

Tarsus Pharmaceuticals

Jefferies Virtual London Healthcare Conference November 17, 2020



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Corporate Highlights

FDA-approved
therapeutic for Demodex
blepharitis. Significant
market opportunity with no
approved therapies

Completed five clinical trials, including two Phase 2b randomized control trials.

Consistently met safety and efficacy endpoints

Commenced
Phase 2b/3
enrollment in
September 2020
(Saturn-1 trial)









advancing to Phase 2a proof of concept in MGD², and Phase 1/2 trials in rosacea³, Lyme disease and malaria⁴

^{1 –} The market for Demodex blepharitis may not be similar based on differences in the underlying disease, different ECP and patient attitudes, and treatment and/or key assumptions we have not taken into our analysis.

^{2 –} We intend to rely on preclinical studies for Demodex blepharitis and clinical safety assessments from the Demodex blepharitis program in order to advance to Phase 2a for MGD. We have not conducted and we do not intend to conduct any preclinical studies with TP-03 for the treatment of MGD.

^{3 –} We intend to leverage systemic preclinical data from our TP-03 program and augment with additional dermal preclinical studies to select formulation in order to advance to Phase 1/2. We have not conducted any preclinical studies in rosacea with TP-04 to date. See slide [24] (including the footnotes thereto) for more information.

^{4 –}In relation to Lyme disease and malaria, we intend to leverage oral systemic preclinical data from our TP-03 program as well as third-party oral systemic preclinical studies for Lyme disease or community malaria reduction, respectively (and will not conduct our own preclinical studies for Lyme disease and malaria). See slide [24] (including the footnotes thereto for more information.

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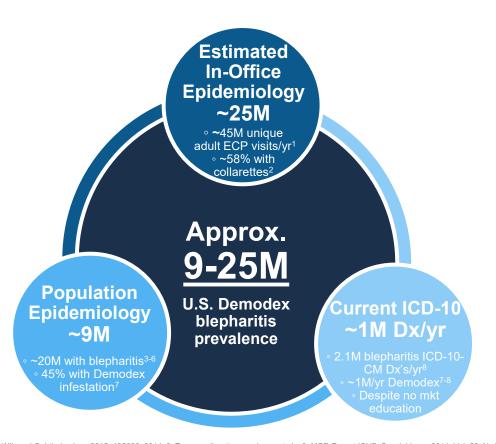
Our Mission

To discover and deliver breakthrough treatments to transform the lives of patients with common and poorly treated diseases, starting with the eye



Blepharitis is a Large and Underserved Market in Eye Care

Epidemiology of Demodex Blepharitis



Prescription Treatment

None



Largely Underdiagnosed, Education Needed	~ 58% of <u>all patients</u> in the eye clinic have collarettes ² but current impression of only 10-15% of blepharitis cases			
Significant head start on Diagnosis	2.1M ICD-10 Blepharitis Dx's/yr ⁸			
Blepharitis Routinely Causes	Eyelids to become red, irritated and itchy, with debris on the eyelashes. ⁹			
Blepharitis Can Lead To	Blurring of vision, missing or misdirected eyelashes, and inflammation of other eye tissue, particularly the cornea ⁴			
Concomitant Dry Eye	Significant overlap in Dry Eye patients. Demodex prevalent in ~69% of DE patients ⁵			
Blepharitis and Surgery	Important factor for maximizing surgical outcomes: 67% of Cataract Patients have Demodex blepharitis ⁶			
Contact Lens Drop-out	Studies have shown a direct correlation between Demodex blepharitis and Contact Lens intolerance ¹⁰			



^{1.} Wilson J Ophthalmology 2015, 435606, 2014; 2. Tarsus collarette prevalence study; 3. MGD Report IOVS, Special Issue 2011, Vol. 52, N. 4; 4. American Optometric Association; 5. Cheng Cornea Sept 2020; 6. IOVS June 2020; 7. Zhao - Ophthalmic Epidemiology, 19(2), 95–102, 2012; 8. Symphony Claims Data Analysis; 9. Harmon, Market Scope Dry Eye Analyst Report, 2014 10. Tarkowski W, Moneta-Wielgoś J, Młocicki D. Demodex sp. as a Potential Cause of the Abandonment of Soft Contact Lenses by Their Existing Users. Biomed Res Int. 2015;2015:259109

