

Ophthalmology: Our Singular Focus

Akira Kurokawa President & CEO, Santen Pharmaceutical Co., Ltd. J.P. Morgan Healthcare Conference January 9, 2017

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- Business performance and financial condition are subject to the effects of medical regulatory changes made by the governments of Japan and other nations concerning medical insurance, drug pricing and other systems, and to fluctuations in market variables such as interest rates and foreign exchange rates.
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 compounds are subject to a multitude of uncertainties, including the termination of clinical development at various stages and the nonapproval of products after a regulatory filing has been submitted. Forecasts and projections concerning new products take into account
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By focusing on ophthalmology, Santen develops unique scientific knowledge and organizational capabilities that contribute to the well-being of patients, their loved ones and consequently to society.



Growing ophthalmology market

Specialized in ophthalmology

Santen's growth strategy

Pursuing unmet medical needs in ophthalmology

Expanding global partnership alliances

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Santen's growth strategy

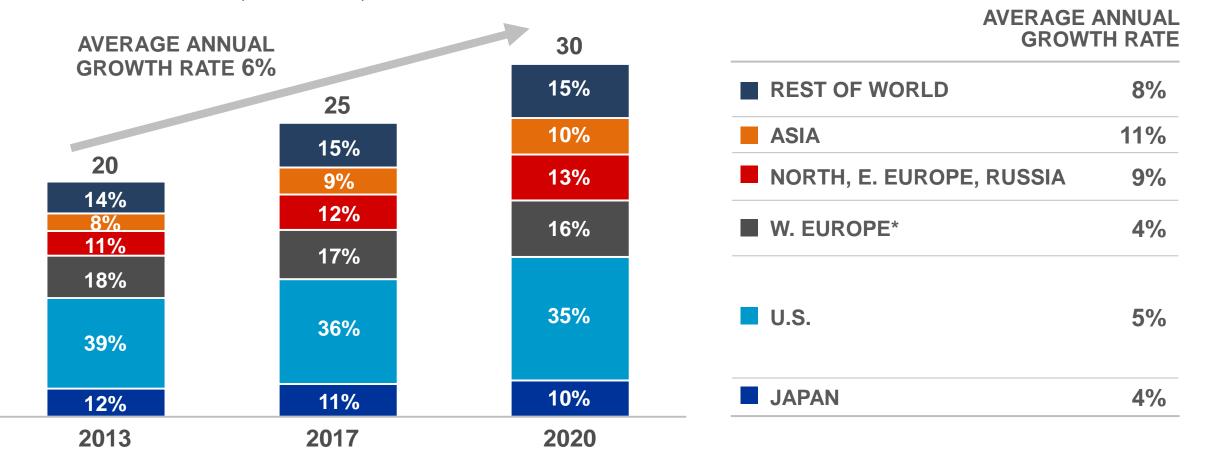
Pursuing unmet medical needs in ophthalmology

