP-103—a next-generation patch—delivers three times the drug load of ZTlido (108mg vs. 36mg) in a single topical system. As far as we know, no other topical patches – either approved or in development – deliver this payload level, suggesting differentiation. A Phase 2 study has completed enrollment, with data slated for release in 2H23. We expect the Phase 2 data to show clear evidence of benefit, as SP-103 is built on learnings from FDA-approved ZTlido. However, we acknowledge the often higher-than-expected placebo response in pain indications. Importantly, even a 1% market penetration rate could position SP-103 as a blockbuster (although we only assume peak annual sales for both ZTlido and SP-103 totaling about \$570 million).

Source: Scilex Holding Company.

Fibromyalgia Represents a Major Unmet Medical Need



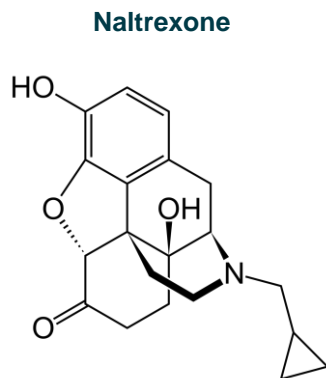
Fibromyalgia affects at least 2% of the adult population in Western countries. Importantly, patients exhibit limited efficacy when treated with SOC, i.e., responders demonstrate a 27% to 40% reduction of symptoms (far below the commonly accepted threshold of 50%).

Fibromyalgia (FM), a musculoskeletal pain disorder, is characterized by fatigue, sleep, memory and mood issues. While its exact cause is unknown, scientists believe an abnormal level of nerve stimulation in the brain and spinal cord accompanied by increased chemicals that mediate pain signaling could trigger the disease progression.

Per CDC, FM affects over 4 million in the U.S., with the majority being women patients. Unfortunately, diagnosing FM is a challenge, given no clinical or laboratory tests. In 2016, The American College of Rheumatology (ACR) provided working definitions for FM diagnosis: a widespread pain index (WPI) score ≥ 7 and symptom severity scale score (SSS) ≥ 7 ; WPI score between 3 and 6 and the SS score ≥ 9 ; generalized pain in at least of 4 of 5 pre-specified regions (left upper, right upper, axial, left lower and right lower regions) with symptoms lasting for at least three months that could not be correlated with other diseases.

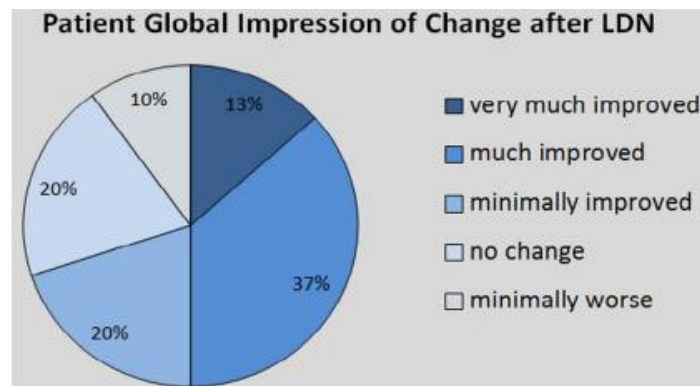
The FDA had originally approved three drugs for fibromyalgia—namely, duloxetine (Cymbalta; Eli Lilly & Co.), pregabalin (Lyrica; Pfizer) and milnacipran (Savella; AbbVie, formerly Cypress Bioscience). However, patient compliance has been poor due to sub-optimal efficacy-risk profiles for all these drugs. In addition, the evidence of opioid use for managing FM symptoms remains uncertain, though it is commonly prescribed for advanced patients. Accordingly, non-opioid agents that exhibit improved efficacy-risk profiles vs. older-line agents are urgently needed.

SP-104 Could Leverage the Mechanistic Underpinnings of Low-Dose Naltrexone, While Simultaneously Addressing the Caveats of Previously Attempted Agents



Naltrexone, a competitive antagonist of the opioid receptors, is approved for alcohol and opioid addiction disorders.

Naltrexone—an FDA-approved drug for the treatment of opioid and alcohol addictions—is a competitive antagonist of the endogenous opioid receptors μ , κ and δ receptors in the CNS that also has an effect on toll-like receptor 4 or TLR4). While a typical dosage ranges between 50 to 100mg, studies suggested that low-dose naltrexone (LDN; 4.5mg; less than 1/10th of the typical dosage required for opioid addiction) exhibited analgesia and anti-inflammatory actions that could be exploited for reducing fibromyalgia symptoms.¹ However, concerns related to pharmacy compounding and GI complications associated with immediate-release drugs precluded further clinical advancement.



In a double-blind, crossover, counterbalanced study (n=30), about 50% of the participants treated with LDN (4.5mg) exhibited a significant pain reduction of pain, suggesting efficacy.

Scilex believes that delayed-release, low-dose naltrexone (<1/10th of standard dose) could be patient-friendly (less GI side effects) and eliminate issues related to pharmacy compounding, offering potential benefits to fibromyalgia patients. While such attributes are appealing, our conviction on the prospects of SP-104 is limited at this juncture, given inherent challenges associated with fibromyalgia drug development (e.g., Aptinyx's NYX-2925 failed to achieve statistically significant separation from placebo, despite evidence of drug activity in a prior biomarker study). In our view, positive preliminary POC data might partially de-risk the asset and increase investor confidence.

Source: ¹Younger et al., *Clinical Rheumatology* (2014).

7. An Extensive and Multi-Faceted Intellectual Property Estate

Scilex's Selected IP Portfolio

| Agent | Patent Number | Title | Expiration |
|------------------|-----------------|---|------------|
| ZTlido | US9283174B2 | Non-aqueous patch | 2031 |
| Gloperba | US9907751B2 | Composition and method of use of colchicine oral liquid | 2036 |
| Gloperba | US10226423B1 | Colchicine drug-to-drug interactions | 2037 |
| Elyxyb | US20220202776A1 | Methods of treating pain | Pending |
| SP-102 (Semdexa) | US10744144B2 | Pharmaceutical formulation | 2034 |

Scilex possesses a robust patent portfolio (including 16 issued and unexpired U.S. patents and 6 U.S. pending applications) covering compositions, formulations and methods of treatment in both U.S. and ex-U.S. markets. We believe such an IP portfolio provides a lengthy commercial window of opportunity (anticipated expiration between 2031 and 2037, without any extensions).