Blepharitis has Potential Similarities to Dry Eye Market 15 Years Ago

Potential Large Latent Demand for a New Therapy

- Dry eye is a similar ocular surface disease to Blepharitis, that is likewise treated by ECPs*
- Large untapped patient population that was activated through education of ECPs and patients
- In 2003, no approved dry eye therapeutics
 - With approval of a prescription therapeutic and concurrent ECP and patient education, diagnosis rate increased 12 times
- Blepharitis already has 2.1 million diagnoses per year, despite no approved therapies
- Collarette prevalence study suggests Demodex blepharitis prevalence > 2 times dry eye prescriptions across MD and OD clinics

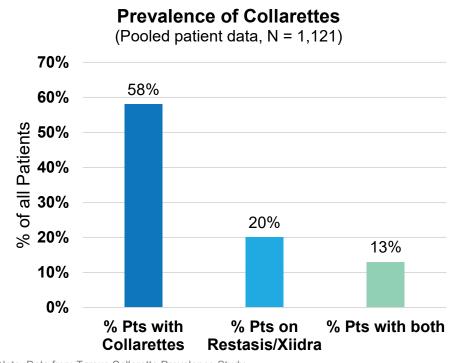


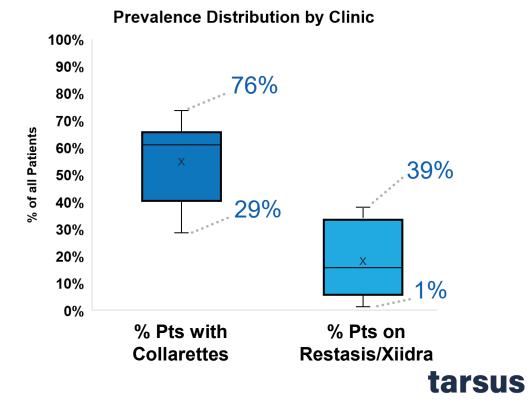
Dry Eye ICD Diagnoses/Year 7.000.000 6,000,000 5,000,000 Launch **Jry Eye Diagnoses per Year** Of Rx Ramp In **Dry Eye** DTC **Campaigns Product** 4,000,000 3,000,000 **Blepharitis** 2.1M/yr 2,000,000 1,000,000 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

^{*}The market for Demodex blepharitis may not be similar based on differences in the underlying disease, different ECP and patient attitudes, and treatment and/or key assumptions we have not taken into our analysis.

Half of All Patients Entering Clinic have Collarettes

- Since Demodex is newly appreciated as a cause of blepharitis, Tarsus performed the first-ever Demodex blepharitis in-clinic prevalence study
- Methods: every consecutive patient seen by the clinic is evaluated for
 - 1. Presence of collarettes (the pathognomonic sign and key diagnostic for Demodex blepharitis)
 - Whether they have an active Rx for dry eye (Restasis® or Xiidra®)
- N = 1,121 consecutive patients, 8 clinics (MDs and ODs, geographically diverse)





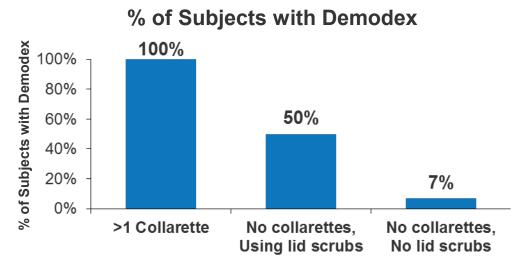
Collarettes Are Pathognomonic Sign of Demodex Infestation

Collarettes Are Composed of Mite Waste Products and Eggs¹

- Regurgitated undigested material combined with epithelial cells, keratin, and mite eggs
- Contain digestive enzymes, which cause irritation

Easily and Rapidly Diagnosed with Standard Eye Exam

- Demodex mites found on 100% of lashes with collarettes²
- Collarettes found in ~ 58% eye care patients³





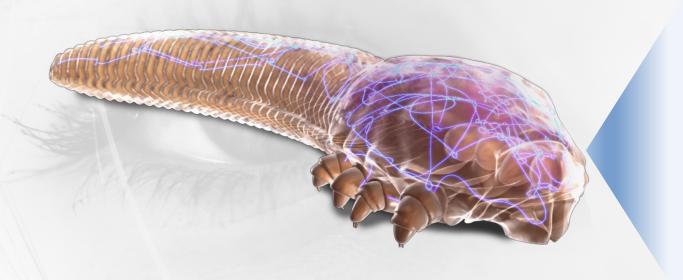
¹ Fromstein 2018

^{2.} Gao et al., Invst Ophth and Vis Sci, September 2005, Vol. 46, No. 3089-3094