Expanding global partnership alliances



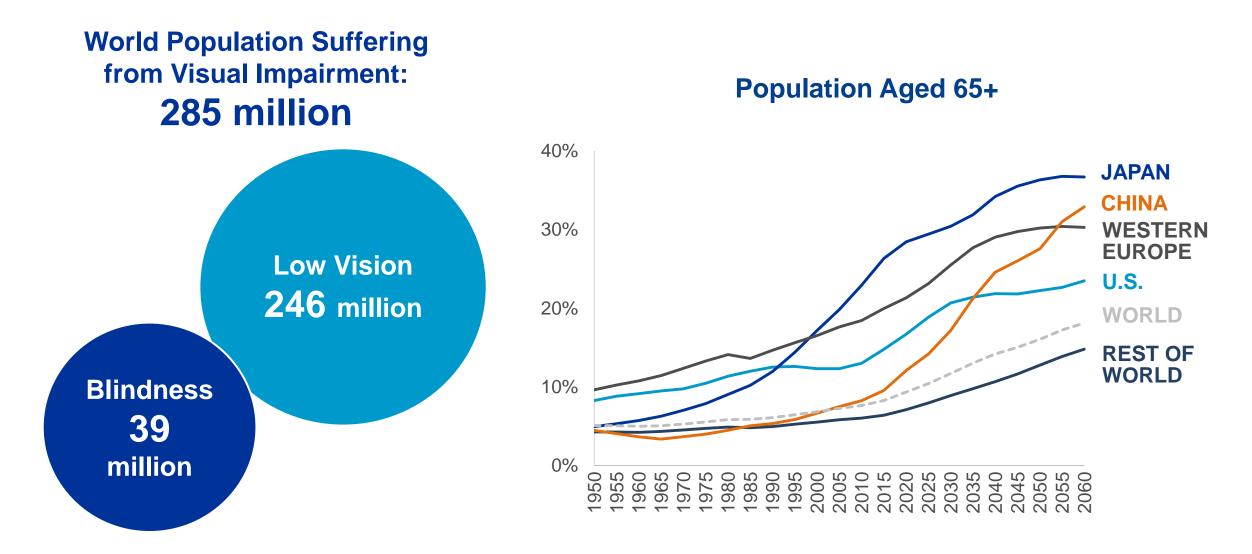


(USD billions)





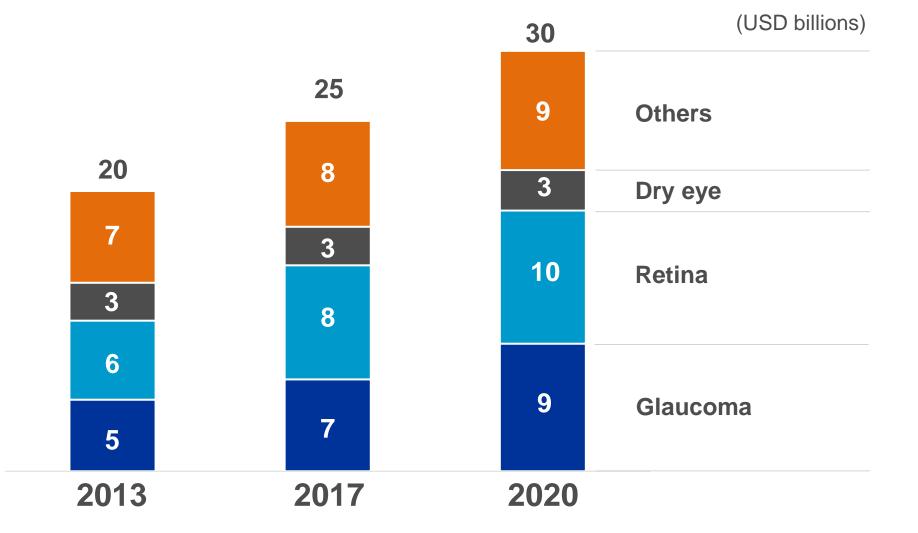
Vision Problems Expected to Increase as World Populations Age





Santen is Focused on the High Growth Areas: Dry Eye, Glaucoma and Retina

Global Market Forecast by Disease Category





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Covering All Ophthalmic Therapeutic Areas

Santen provides total solutions in ophthalmic therapeutic areas to improve of quality of life

Company	Retina	Glaucoma	Dry eye	Infection	Allergy	Cataract
Santen	 Image: A start of the start of		√	✓	1	✓
Alcon/Novartis	√	✓	\checkmark	√	\checkmark	√
B&L/Valeant	 Image: A start of the start of		\checkmark	✓	 Image: A second s	✓
Allergan	 Image: A start of the start of		\checkmark	✓	 Image: A second s	
Pfizer	 Image: A second s					
Genentech	 Image: A second s					
Regeneron/Bayer	1					
Abbott/Solvay	 Image: A second s		\checkmark			√
Sanofi	1				\checkmark	