Note: Only granted U.S. patents are listed.

Source: USPTO.gov.; Scilex Holding Company.

III. Financials

ZTlido Market Model

| | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 |
|----------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|
| ZTlido™ (topical lidocaine) | | | | | | | | | | | | | |
| <i>Low concentration (1.8%)</i> | 252'681 | 379'022 | 606'434 | 909'652 | 1'091'582 | 1'200'740 | 1'284'792 | 1'323'336 | 1'124'835 | 731'143 | 402'129 | 180'958 | 135'718 |
| <i>Mid concentration (3.6%)</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>High concentration (5.4%)</i> | 0 | 0 | 60'000 | 72'000 | 208'800 | 354'960 | 425'952 | 468'547 | 445'120 | 289'328 | 188'063 | 84'628 | 63'471 |
| Revenue per script (1.8%) | \$169.71 | \$173.95 | \$178.30 | \$182.76 | \$186.42 | \$190.14 | \$193.95 | \$197.83 | \$201.78 | \$205.82 | \$209.93 | \$214.13 | \$218.42 |
| Revenue per script (3.6%) | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| Revenue per script (5.4%) | \$0.00 | \$0.00 | \$530.00 | \$543.25 | \$554.12 | \$565.20 | \$576.50 | \$588.03 | \$599.79 | \$611.79 | \$624.02 | \$636.50 | \$649.23 |
| Total annual sales (\$MM) | 43 | 66 | 140 | 205 | 319 | 429 | 495 | 537 | 494 | 327 | 202 | 93 | 71 |

Source: Company reports and H.C. Wainwright & Co. estimates.

Elyxyb Market Model

| | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| U.S. Population | 338'290'699 | 340'726'392 | 343'179'622 | 345'650'515 | 348'139'199 | 350'645'801 | 353'170'451 | 355'713'278 | 358'274'414 | 360'853'989 | 363'452'138 | 366'068'994 | 368'704'690 |
| % growth | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% |
| Patients experiencing migraines | 38'903'430 | 39'183'535 | 39'465'657 | 39'749'809 | 40'036'008 | 40'324'267 | 40'614'602 | 40'907'027 | 41'201'558 | 41'498'209 | 41'796'996 | 42'097'934 | 42'401'039 |
| % prevalence migraines | 12% | 12% | 12% | 12% | 12% | 12% | 12% | 12% | 12% | 12% | 12% | 12% | 12% |
| Patients prescribed triptans | 15'547'832 | 15'659'777 | 15'772'527 | 15'886'089 | 16'000'469 | 16'115'672 | 16'231'705 | 16'348'574 | 16'466'283 | 16'584'840 | 16'704'251 | 16'824'522 | 16'945'658 |
| % patients prescribed triptans | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% | 40% |
| Patients on Elyxyb for migraines | 933 | 4'698 | 7'886 | 12'709 | 17'601 | 25'785 | 30'840 | 37'602 | 44'459 | 26'536 | 20'045 | 13'460 | 10'167 |
| % penetration | 0.01% | 0.03% | 0.05% | 0.08% | 0.11% | 0.16% | 0.19% | 0.23% | 0.27% | 0.16% | 0.12% | 0.08% | 0.06% |
| Annualized price of Elyxyb per patient | 4'800 | 4'944 | 5'092 | 5'245 | 5'402 | 5'565 | 5'731 | 5'903 | 6'080 | 6'263 | 6'451 | 6'644 | 6'844 |
| % price growth | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% |
| Elyxyb sales (\$ MM) | 4 | 23 | 40 | 67 | 95 | 143 | 177 | 222 | 270 | 166 | 129 | 89 | 70 |

Source: Company reports and H.C. Wainwright & Co. estimates.

Gloperba Market Model

| U.S. market | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 |
|---|--------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Chronic gout patients (prevalence) | 8'610'752 | 8'715'182 | 8'820'395 | 8'926'449 | 9'033'352 | 9'141'110 | 9'249'731 | 9'359'274 | 9'469'749 | 9'581'163 | 9'693'523 | 9'806'895 | 9'921'287 |
| Patients requiring prophylactic therapy (68%) | 5'855'312 | 5'926'324 | 5'997'868 | 6'069'986 | 6'142'680 | 6'215'955 | 6'289'817 | 6'364'306 | 6'439'429 | 6'515'191 | 6'591'596 | 6'668'689 | 6'746'475 |
| Gloperba (liquid colchicine) penetration (%) | 0.03% | 0.12% | 0.26% | 0.54% | 0.83% | 0.97% | 1.12% | 1.24% | 1.45% | 1.67% | 1.78% | 2.12% | 2.19% |
| Number of patients treated | 1'622 | 7'112 | 15'594 | 32'778 | 50'984 | 60'295 | 70'446 | 78'917 | 93'372 | 108'804 | 117'330 | 141'376 | 147'748 |
| Estimated annual cost (\$) | \$4'300 | \$4'386 | \$4'474 | \$4'563 | \$4'654 | \$4'748 | \$4'842 | \$4'939 | \$5'038 | \$5'139 | \$5'242 | \$5'347 | \$5'453 |
| Gloperba sales (\$MM) | \$7.0 | \$31.2 | \$69.8 | \$149.6 | \$237.3 | \$286.3 | \$341.1 | \$389.8 | \$470.4 | \$559.1 | \$615.0 | \$755.9 | \$805.7 |
| Chronic gout patients (incidence) | 104'430 | 105'213 | 106'055 | 106'903 | 107'758 | 108'620 | 109'544 | 110'475 | 111'414 | 112'361 | 113'372 | 114'392 | 115'422 |
| Newly-diagnosed refractory gout patients (10%) | 10'443 | 10'521 | 10'605 | 10'690 | 10'776 | 10'862 | 10'954 | 11'047 | 11'141 | 11'236 | 11'337 | 11'439 | 11'542 |
| Gloperba (liquid colchicine) penetration (%) | 0.3% | 1.2% | 1.9% | 2.4% | 2.9% | 3.6% | 4.2% | 4.8% | 5.3% | 5.9% | 6.7% | 7.5% | 9.2% |
| Number of newly-diagnosed patients treated | 31 | 126 | 202 | 257 | 312 | 391 | 460 | 530 | 590 | 663 | 760 | 858 | 1'062 |
| Accumulated newly-diagnosed patients given Gloperba | 31 | 126 | 202 | 458 | 771 | 1'162 | 1'622 | 2'152 | 2'742 | 3'405 | 3'484 | 3'645 | 3'978 |
| Estimated annual cost (\$) | \$4'300 | \$4'386 | \$4'474 | \$4'563 | \$4'654 | \$4'748 | \$4'842 | \$4'939 | \$5'038 | \$5'139 | \$5'242 | \$5'347 | \$5'453 |
| Gloperba sales (\$MM) | \$0.1 | \$0.6 | \$0.9 | \$2.1 | \$3.6 | \$5.5 | \$7.9 | \$10.6 | \$13.8 | \$17.5 | \$18.3 | \$19.5 | \$21.7 |
| Gloperba sales for treatment of gout (\$MM) | \$7 | \$32 | \$71 | \$152 | \$241 | \$292 | \$349 | \$400 | \$484 | \$577 | \$633 | \$775 | \$827 |