^{3.} Tarsus Collarette Prevalence Study

TP-03 is a Novel Therapeutic Designed to Eradicate Demodex Mites and Treat Demodex Blepharitis

TP-03 is designed to paralyze the mite nervous system through parasite-specific GABA inhibition



Lotilaner

- Potent non-competitive antagonist of insect and arachnid GABA-Cl channels
- Highly lipophilic molecule, which may promote its uptake in the oily sebum of the hair follicle, where the mites reside
- Tarsus has licensed worldwide rights to lotilaner for all human uses

TP-03 is a Novel Drug Designed to Treat Demodex Blepharitis by Eradicating Mites and Collarettes¹



Product Form

Multi-dose eye drop solution bottle, preserved



Targeted Use

Treatment of Demodex blepharitis



MOA

Paralysis and death of Demodex mites



Diagnosis

Collarettes identified in standard eye examination



Dosing

BID* for 6 weeks



Efficacy Goal

1º collarette cure rate, 2º mite eradication, 2º redness + collarette cure rate



Safety Goal

Well-tolerated safety profile



TP-03 Product profile based on Saturn-1 Trial Design
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Extensive Clinical Trial Program for TP-03

Trial / Study	Design	Endpoints	Results Achieved		Status
PoC: Mercury	Ex-vivo mite testing on 80 mites	Ex-vivo mite death count	100% mites dead within 24 hours (p < 0.001)		\otimes
Clinical Trials			Collarette Cure Rate**	Mite Eradication Rate	
P2a: Mars *	28-day BID dosing, single arm (n=15) Pilot formulation	Collarette grade Mite density Safety	86% at 28 days (p < 0.05)	57% at 28 days (p < 0.05)	\odot
P2b: Jupiter *	28-day BID dosing, randomized 1:1 (n=60) Pilot formulation	1º – Mite density Safety 2º – Collarette grade	88% at 28 days (p < 0.001)	67% at 28 days (p < 0.005)	Ø
P2a: lo **	42-day BID dosing, single arm (n=18) Current formulation	1º – Collarette cure rate 2º - Mite eradication Safety	72% at 42 days (p < 0.05)	78% at 42 days (p < 0.05)	0
P2b: Europa **	42-day BID dosing, randomized 1:1 (n=54) Current formulation	1º – Collarette cure rate 2º – Mite eradication 2º – Redness Composite Safety	80% at 42 days (p < 0.001)	73% at 42 days (p = 0.003)	0
P2b/3: Saturn-1 ** †	42-day BID dosing, randomized 1:1 (n≥350) Current formulation	1º – Collarette cure rate 2º – Mite eradication 2º – Redness Composite Safety	Trial initiated in S	September 2020	
P3: Saturn-2 ** ††	42-day BID dosing, randomized 1:1 (n=350) Current formulation	1º – Collarette cure rate 2º – Mite eradication 2º – Redness Composite Safety	Initiate trial in 2021		

^{*} The Mars and Jupiter trials used collarette grade as an endpoint, which has been translated into a collarette cure (defined as <10 collarettes). This is different from the collarette cure (defined as ≤2 collarettes) endpoint used in lo, Europa, Saturn-1 and the planned Saturn-2 trials. The Mars and Jupiter trials also used mite density as an endpoint, which is different from mite eradication. Mite density is translated into mite eradication, which is defined as zero mites per lash consistently throughout trials.

** Primary endpoint in lo, Europa, Saturn-1 and intended in Saturn-2 is collarette cure based on collarette grade.

^{††}Saturn-2 design is highly comparable to that of Saturn-1 with respect to which the FDA raised no-objection and we expect to update the IND protocol prior to commencing Saturn-2.