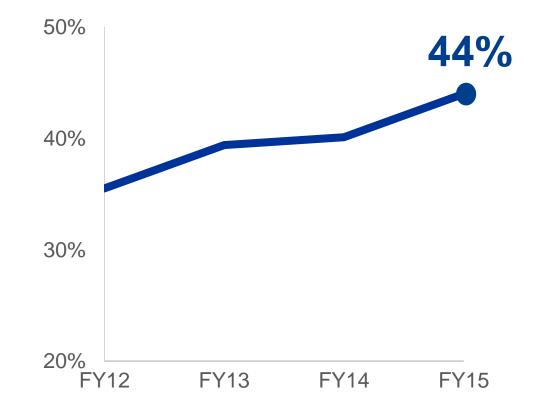
Customer Satisfaction Leadership – Santen is Transferring This Strength Beyond Asia to EMEA

Customer Satisfaction in Japan and Asia

(Percentage of Doctors Evaluating Santen as #1 or #2)

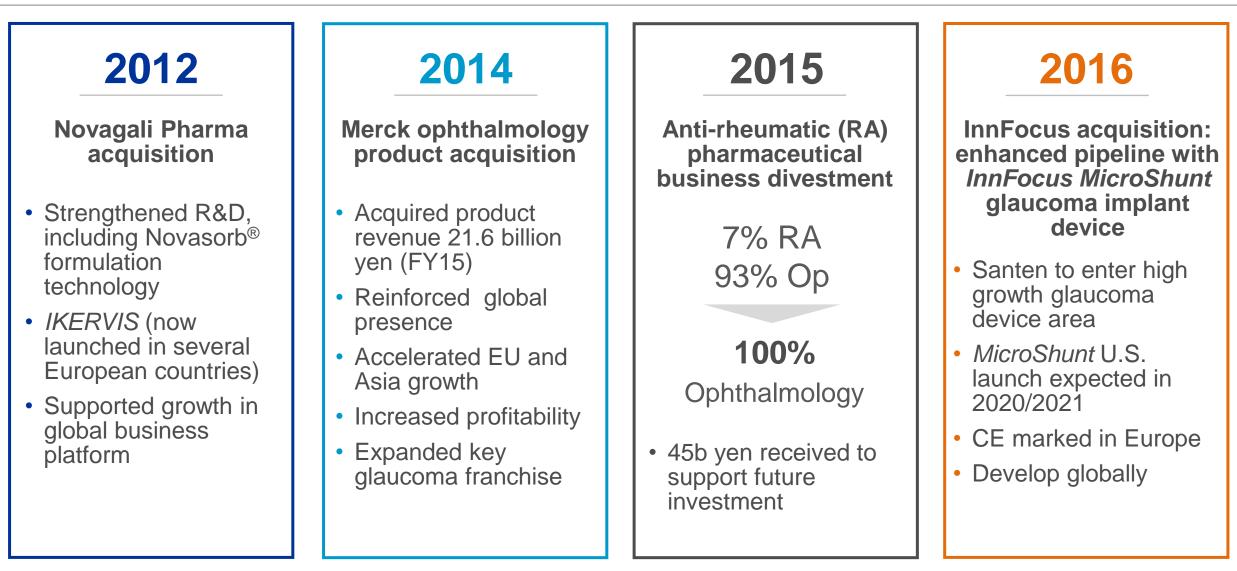
80% Japan 70% China 70% Thailand 60% Korea 50% Singapore

Market Share Leader in Japan



Santen

In Addition to Organic Growth, Santen Is Proceeding with Further Ophthalmology Specialization with Maximum Business Synergy





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Establishing a Global Presence as a Specialized Pharmaceutical Company