Source: Company reports and H.C. Wainwright & Co. estimates.

SEMDEXA (SP-102) Market Model

| | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| U.S. Population | 338'290'699 | 340'726'392 | 343'179'622 | 345'650'515 | 348'139'199 | 350'645'801 | 353'170'451 | 355'713'278 | 358'274'414 | 360'853'989 | 363'452'138 | 366'068'994 | 368'704'690 | 371'359'364 |
| % growth | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% | 0.72% |
| Patients suffering from acute lower back pain | 202'974'419 | 204'435'835 | 205'907'773 | 207'390'309 | 208'883'519 | 210'387'481 | 211'902'271 | 213'427'967 | 214'964'648 | 216'512'394 | 218'071'283 | 219'641'396 | 221'222'814 | 222'815'618 |
| % prevalence of acute lower back pain | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% |
| Patients undergoing epidural steroid injection (ESI) procedures | 10'987'135 | 11'066'242 | 11'145'919 | 11'226'170 | 11'306'998 | 11'388'408 | 11'470'405 | 11'552'992 | 11'636'173 | 11'719'954 | 11'804'338 | 11'889'329 | 11'974'932 | 12'061'152 |
| % back pain patients undergoing ESI procedures | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% |
| Patients on SP-102 (dexamethasone injection) | - | 3'320 | 27'865 | 89'809 | 248'754 | 478'313 | 757'047 | 1'028'216 | 1'361'432 | 1'769'713 | 2'219'215 | 2'663'210 | 3'149'407 | 2'544'903 |
| % penetration | 0.0% | 0.03% | 0.3% | 0.8% | 2.2% | 4.2% | 6.6% | 8.9% | 11.7% | 15.1% | 18.8% | 22.4% | 26.3% | 21.1% |
| Annualized price of SP-102 per patient | - | 400 | 412 | 424 | 437 | 450 | 464 | 478 | 492 | 507 | 522 | 538 | 554 | 570 |
| % price growth | - | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% | 3% |
| SP-102 sales (\$ MM) | - | 1 | 11 | 38 | 109 | 215 | 351 | 491 | 670 | 897 | 1'158 | 1'432 | 1'744 | 1'451 |
| Royalty rate payable to Mahendra Shah | | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% |
| Milestone payments to Semnur stockholders | 0 | 0 | 0 | 0 | 20 | 20 | 50 | 150 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net revenue to Scilex from SP-102 sales (\$ MM) | - | 1 | 11 | 37 | 87 | 191 | 294 | 331 | 656 | 879 | 1'135 | 1'403 | 1'709 | 1'422 |
| Risk-adjusted revenue to Scilex from SP-102 sales (\$ MM) | - | 1 | 9 | 30 | 69 | 153 | 235 | 265 | 525 | 703 | 908 | 1'122 | 1'367 | 1'138 |

Source: Company reports and H.C. Wainwright & Co. estimates.

Valuation

| Scilex Holding Company (\$MM except amount per share) | Product | Launch Year | Generic Entry | Peak Sales (\$M) | Royalty Rate | Probability To Launch | NPV | Amount Per Share |
|--|-----------|-------------|---------------|------------------|--------------|-----------------------|---------|------------------|
| Neuropathic pain | ZTlido® | 2018 | 2039 | \$537 | 25% - 35% | 100% | | |
| Migraine | Elyxyb™ | 2023 | 2035 | \$270 | | 100% | | |
| Chronic gout | Gloperba® | 2023 | 2037 | \$827 | 8% - 10% | 100% | | |
| Acute lower back pain | SEMDEXA™ | 2024 | 2036 | \$1'744 | 2% | 80% | | |
| | | | | | | | \$3'421 | \$12.40 |
| Enterprise value | | | | | | | \$3'421 | \$12.40 |
| Debt at end-3Q23 | | | | | | | \$122 | \$0.40 |
| Cash at end-3Q23 | | | | | | | \$51 | \$0.20 |
| Market value of the firm | | | | | | | \$3'350 | \$12.00 |

- Using a 10% discount rate and 1.5% terminal growth rate, our discounted cash flow (DCF)-based analysis has resulted in an estimated enterprise value of approximately \$3.4 billion. We believe our discount rate assumption is reasonable, considering the substantial size and well-established nature of the target markets in neuropathic pain, migraine, gout and lower back pain as well as the well-known nature of the active pharmaceutical ingredients (APIs) used in each of Scilex's marketed products and its most advanced clinical-stage asset, SEMDEXA. Similarly, we believe that our 1.5% terminal growth rate is reflective of the status of the company's intellectual property (IP) estate plus the indication expansion possibilities with its existing portfolio and may even be considered conservative given the omission from our valuation assessment of any contribution from ex-U.S. sales of any of Scilex's products as well as any other pipeline candidates, notably SP-103 and SP-104.
- We have assumed that Scilex would continue to self-commercialize ZTlido, Elyxyb and Gloperba with its existing proprietary sales force and deploy this infrastructure in order to launch SEMDEXA as well in the U.S. In our view, the company should only need to make incremental additions to its current sales and marketing organization to be sufficiently staffed to support the commercialization of all four products in the U.S.
- The company has several debt instruments outstanding, one of which is associated with issuance of multiple tranches of warrants depending upon the timing of repayment. Assuming roughly 274 million fully-diluted shares outstanding as of end-3Q24 (which assumes issuance of all warrants based on no early debt repayment), this leads to a 12-month price objective of \$12 per share.
- Although we have forecasted some generic erosion starting in 2035 or 2036 for all forecasted product sales, we note that there are multiple layers to Scilex's patent estate and the company's proprietary knowledge involves sophisticated formulation expertise that may prove difficult for generic drug makers to replicate. Accordingly, our projections with respect to the timing of generic erosion may prove conservative as well.