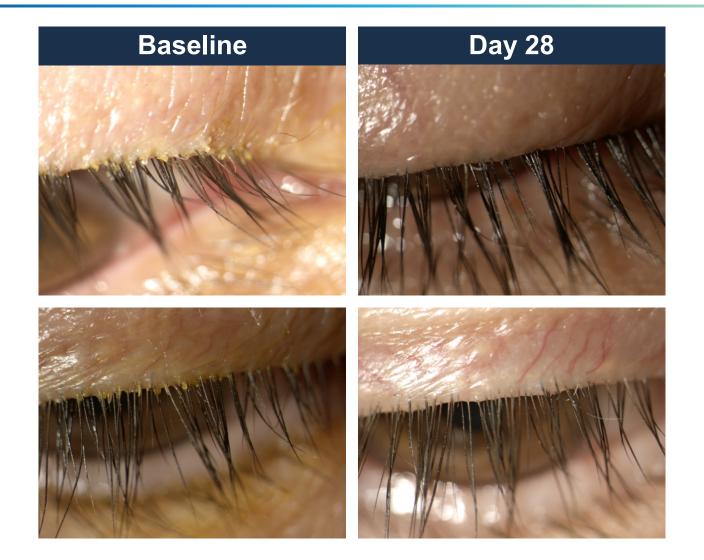


Same formulation of TP-03 as expected in the Saturn trials



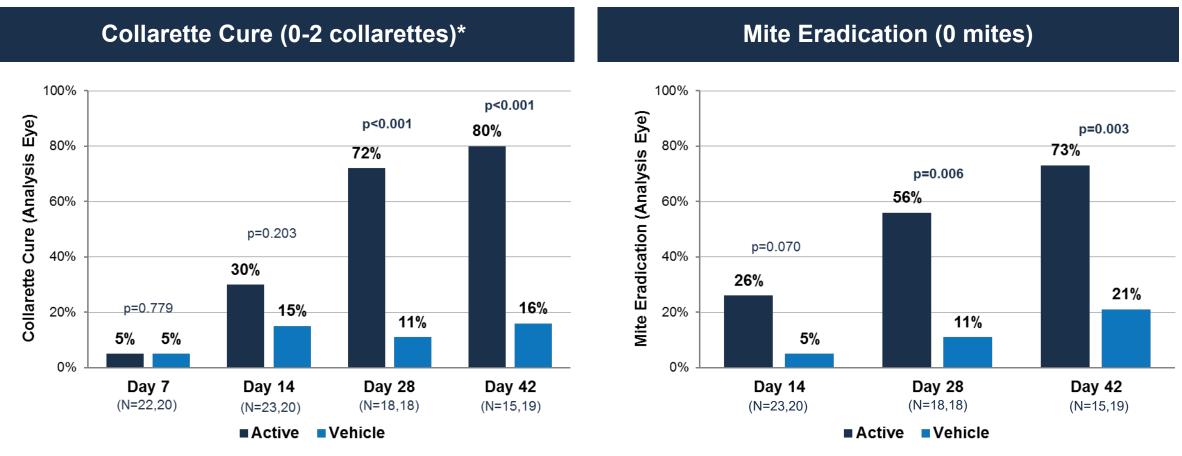
[†] In connection with our IND application, a "no-objection" letter was received from the FDA regarding the trial design of the Saturn-1 trial.

Cure of Collarettes with BID Use of TP-03



Europa Phase 2b: Results Consistent with Jupiter Trial

Primary and secondary efficacy endpoints same as Saturn-1 trial

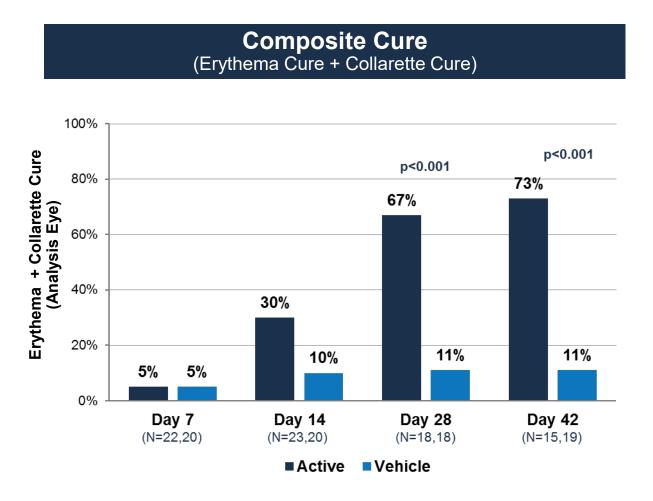


^{*} The primary efficacy endpoint was the proportion of patients experiencing a cure based on collarette grade of two or fewer collarettes on the eyelid, or collarette cure, as compared to the vehicle control, at day 42.