Global Top 3

(() #1 in Asia by 2020

Maximize new product value globally

Establish and reinforce overseas business platforms

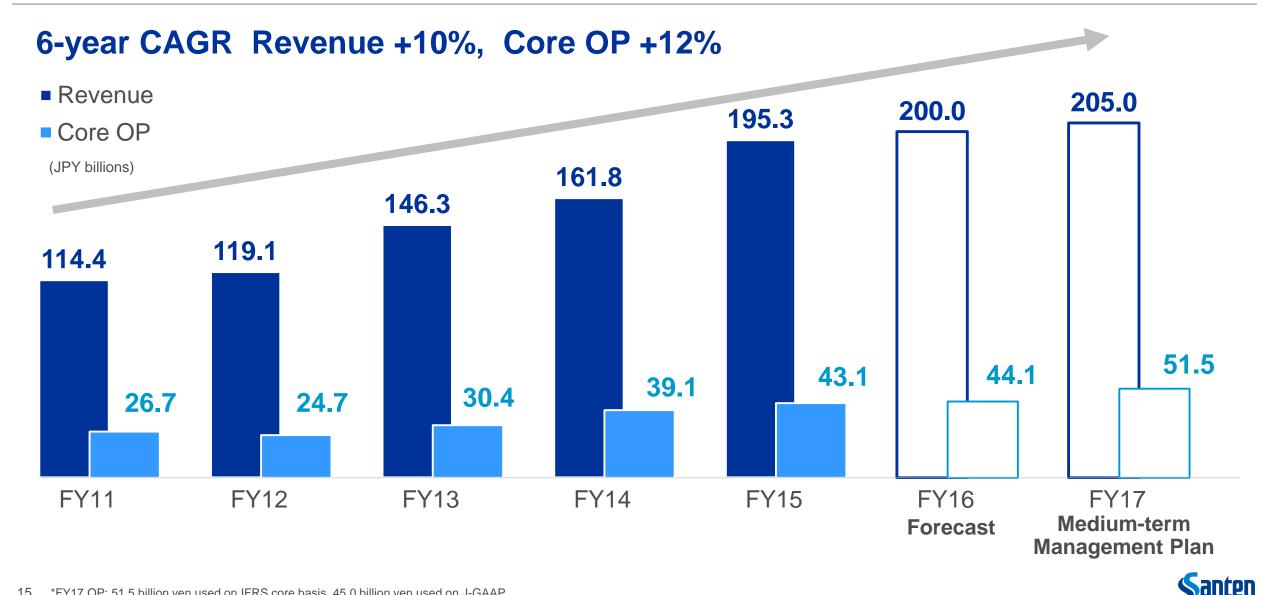
Strengthen domestic business platform and competitiveness