Source: Company reports and H.C. Wainwright & Co. estimates.

Discounted Cash Flow Analysis

| Fiscal Year Ending | 31/12/2023 | 31/12/2024 | 31/12/2025 | 31/12/2026 | 31/12/2027 | 31/12/2028 | 31/12/2029 | 31/12/2030 | 31/12/2031 | 31/12/2032 | 31/12/2033 | 31/12/2034 | 31/12/2035 | 31/12/2036 |
|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Revenue (\$MM) | \$53 | \$117 | \$249 | \$430 | \$689 | \$971 | \$1'200 | \$1'358 | \$1'693 | \$1'696 | \$1'794 | \$1'992 | \$2'244 | \$1'724 |
| EBIT | (\$97) | (\$67) | \$150 | \$260 | \$416 | \$587 | \$725 | \$821 | \$1'023 | \$1'025 | \$1'084 | \$1'203 | \$1'356 | \$1'042 |
| Less: Taxes | \$0 | \$0 | \$0 | \$0 | \$0 | (\$175) | (\$216) | (\$245) | (\$305) | (\$306) | (\$323) | (\$359) | (\$405) | (\$311) |
| Debt-Free Earnings | (\$97) | (\$67) | \$150 | \$260 | \$416 | \$412 | \$509 | \$576 | \$718 | \$719 | \$760 | \$844 | \$951 | \$731 |
| Less: Capital Expenditures | (\$2) | (\$3) | (\$7) | (\$13) | (\$21) | (\$29) | (\$36) | (\$41) | (\$51) | (\$51) | (\$54) | (\$60) | (\$67) | (\$52) |
| Less: Working Capital Requirements | (\$0) | (\$2) | (\$4) | (\$5) | (\$8) | (\$8) | (\$7) | (\$5) | (\$10) | (\$0) | (\$3) | (\$6) | (\$8) | \$16 |
| Add: Depreciation and Amortization | \$1 | \$2 | \$5 | \$9 | \$14 | \$19 | \$24 | \$27 | \$34 | \$34 | \$36 | \$40 | \$45 | \$34 |
| Total Net Investment | (\$1) | (\$3) | (\$6) | (\$10) | (\$15) | (\$18) | (\$19) | (\$18) | (\$27) | (\$17) | (\$21) | (\$26) | (\$30) | (\$2) |
| Net Debt-Free Cash Flows: | (\$98) | (\$70) | \$144 | \$250 | \$402 | \$393 | \$490 | \$557 | \$691 | \$702 | \$740 | \$819 | \$921 | \$729 |
| Discount Period | 0.23 | 1.23 | 2.23 | 3.23 | 4.23 | 5.23 | 6.23 | 7.23 | 8.23 | 9.24 | 10.24 | 11.24 | 12.24 | 13.24 |
| Discount Factor 10.0% | 0.98 | 0.89 | 0.81 | 0.74 | 0.67 | 0.61 | 0.55 | 0.50 | 0.46 | 0.41 | 0.38 | 0.34 | 0.31 | 0.28 |
| PV of Net Debt-Free Cash Flows: | (\$96) | (\$62) | \$116 | \$184 | \$268 | \$239 | \$270 | \$280 | \$315 | \$291 | \$279 | \$281 | \$287 | \$206 |

| DCF Assumptions | |
|-----------------|-----|
| Discount Rate | 10% |
| Tax Rate | 30% |

| | | Growth Rate | | | | |
|---------------|-----|-------------|-------|-------|-------|--------|
| | | -2.5% | -0.5% | 1.5% | 3.5% | 5.5% |
| Discount Rate | 6% | 5'011 | 5'202 | 5'563 | 6'502 | 14'954 |
| | 8% | 4'037 | 4'123 | 4'262 | 4'523 | 5'204 |
| | 10% | 3'316 | 3'358 | 3'421 | 3'522 | 3'713 |
| | 12% | 2'760 | 2'783 | 2'814 | 2'860 | 2'934 |
| | 14% | 2'322 | 2'335 | 2'351 | 2'374 | 2'408 |

| Perpetuity Growth Assumptions | |
|-----------------------------------|----------------|
| 2041 Cash Flow (1.5% Growth Rate) | \$146.4 |
| Growth Rate | 0.02 |
| Terminal Value | \$1'723 |
| Discount Period | 18.24 |
| Discount Factor @ 10.0% | 0.18 |
| PV of Terminal Value | \$303 |

| Distribution of Value | |
|-----------------------|--------|
| Period Cash Flow | 91.1% |
| Terminal Cash Flow | 8.9% |
| Total | 100.0% |

Source: Company reports and H.C. Wainwright & Co. estimates.

Financial Review and Outlook

Revenue

We project \$53.4 million in top-line revenue for 2023, rising to \$116.6 million in 2024 as Scilex establishes Elyxib and Gloperba alongside its existing established franchise, ZTlido. In addition, we believe SEMDEXA (SP-102) could be introduced into the U.S. market in late 2024, becoming a modest revenue contributor in that year. This assumption is contingent upon the FDA's willingness to accept a single Phase 3 trial.

Gross Margin

In our view, Scilex's marketed products and clinical-stage candidates ought to enjoy typical gross margins associated with small molecule ethical pharmaceuticals, which generally are >90%. We have forecast gross margins in the >90% range.

Operating expenses

We forecast total R&D spending of \$12.7 million in 2023, rising to \$18 million in 2024. This reflects the expenses associated with pursuit of regulatory approval for SEMDEXA, along with ongoing spending associated with the advancement of earlier-stage pipeline programs, including conduction of Phase 2 development for SP-103 and SP-104. Our assumptions also include SG&A spending of \$114.7 million in 2023, rising to \$128 million in 2024. In our view, total annual expenses associated with the company's proprietary in-house specialty sales force should approximate roughly \$30 million, even assuming some degree of headcount expansion in this group.