Europa Phase 2b: Statistically Significant Composite Cure Rate

Lid erythema cure + collarette cure, FDA-requested additional secondary endpoint

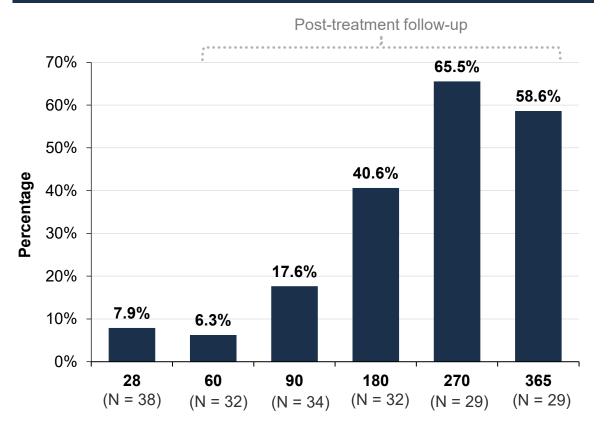


TP-03 Phase 2 Clinical Data Show Recurrence Rate of Clinical-Grade Demodex Blepharitis Post-Treatment

Post treatment data from Mars & Jupiter trials show recurrence of both collarettes & mite density

>10 Collarettes on Lid Post-treatment follow-up 70% 60% 48.3% 50% 41.4% Percentage 40% 30% 20% 13.2% 12.5% 11.8% 9.4% 10% 0% 28 60 90 180 270 365 (N = 38)(N = 32)(N = 34)(N = 32)(N = 29)(N = 29)

Mite Density of 1.0 or More



Data account for presence of collarettes or mites on either eye, (upper eyelid for collarette score)

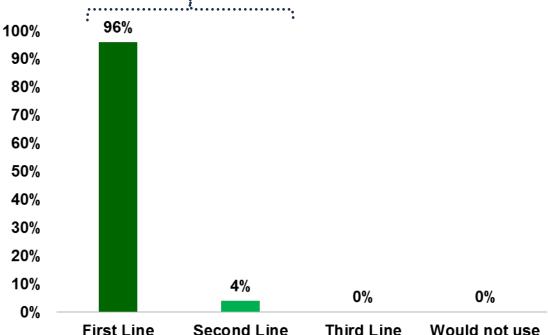


Market Research Shows Positive Reaction from Providers and **Patients**

After exposure to information on collarettes, Demodex blepharitis and TP-03 Phase 2 data

Clinician Prescribing Intention

100% of ECPs indicated would prescribe 1L or 2L for Demodex blepharitis 96%



N = 50 eye care providers (25 MDs, 25 ODs) Market research sponsored by Tarsus © Tarsus Pharmaceuticals: Confidential & Proprietary

Patient Intention to Seek a Doctor

92% of blepharitis patients indicated would likely seek a doctor and ask about TP-03 70% 60% 50% 40% 30%

20% 10% 0% May or Definitely Definitely May Not Would Would Not N = 50 blepharitis patients



TP-03 has Significant Market Potential in Demodex Blepharitis

Opportunity comparable to established ophthalmic therapeutics

Large addressable patient population

- High prevalence of an estimated 25 million patients and untapped educational opportunity similar to Dry Eye*
- 2.1 million current ICD-10 blepharitis diagnoses per year in U.S. (estimated 45% of these with Demodex infestation)
- Besides blepharitis, patients commonly present at ECPs with other conditions such as dry eye, cataracts, and contact lens discomfort

ECPs are generally believed to be comfortable treating ocular surface disease and respond to marketing education

- 25k active prescribers
- We have observed a significant willingness to prescribe by ECPs

Potential for favorable reimbursement

- Potential to be the first approved prescription treatment for Demodex blepharitis, strong and <u>predictable</u> outcomes drive value for payers
- · We believe a novel treatment will drive compelling pricing and modest discounts