2020

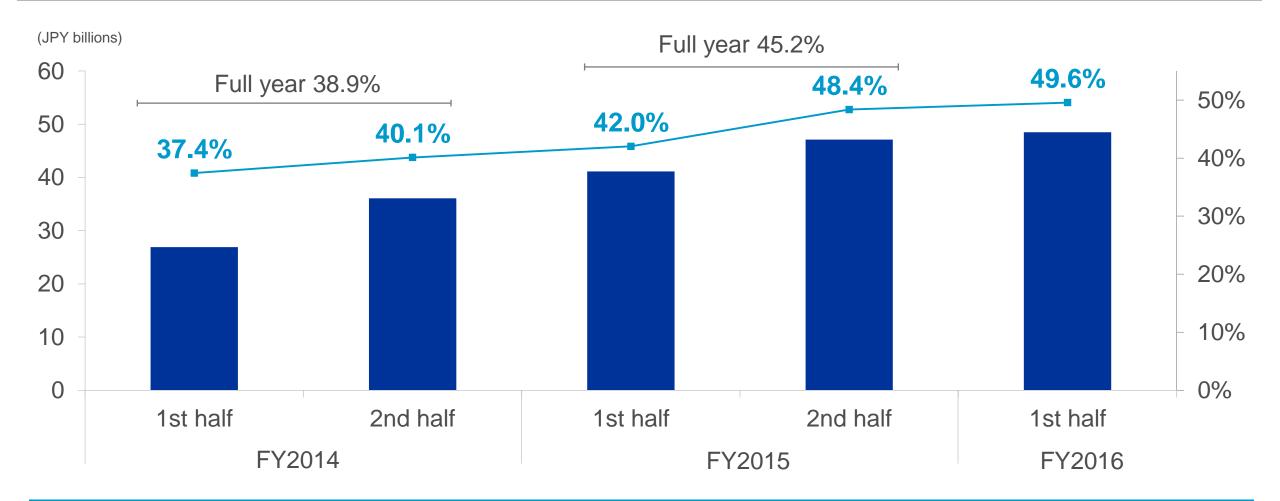


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Steady Earnings Growth with Ophthalmology Specialization



Steady Growth New Global Products As We Seek Total Ophthalmic Solutions



NEW PRODUCTS: Cosopt, Tapros, Tapcom, Diquas, Ikervis, Alesion, Eylea



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Steady Pipeline Launches Will Meet Unmet Medical Needs

Domain	Launched in FY2011-2013	To be Approved in FY2014-2017	To be Approved FY2018 Onward
			DE-117 (omidenepag isopropyl)
Glaucoma	Tapros Mini	DE-111 (tafluprost/timolol combination)	DE-126 (sepetaprost)
		(tanuprostrumoior combination)	DE-128 (MicroShunt) US
Corneal and Conjunctival Disease (Dry Eye)		<i>Ikervis</i> (ciclosporin)	
Retinal Disease, Uveitis			DE-109 (sirolimus injection)
	Eylea		DE-120 (VEGF/PDGF inhibitor)
			DE-122 (Anti-endoglin antibody)
Other Infection, Allergy	Alesion		
	Cravit 1.5%	Vekacia (ciclosporin)	

Global Product

Japan (Asia) Product

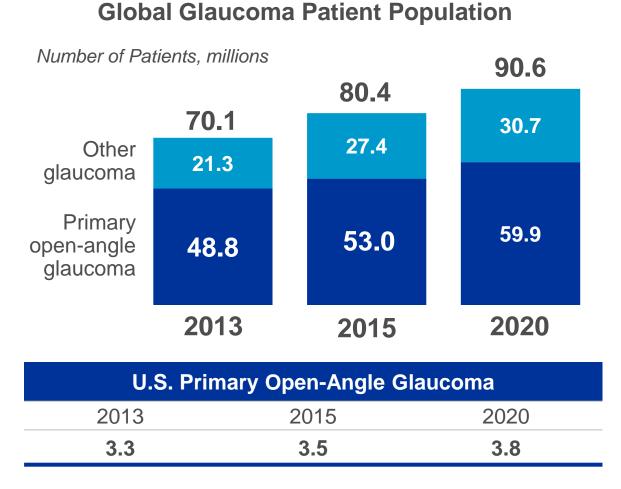
Santen

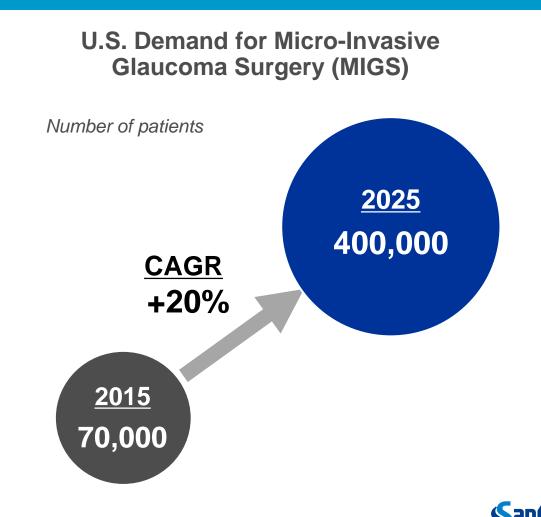
*Excluding GE products. With regard to LCM products, those products to be launched in multiple regions are included.