Taxes

Scilex Holding Company is headquartered in Palo Alto, CA. We therefore project an effective tax rate of 29.84%, which corresponds to the 21% statutory federal corporate income tax rate in the U.S. along with the 8.84% corporate income tax rate applicable in California. We have assumed that the company could begin generating taxable income in the 2027 timeframe, with accumulated net operating loss carry-forwards offsetting taxable income until then.

Share Count

Scilex Holding Company closed 2Q23 with approximately 153 million shares of common stock outstanding. The company also has roughly 31.4 million options and about 11 million warrants to purchase common stock outstanding, plus an additional 13 million warrants issuable to a debt holder. The options have a weighted average exercise price of \$4.66 per share, while the outstanding warrants are all exercisable at \$11.50 per share and the issuable warrants have an exercise price of \$0.01 per share.

EPS

We project a net loss of \$0.72 per share in 2023 and a net loss of \$0.35 per share in 2024. In our view, Scilex may not turn cash flow-positive until 2025 depending upon the pace of sales growth for its marketed products and timely launch of SEMDEXA.

Balance Sheet

As of June 30, 2023, Scilex had roughly \$34.1 million in cash and equivalents on its balance sheet and was eligible to draw an additional \$15.6 million in proceeds from its convertible debenture facility as well as other proceeds from a separate loan facility. We expect these resources to be sufficient to fund operations at least into early 2024.

Cash Flow

We expect Scilex to remain cash flow-negative for the foreseeable future, as it continues the commercialization of its marketed product portfolio and advances development of its mid- and late-stage clinical candidates. The company may only begin to generate positive cash flow from operations in 2025, depending upon market uptake of ZTlido, Elyxib and Gloperba as well as timely approval and launch of SEMDEXA. Progress with other agents may drive upside to our forecasts.

Investment Risks

Financial outlook risk

Scilex has never been profitable and may require additional capital in the future to drive the development of its pipeline and finance the acquisition of other products and pipeline candidates. Thus, the company's stock could experience above-average risk and volatility.

Commercial risk

Scilex may not achieve commercial success due to market size, penetration rate or competition. Further, we cannot have absolute certainty that other therapies in development might not be preferred by clinicians, to the detriment of the company's drugs. Sales may lead Scilex to profitability but may differ materially from our projections. Scilex may need to seize market share from substantially more significant, more established firms, which might prove challenging.

Regulatory unpredictability

The regulatory process involves the submission of large amounts of clinical and preclinical data, and there is no guarantee that such data sets, even if furnished, would be sufficient for FDA approval. Applications for approval in the EU may require additional studies, including increased numbers of European patients.

Reimbursement risk

The U.S. drug pricing environment is subject to constant change and is currently the basis of controversy. We do not expect the debate over drug pricing to subside near-term in the U.S. In other countries, reimbursement is subject to tighter controls due to budgetary concerns and single-payer healthcare systems. Accordingly, achieving reasonable pricing may not be possible ex-U.S.

Competitive landscape risk

Scilex is primarily developing novel non-opioid drugs for pain management. Although we find the preclinical and clinical data encouraging, this cannot be considered a guarantee of future clinical or commercial success in the context of the preclinical nature of the data and the current competitive landscape. The company's key competitors include both small and established commercial entities, including firms like Amgen, AbbVie, Axsome, Eli Lilly & Co., Pfizer, Teva, Viatrix and others.

Intellectual property risk

Scilex's IP estate includes include 16 approved U.S. patents (6 pending U.S. applications) that are slated to expire between 2031 and 2037. Scilex relies on patents and trade secrets to protect its products from competition, which is rife. In extreme cases, this may lead to lawsuits in the pursuit of protection of IP. There can be no guarantee that Scilex, if a party to such litigation, would prevail against potential opponents.

Historical Income Statement and Financial Projections

FY end December 31

\$ in thousands, except per share data

| | 2022A | 2023E | | | | 2023E | 2024E | | | | |
|---|----------|----------|----------|----------|----------|-----------|----------|----------|----------|---------|----------|
| | | 1QA | 2QA | 3QE | 4QE | | 1QE | 2QE | 3QE | 4QE | 2024E |
| Revenue | | | | | | | | | | | |
| Product revenue | 38'034 | 10'582 | 12'582 | 13'948 | 16'252 | 53'364 | 18'785 | 24'964 | 32'332 | 40'537 | 116'618 |
| Service revenue | - | - | - | - | - | - | - | - | - | - | - |
| Research and other | - | - | - | - | - | - | - | - | - | - | - |
| Total revenue | 38'034 | 10'582 | 12'582 | 13'948 | 16'252 | 53'364 | 18'785 | 24'964 | 32'332 | 40'537 | 116'618 |
| Expenses | | | | | | | | | | | |
| Cost of product and service revenue | 10'797 | 3'591 | 4'177 | 4'882 | 5'851 | 18'501 | 6'011 | 7'739 | 9'376 | 10'945 | 34'071 |
| Research & development | 9'054 | 2'736 | 3'204 | 3'300 | 3'500 | 12'740 | 3'800 | 4'200 | 4'700 | 5'300 | 18'000 |
| Selling, general and administrative | 64'895 | 28'701 | 26'989 | 29'000 | 30'000 | 114'690 | 32'000 | 32'000 | 32'000 | 32'000 | 128'000 |
| Intangible amortization | 3'922 | 1'027 | 1'026 | 1'000 | 1'000 | 4'053 | 800 | 800 | 800 | 800 | 3'200 |
| Total expenses | 88'668 | 36'055 | 35'396 | 38'182 | 40'351 | 149'984 | 42'611 | 44'739 | 46'876 | 49'045 | 183'271 |
| Gain (loss) from operations | (50'634) | (25'473) | (22'814) | (24'234) | (24'099) | (96'620) | (23'826) | (19'775) | (14'544) | (8'508) | (66'653) |
| Other income/expense | | | | | | | | | | | |
| Interest income/expense | (9'604) | 1 | (5) | (1'700) | (2'292) | (3'996) | (1'950) | (1'490) | (1'050) | (480) | (4'970) |
| Gain (loss) on derivative liability | 8'310 | (5'253) | (82) | - | - | (5'335) | - | - | - | - | - |
| Gain (loss) on debt extinguishment | 28'634 | - | - | - | - | - | - | - | - | - | - |
| Scilex Notes principal / debenture fair value change | - | - | (3'748) | - | - | (3'748) | - | - | - | - | - |
| Loss (gain) on foreign currency exchange | (66) | (20) | (3) | - | - | (23) | - | - | - | - | - |
| Total investment income and other | 27'274 | (5'272) | (3'838) | (1'700) | (2'292) | (13'102) | (1'950) | (1'490) | (1'050) | (480) | (4'970) |
| Loss before provision for income taxes | (23'360) | (30'745) | (26'652) | (25'934) | (26'391) | (109'722) | (25'776) | (21'265) | (15'594) | (8'988) | (71'623) |
| Deferred income tax benefit | (4) | (8) | - | - | - | (8) | - | - | - | - | - |
| Net loss/income | (23'364) | (30'753) | (26'652) | (25'934) | (26'391) | (109'730) | (25'776) | (21'265) | (15'594) | (8'988) | (71'623) |
| Net loss per share (basic) | (0.17) | (0.22) | (0.19) | (0.16) | (0.16) | (0.72) | (0.14) | (0.11) | (0.07) | (0.04) | (0.35) |
| Net loss per share (diluted) | (0.17) | (0.22) | (0.19) | (0.16) | (0.16) | (0.72) | (0.14) | (0.11) | (0.07) | (0.04) | (0.35) |
| Weighted average number of shares outstanding (basic) | 134'226 | 141'660 | 142'626 | 158'725 | 168'775 | 152'946 | 183'850 | 198'950 | 209'050 | 219'150 | 202'750 |
| Weighted average number of shares outstanding (diluted) | 134'226 | 141'660 | 142'626 | 158'725 | 168'775 | 152'946 | 183'850 | 198'950 | 209'050 | 219'150 | 202'750 |