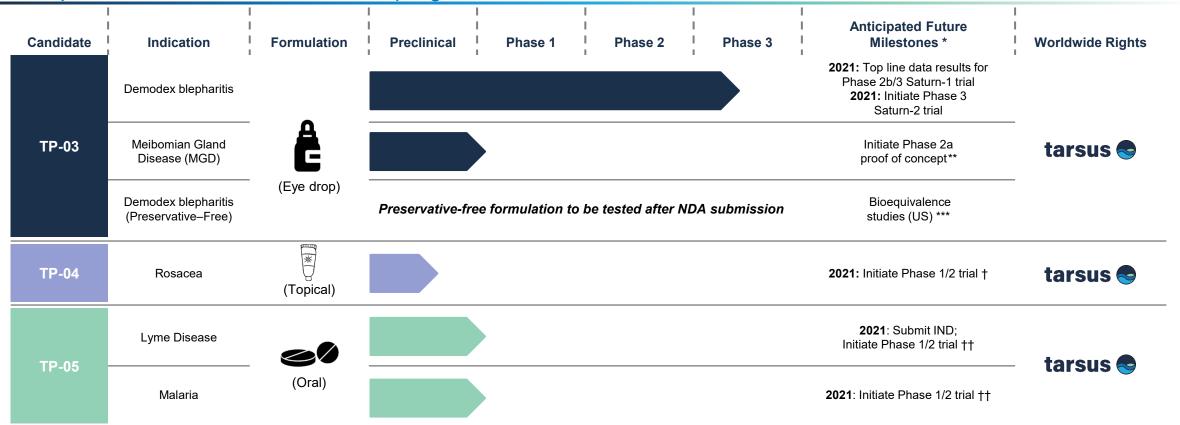
We Believe There are 3 Keys to Success

- 1. Educate ECPs about the prevalence of Demodex blepharitis and the safety and efficacy of our products
- 2. Highlight prevalence, impact, and simplicity of diagnosis of Demodex blepharitis
- 3. Patient focused education and marketing that increases awareness and patient identification



Pipeline with Different Formulations of Novel API

Anticipated clinical trial events in our programs in 2021



^{*} Anticipated milestones are subject to the impact of the ongoing COVID-19 pandemic on our business and those of our partners.

^{**} We intend to rely on preclinical studies and clinical safety assessments from the Demodex blepharitis program. We have not conducted and do not intend to conduct any preclinical studies with TP-03 for the treatment of MGD in order to advance to Phase 2a.

^{***} We intend to leverage all preclinical, Phase 2 and Phase 3 data from the TP-03 Demodex blepharitis program. We intend to conduct *in vitro* or *in vivo* bioequivalence studies with our preservative-free formulation to compare it to the current preserved formulation of TP-03 in Demodex blepharitis after NDA submission and file a supplement.

[†] We intend to leverage systemic preclinical data from our TP-03 program and augment with additional dermal preclinical studies to select formulation in order to advance to Phase 1/2, which we intend to conduct outside the United States. We may need to address this approach with the FDA if we were to conduct a clinical trial in the United States. We have not conducted any preclinical studies in rosacea with TP-04 to date.

^{††} In relation to Lyme disease and malaria, we intend to leverage oral systemic preclinical data from our TP-03 program as well as third-party oral systemic preclinical studies for Lyme disease or community malaria reduction, respectively (and will not conduct our own preclinical studies for Lyme disease and malaria). The formulations used in preclinical studies use the common approach of a gavage that is scaled as appropriate for use in animals. However, human administration, while continuing to be oral, will take the form of a tablet or capsule. Subject to FDA feedback from our planned pre-IND meeting, we intend to conduct Phase 1/2 trials in these indications based on these preclinical studies. In relation to malaria, we may conduct our Phase 1/2 trial outside the United States. While we plan to discuss this approach for Lyme disease in a planned pre-IND meeting with the FDA, the FDA may reject our use of data from these preclinical studies and require us to conduct additional preclinical studies before advancing to clinical trials, which may delay our expected timelines for approval and increase costs.

Tarsus Summary

- TP-03 is a novel therapeutic with potential to be the first FDA-approved therapeutic and the standard of care for the treatment of Demodex blepharitis
- Clinical efficacy and safety endpoints consistently achieved across multiple Phase 2 studies
- Phase 2b/3 Saturn-1 currently enrolling and treating patients, topline expected in 2021, followed by initiation of Phase 3 Saturn-2 trial in 2021¹
- Clinical stage pipeline with potential applications to other indications in MGD, rosacea,
 Lyme disease, and malaria
- Multiple clinical events anticipated in 2021



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