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Glaucoma Market is Growing

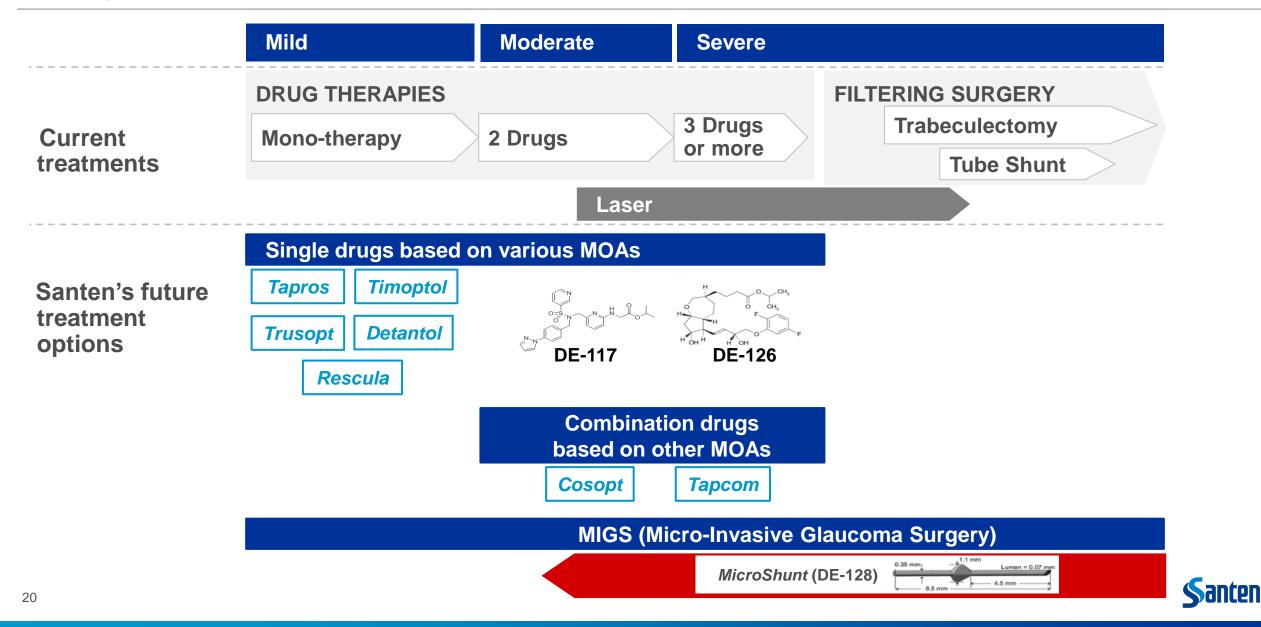
Blindness from open-angle glaucoma forecast to reach 5.9 million people globally by 2020