Source: Company reports and H.C. Wainwright & Co. estimates.

Historical Balance Sheet and Financial Projections

FY end December 31

\$ in thousands, except per share data

| | 12/31/22A | 2023E | | | | 2024E | | | | | |
|---|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | 3/31A | 6/30A | 9/30 | 12/31 | 12/31/23E | 3/31 | 6/30 | 9/30 | 12/31 | 12/31/24E |
| Assets | | | | | | | | | | | |
| Current assets: | | | | | | | | | | | |
| Cash and cash equivalents | 2'184 | 5'069 | 34'122 | 51'428 | 30'573 | 30'573 | 94'097 | 78'432 | 162'438 | 159'050 | 159'050 |
| Accounts receivable | 21'236 | 19'244 | 27'568 | 27'568 | 27'568 | 27'568 | 27'568 | 27'568 | 27'568 | 27'568 | 27'568 |
| Inventories | 1'378 | 2'275 | 3'110 | 3'110 | 3'110 | 3'110 | 3'110 | 3'110 | 3'110 | 3'110 | 3'110 |
| Other assets and prepaid expenses | 4'810 | 4'516 | 4'447 | 4'447 | 4'447 | 4'447 | 4'447 | 4'447 | 4'447 | 4'447 | 4'447 |
| Total current assets | 29'608 | 31'104 | 69'247 | 86'553 | 65'698 | 65'698 | 129'222 | 113'557 | 197'563 | 194'175 | 194'175 |
| Property and equipment | 772 | 762 | 760 | (276) | (1'312) | (1'312) | (1'912) | (2'512) | (3'112) | (3'712) | (3'712) |
| Intangible assets | 40'591 | 39'564 | 38'538 | 38'538 | 38'538 | 38'538 | 38'538 | 38'538 | 38'538 | 38'538 | 38'538 |
| Operating lease right-of-use asset | 1'131 | 987 | 3'294 | 3'294 | 3'294 | 3'294 | 3'294 | 3'294 | 3'294 | 3'294 | 3'294 |
| Goodwill | 13'481 | 13'481 | 13'481 | 13'481 | 13'481 | 13'481 | 13'481 | 13'481 | 13'481 | 13'481 | 13'481 |
| Other assets | 944 | 153 | 1'144 | 1'144 | 1'144 | 1'144 | 1'144 | 1'144 | 1'144 | 1'144 | 1'144 |
| Total Assets | 86'527 | 86'051 | 126'464 | 142'734 | 120'843 | 120'843 | 183'767 | 167'502 | 250'908 | 246'920 | 246'920 |
| Liabilities and shareholder equity | | | | | | | | | | | |
| Current liabilities | | | | | | | | | | | |
| Accounts payable | 8'450 | 9'817 | 11'412 | 11'412 | 11'412 | 11'412 | 11'412 | 11'412 | 11'412 | 11'412 | 11'412 |
| Accrued expenses | 3'136 | 6'679 | 4'949 | 4'949 | 4'949 | 4'949 | 4'949 | 4'949 | 4'949 | 4'949 | 4'949 |
| Accrued payroll and rebates | 32'247 | 37'342 | 50'531 | 50'531 | 50'531 | 50'531 | 50'531 | 50'531 | 50'531 | 50'531 | 50'531 |
| Current portion of deferred consideration | 264 | 391 | 516 | 516 | 516 | 516 | 516 | 516 | 516 | 516 | 516 |
| Current portion of long-term debt | - | 9'600 | 35'399 | 35'399 | 35'399 | 35'399 | 35'399 | 35'399 | 35'399 | 35'399 | 35'399 |
| Other current liabilities | 745 | 773 | 776 | 776 | 776 | 776 | 776 | 776 | 776 | 776 | 776 |
| Total current liabilities | 44'842 | 64'602 | 103'583 | 103'583 | 103'583 | 103'583 | 103'583 | 103'583 | 103'583 | 103'583 | 103'583 |
| Operating lease liabilities | 665 | 6'484 | 2'594 | 2'594 | 2'594 | 2'594 | 2'594 | 2'594 | 2'594 | 2'594 | 2'594 |
| Other long-term liabilities | 163 | 168 | 169 | 169 | 169 | 169 | 169 | 169 | 169 | 169 | 169 |
| Long-term portion of deferred consideration | 3'387 | 3'260 | 3'135 | 3'135 | 3'135 | 3'135 | 3'135 | 3'135 | 3'135 | 3'135 | 3'135 |
| Derivative liabilities | 1'231 | 461 | 6'566 | 6'566 | 6'566 | 6'566 | 6'566 | 6'566 | 6'566 | 6'566 | 6'566 |
| Total Liabilities | 50'288 | 74'975 | 116'047 | 116'047 | 116'047 | 116'047 | 116'047 | 116'047 | 116'047 | 116'047 | 116'047 |
| Shareholder's equity | | | | | | | | | | | |
| Common and preferred stock | 17 | 18 | 18 | 38 | 38 | 38 | 68 | 68 | 88 | 89 | 89 |
| Additional paid-in capital | 412'136 | 417'725 | 443'715 | 480'895 | 480'895 | 480'895 | 564'565 | 564'565 | 658'545 | 658'545 | 658'545 |
| Accumulated income (deficit) | (375'914) | (406'667) | (433'316) | (454'246) | (476'137) | (476'137) | (496'913) | (513'178) | (523'772) | (527'760) | (527'760) |
| Total shareholder's equity | 36'239 | 11'076 | 10'417 | 26'687 | 4'796 | 4'796 | 67'720 | 51'455 | 134'861 | 130'873 | 130'873 |
| Total liability and shareholder's equity | 86'527 | 86'051 | 126'464 | 142'734 | 120'843 | 120'843 | 183'767 | 167'502 | 250'908 | 246'920 | 246'920 |