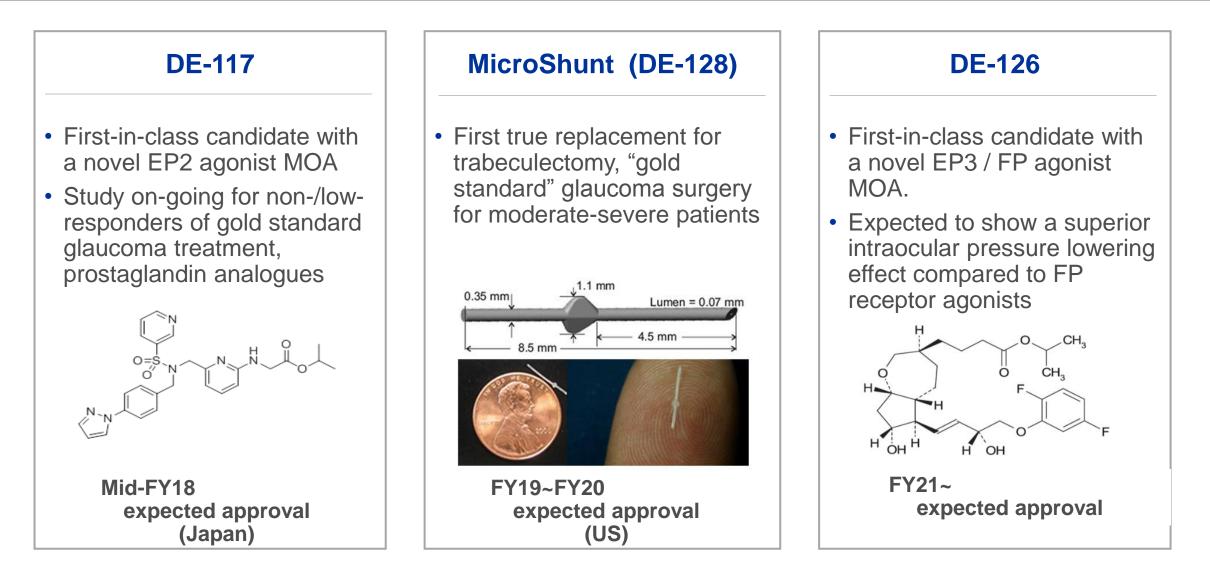


19 Sources: Market Scope, *Br J Ophthalmol.* 2006 Mar; 90(3): 262–267., Santen estimates

Santen's Glaucoma Portfolio is Positioning to Address All Stages of Glaucoma



Santen Glaucoma Pipeline: Building A Powerful Glaucoma Treatment Franchise





DE-128 *MicroShunt*: Less Invasive and Greater Adherence

DE-128 is being developed to address unmet needs compared to existing treatment options

Unmet needs of current treatments

- Compliance/Adherence issue of drug treatment/Lack of sustained efficacy of laser
- Invasiveness and post-op complications of trabeculectomy

MicroShunt

- One surgery to achieve mean IOP 11.1mmHg after 3 years, 49% reduction from baseline
- Procedure similar, but simplified compared to trabeculectomy
- Adverse effects observed comparable or less than other surgical procedures and devices reported in the literature

Planning, if approved, full-scale launch in the U.S. in 2020/2021

Annual peak revenue potential estimated at over \$200 million



Please click here for animated video of surgical procedure

(Video is 1 minute 31 seconds and contains no audio)



DE-109: Candidate for Unmet Medical Need of Uveitis

Highlight on Sirolimus Injection (DE-109)				
SAKURA Phase III Program completed, topline results announced Nov 2016	Included one large pivotal trial (SAKURA 1), one supportive trial (SAKURA 2), and ongoing long-term safety extension trial (SPRING); designed to confirm dose with the optimal benefit-risk profile			

NDA submission to the FDA (US) planned in fiscal Q4 (Jan–Mar); submission to EMA (Europe) later in 2017

If approved, launch in U.S. planned for first half of 2018 and peak sales potential estimated at over 10 billion yen

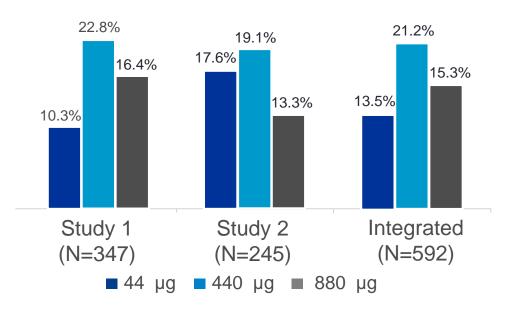


DE-109: Candidate for Unmet Medical Need of Uveitis

SAKURA Program Supports Benefit-Risk Profile of Sirolimus Injection, with 440 µg as Optimal Dose for Treatment of Non-Infectious Uveitis of Posterior Segment

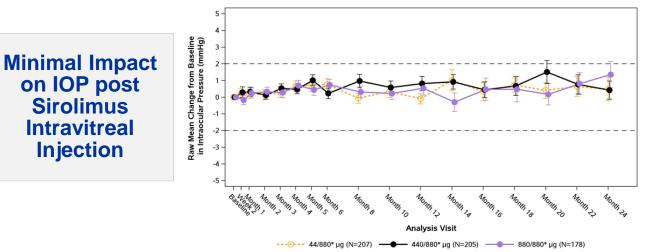
VH 0 Response, Intent to Treat (ITT) Population P-value (440 µg vs. 44 µg)

P = 0.010 P = 0.783 P = 0.038



Reduction or Elimination of Corticosteroids (≤5 mg/day)

Tapering of Corticosteroid for Intent-to-Taper Patients	44 μg N=32	440 μg N=46	880 μg N=32
Baseline mean dose, mg/day	24.2	26.2	20.74
Tapering success (n)	(22) 68.8%	(32) 69.6%	(22) 68.8%
Tapering success and VH 0/0.5+ (n)	(9) 40.9%	(20) 62.5%	(10) 45.5%



25 Results of SAKURA study 1 was reported on Ophthalmology. 2016 Nov;123(11):2413-2423

*Patients received 44, 440 or 880 μg double-masked dose for the first six months, and then all patients received 880 μg open-labeled dose.



Pipeline Development: To Quickly Deliver Important Ophthalmic Treatment Solutions

DE-117	Q2/Q3 FY2017 Filing in Japan		
DE-126	FY2016 P2b Start		
DE-109 (<i>OPSIRIA</i>)	Jan-Mar 2017 Filing in US	Jan-Jun 2018 Launch in US	
	Calendar 2017 Re-filing in EU (After filing in US)		
DE-120	FY2016 P2a Completion		
DE-122	FY2017 P1/2 Completion		
DE-128 (<i>MicroShunt</i>)	Calendar 2018-2019 P2/3 Completion	Calendar 2020-2021 Launch in US	



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To Meet Unmet Medical Needs, Expanding Global Partnership Alliances



- Specialized in ophthalmology
- Pursuing unmet medical needs
- Building high customer satisfaction with customer-oriented strategy
- Steadily growing earnings driven by global new products
- Enjoying high market share in Japan and continuing to grow in Europe and Asia

- Preparing for business expansion in the U.S and other regions
- Developing treatments for all stages of glaucoma in our substantial and high-growth franchise
- Expecting to file drug candidates DE-117 and DE-109 to government agencies in 2017
- Building partnerships with leading companies and institutions worldwide





For Reference: SAKURA Development Program

Sirolimus injection study Assessing double-masKed Uveitis tReAtment (SAKURA)

Phase 3, Multicenter, Randomized, Double-Masked Study Assessing the Safety and Efficacy of Intravitreal Injections of DE-109 (Sirolimus Injection, 3 Doses) for Treatment of Non-infectious Uveitis of the Posterior Segment

Objective		440 μ g and 880 μ g sirolimus vs. active comparator (44 μ g) fo	
-	 the treatment of non-infectious uveitis of the posterior segn Diagnosis of active NIU of the posterior segment 	ient	
Principal Eligibility Criteria	 VH score >1+ (study eye, modified SUN scale) BCVA: ≥19 ETDRS letters or 20/400 (study eye); Vision ≥20/200 (fellow eye) 		
Study Design	Randomized in 1:1:1 ratio to receive 44 µg (active control), total of three doses; safety follow up for up to 24 months	440 μ g, or 880 μ g by intravitreal injection for 2 months for a	
Primary Endpoint	Vitreous Haze Score = 0 at Month 5		
Clinical Sites	Largest global clinical program in NIU-PS: 103 sites in 15 o Japan	countries across the US, EMEA, India, Latin America, and	
	STUDY 1	STUDY 2	
Patients (N)	347	245	
Timing	Subjects enrolled through March 31, 2013, completed October 2013	Subjects enrolled on or after April 1, 2013, completed October 2016	