Source: Company reports and H.C. Wainwright & Co. estimates.

Cash Flow Statement and Financial Projections

FY end December 31

\$ in thousands, except per share data

| | 2022A | 2023E | | | | 2023E | 2024E | | | | 2024E |
|--|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|
| | | 1QA | 2QA | 3QE | 4QE | | 1QE | 2QE | 3QE | 4QE | |
| Cash flows from operating activities | | | | | | | | | | | |
| Net loss | (23'364) | (30'753) | (26'652) | (25'934) | (26'391) | (109'730) | (25'776) | (21'265) | (15'594) | (8'988) | (71'623) |
| Adjustments for: | | | | | | | | | | | |
| Stock-based compensation | 5'280 | 3'720 | 3'587 | 4'000 | 4'500 | 15'807 | 5'000 | 5'000 | 5'000 | 5'000 | 20'000 |
| Depreciation & amortization | 3'961 | 1'037 | 1'036 | 1'036 | 1'036 | 4'145 | 600 | 600 | 600 | 600 | 2'400 |
| Accreted interest related to debt discount | (21'190) | - | 1 | - | - | 1 | - | - | - | - | - |
| Amortization of debt issuance costs and debt discount | 3'142 | - | - | - | - | - | - | - | - | - | - |
| (Gain) loss on debt extinguishment, net | (28'634) | - | - | - | - | - | - | - | - | - | - |
| (Gain) loss on derivative liability | (8'310) | 5'253 | 82 | - | - | 5'335 | - | - | - | - | - |
| Change in fair value of convertible debentures | - | - | 3'748 | - | - | 3'748 | - | - | - | - | - |
| Forfeitures of private warrants | 1'697 | - | - | - | - | - | - | - | - | - | - |
| Other non-cash expense | 492 | 144 | (5) | - | - | 139 | - | - | - | - | - |
| Change in operating assets & liabilities | | | | | | | | | | | |
| Accounts receivable | (6'968) | 1'992 | (8'324) | - | - | (6'332) | - | - | - | - | - |
| Inventory | 1'184 | (897) | (835) | - | - | (1'732) | - | - | - | - | - |
| Prepaid expenses and other current assets | (2'629) | 294 | (303) | - | - | (9) | - | - | - | - | - |
| Other non-current assets | 350 | 997 | (193) | - | - | 804 | - | - | - | - | - |
| Accounts payable | 2'806 | 2'001 | 2'333 | - | - | 4'334 | - | - | - | - | - |
| Accrued payroll, rebates and fees | 21'152 | 5'095 | 13'189 | - | - | 18'284 | - | - | - | - | - |
| Accrued expenses | (123) | 3'543 | (2'018) | - | - | 1'525 | - | - | - | - | - |
| Other liabilities | (392) | (175) | (163) | - | - | (338) | - | - | - | - | - |
| Related party payable | 30'125 | - | 1'043 | - | - | 1'043 | - | - | - | - | - |
| Other long-term liabilities | 163 | 5 | 1 | - | - | 6 | - | - | - | - | - |
| Total change in operating assets & liabilities | 45'668 | 12'855 | 4'730 | - | - | 17'585 | - | - | - | - | - |
| Cash flows from operating activities | (21'258) | (7'744) | (13'473) | (20'898) | (20'855) | (62'970) | (20'176) | (15'665) | (9'994) | (3'388) | (49'223) |
| Cash flows from investing activities | | | | | | | | | | | |
| Investment in PPE | (7) | - | (8) | - | - | (8) | - | - | - | - | - |
| Intangible asset acquisition consideration | (2'060) | - | - | - | - | - | - | - | - | - | - |
| Cash flows from investing activities | (2'067) | - | (8) | - | - | (8) | - | - | - | - | - |
| Cash flows from financing activities | | | | | | | | | | | |
| Proceeds from business combination | 3'375 | - | - | - | - | - | - | - | - | - | - |
| Transaction costs paid related to business combination | (2'949) | (634) | (738) | - | - | (1'372) | - | - | - | - | - |
| Proceeds from loans | 9'857 | 9'600 | 7'938 | - | - | 17'538 | - | - | - | - | - |
| Proceeds from convertible debentures | - | - | 24'000 | - | - | 24'000 | - | - | - | - | - |
| Exercise of stock options | 96 | - | - | - | - | - | - | - | - | - | - |
| Payment of debt issuance costs | - | - | (380) | - | - | (380) | - | - | - | - | - |
| Repayment of principal on notes | (84'808) | - | - | - | - | - | - | - | - | - | - |
| Repayment on other loans | (18'800) | - | (2'528) | - | - | (2'528) | - | - | - | - | - |
| Proceeds from related party payable | 51'900 | - | - | - | - | - | - | - | - | - | - |
| Proceeds from related party note payable | 62'500 | - | - | - | - | - | - | - | - | - | - |
| Proceeds from issuance of common stock and warrants | - | 1'663 | 15'246 | 37'200 | - | 54'109 | 83'700 | - | 94'000 | - | 177'700 |
| Cash flows from financing activities | 21'171 | 10'629 | 43'538 | 37'200 | - | 91'367 | 83'700 | - | 94'000 | - | 177'700 |
| Net increase/ decrease in cash and cash equivalents | (2'154) | 2'885 | 30'057 | 16'302 | (20'855) | 28'389 | 63'524 | (15'665) | 84'006 | (3'388) | 128'477 |
| Cash and cash equivalents, beginning of period | 4'338 | 2'184 | 5'069 | 35'126 | 51'428 | 2'184 | 30'573 | 94'097 | 78'432 | 162'438 | 30'573 |
| Cash and cash equivalents, end of period | 2'184 | 5'069 | 35'126 | 51'428 | 30'573 | 30'573 | 94'097 | 78'432 | 162'438 | 159'050 | 159'050 |

Source: Company reports and H.C. Wainwright & Co. estimates.

Public Companies Mentioned in this Report

AbbVie (ABBV; not rated)
Amgen (AMGN; not rated)
Aptinyx (APTX; not rated)
Axsome Therapeutics (AXSM; Buy)
BeyondSpring (BYSI; not rated)
Collegium Pharmaceuticals (COLL; Neutral; Livnat)
CVS Health Corporation (CVS; not rated)
Dr. Reddy's Laboratories Ltd. (RDY; not rated)
Eli Lilly & Co. (LLY; not rated)
Endo International plc (OTC: ENDPQ; not rated)
Pacira BioSciences (PCRX; Buy; Livnat)
Pfizer (PFE; not rated)
Teva Pharmaceutical Industries Ltd. (TEVA; not rated)
Viartis Inc. (VTRS; not rated)

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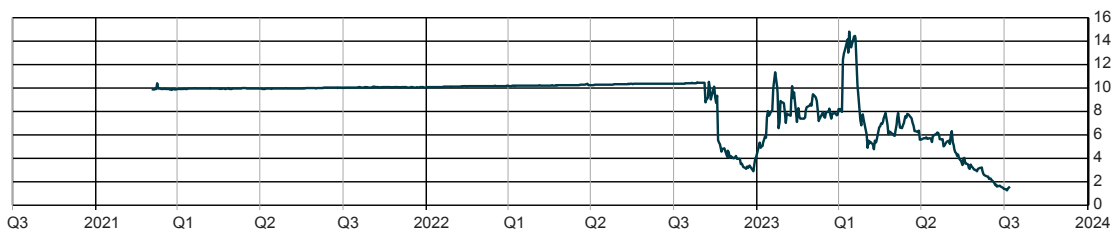
RETURN ASSESSMENT

Market Outperform (Buy): The common stock of the company is expected to outperform a passive index comprised of all the common stock of companies within the same sector.

Market Perform (Neutral): The common stock of the company is expected to mimic the performance of a passive index comprised of all the common stock of companies within the same sector.

Market Underperform (Sell): The common stock of the company is expected to underperform a passive index comprised of all the common stock of companies within the same sector.

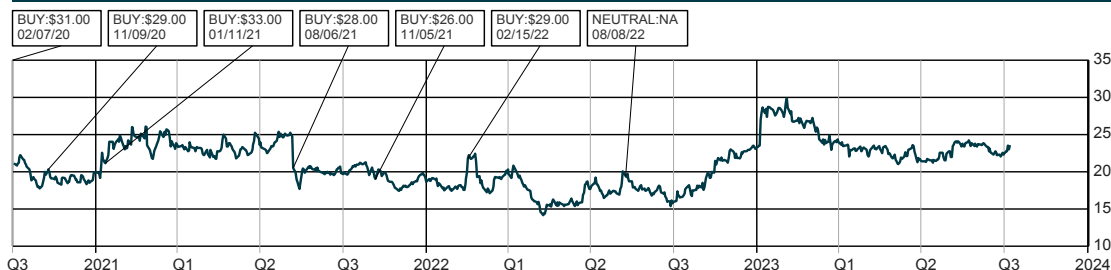
Rating and Price Target History for: Scilex Holding Company (SCLX-US) as of 10-06-2023

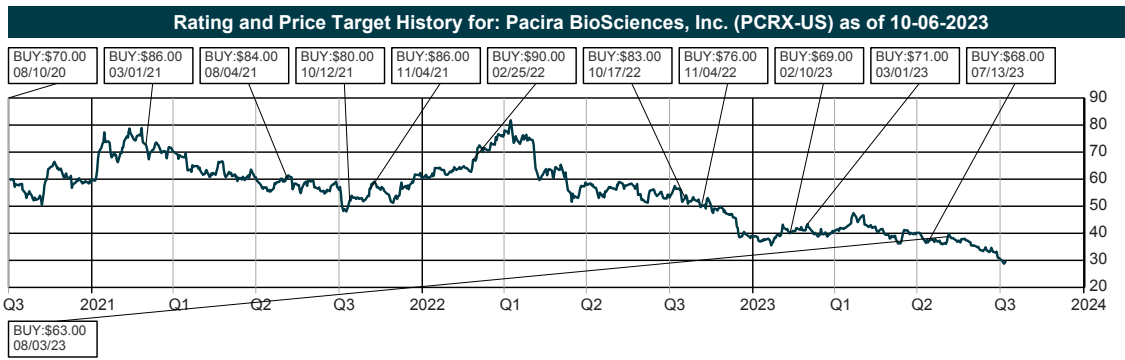


Rating and Price Target History for: Axsome Therapeutics, Inc. (AXSM-US) as of 10-06-2023



Rating and Price Target History for: Collegium Pharmaceutical, Inc. (COLL-US) as of 10-06-2023





| Related Companies Mentioned in this Report as of Oct/06/2023 | | | | | |
|--|--------|------------------------|-----------------------|---------|------------|
| Company | Ticker | H.C. Wainwright Rating | 12 Month Price Target | Price | Market Cap |
| Axsome Therapeutics, Inc. | AXSM | Buy | \$180.00 | \$68.60 | \$3237 |
| Collegium Pharmaceutical, Inc. | COLL | Neutral | \$NA | \$23.60 | \$820 |
| Pacira BioSciences, Inc. | PCRX | Buy | \$63.00 | \$29.80 | \$1383 |

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| Distribution of Ratings Table as of October 6, 2023 | | | | |
|---|-------|---------|---------------------------|---------|
| Ratings | Count | Percent | IB Service/Past 12 Months | |
| | | | Count | Percent |
| Buy | 561 | 89.05% | 144 | 25.67% |
| Neutral | 61 | 9.68% | 11 | 18.03% |
| Sell | 0 | 0.00% | 0 | 0.00% |
| Under Review | 8 | 1.27% | 3 | 37.50% |

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