

Interim Analysis of the Portal Extension Trial Evaluating the Long-term Safety and Efficacy of the Port Delivery System With Ranibizumab (PDS) in Neovascular Age-Related Macular Degeneration (nAMD)

Purpose

- To evaluate the long-term safety and efficacy of the Port Delivery System with ranibizumab (PDS) in patients with neovascular age-related macular degeneration (nAMD)
- To describe the key steps in the PDS implant insertion and refill-exchange procedures for maximizing successful patient outcomes

Introduction

- The PDS is an innovative drug delivery system for the continuous delivery of a customized formulation of ranibizumab into the vitreous
- It is approved by the US Food and Drug Administration (FDA) for the treatment of nAMD in adults who have previously responded to ≥ 2 anti-vascular endot growth factor (VEGF) injections
- The Portal extension trial (NCT03683251) is evaluating long-term safety and efficacy of the PDS with ranibizumab 100 mg/mL (PDS 100 mg/mL) in patients with nAMD who completed the Ladder (NCT02510794) or Archwar (NCT03677934) trials, and will evaluate PDS 100 mg/mL in patients who participate in the Velodrome (NCT04657289) trial (currently enrolling)

Methods

- In Ladder, patients received PDS (10, 40, or 100 mg/mL) with pro re nata (PRN) refills, or monthly intravitreal ranibizumab 0.5 mg iniections (monthly ranibizumab
- In Archway, patients received PDS 100 mg/mL with fixed refill-exchanges every 24 weeks (PDS Q24W) or monthly ranibizumab (every 4 weeks

e -60

nultiplicity-adjusted 95% Cls

1. Ladder to Portal: PDS Q24W Maintained Vision Through Month 48



BCVA, best-corrected visual acuity: PDS, Port Delivery System with ranibizumab; PRN, pro re nata; Q24W, every 24 weeks

4. Ocular AESIs^a Through an Average of 111 Weeks of Follow-Up (All-PDS Safety Population)

 MedDRA Preferred Term⁵	All-PDS Population ^c (March 2021 CCOD; n = 555)	
	Patients With AESIs	Patients With AESIs Reported as Serious
Overall number of AESIs	233	42
Total number of patients with ≥ 1 AESI, n (%)	137 (24.7)	29 (5.2)
Endophthalmitis ^d	11 (2.0)	10 (1.8)
Implant dislocation	6 (1.1)	4 (0.7)
Vitreous hemorrhage	34 (6.1)	4 (0.7)
Rhegmatogenous retinal detachment	4 (0.7)	3 (0.5)
Conjunctival erosion	22 (4.0)	7 (1.3)
Conjunctival retraction	10 (1.8)	5 (0.9)
Conjunctival bleb/conjunctival filtering bleb leak	35 (6.3)	2 (0.4)
Hyphema	9 (1.6)	0
Cataracte	63 (11.4)	2 (0.4)
Septum dislodgement ^f	12 (2.2) ^g	-
There were no cases of septum dislodgement in the Poi conducted February 2022, out of ~1195 PDS implan	rtal March 2021 CCOD (presented here). In an ts inserted and 4009 refill-exchange procedur	updated analysis of safety data across all PDS trians, 14 cases of septum dislodgement ^f have been

Ladder, NCT02510794; Archway, NCT03677934; Portal, NCT03683251. Safety population; March 2021 CCOD. a Ocular AESIs potentially related to the PDS implant or implant insertion procedure. b Frequency counts by Preferred Term. Multiple occurrences of the same AE in an individual are counted only once for each column. c Includes patients originally receiving PDS 10/40 mg/mL who did not enroll in Portal and AEs for all PDS patients from time from implant insertion procedure. ^d The US Food and Drug Administration has issued a boxed warning for the PDS because it has been associated with a 3-fold higher rate of endophthalmitis compared with monthly intravitreal injections of ranibizumab.1 e Includes the following terms: cataract, cataract nuclear, cataract cortical, and cataract subcapsular. f Not a prespecified AESI. 9 Reported in the Pagoda trial (NCT04108156) of PDS Q24W in patients with DME. AE, adverse event; AESI, adverse event of special interest; CCOD, clinical cutoff date; DME, diabetic macular edema; MedDRA, Medical Dictionary for Regulatory Activities; nAMD, neovascular age-related macular degeneration; PDS, Port Delivery System with ranibizumab; Q24W, every 24 weeks.



References

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- Once moved to Portal, patients receive PDS Q24W from day 1
- Efficacy outcomes were assessed for Ladder-to-Portal patients treated with prior PDS 100 mg/mL PRN or prior monthly ranibizuma Long-term safety was analyzed using pooled data from all patients who received the PDS implant^a in Ladder, Archway, or Portal,
- regardless of PDS dose (10, 40, or 100 mg/mL; all-PDS safety population), with up to ~5 years of follow-up
- Mean (range) follow-up: 111 weeks (2.13 years [0.1–248.4 weeks])
- Please see supplementary materials for study design
 - on procedure based on the Instructions for Use version published from May 2016

2. Ladder to Portal: CPT Maintained From Baseline Through Month 48



CFT, central foveal thickness; CPT, center point thickness; PDS, Port Delivery System with ranibizumab; PED, pigment epithelial detachment; PRN, pro re nat

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Conclusions

- The efficacy and safety profiles of PDS 100 mg/mL were maintained over the longer term
- PDS 100 mg/mL demonstrated stable best-corrected visual acuity and center point thickness from Ladder baseline to Portal data cutoff (48 months from implant insertion procedure) - ~95% of PDS Q24W patients did not need supplemental ranibizumab treatment before each refill-exchange procedure
- The long-term ocular safety profile of PDS is well characterized, manageable, and generally unchanged from the registration trial (Archway) In PDS nAMD trials (Ladder, Archway, Portal), 2.0% of patients receiving a ranibizumab implant experienced ≥ 1 episode of
- endophthalmitis in data reported to March 2021¹
- Meticulous adherence to FDA-approved surgical and refill-exchange procedures is important for optimizing patient outcomes 92% of patients switching from intravitreal injections in Ladder to the PDS in Portal preferred treatment with the PDS



6. Refill-Exchange Procedure: Meticulous Adherence to FDA-Approved Instructions for Use Is Important for Successful Outcomes



1. Susvimo [prescribing information]. South San Francisco, CA: Genentech, Inc.; 2021. 2. Khanani AM et al; Ladder Investigators. Ophthalmol Retina. 2021;5(8):775-787.

Financial Disclosures

• SH: Consultant: Genentech, Inc. • NC, SDG, SLP, MR, RS, GB: Employee Genentech. Inc.

Study and Product Disclosures

- The Port Delivery System with ranibizumab (PDS) has been approved by the US Food and Drug Admin for the treatment of nAMD in adults who have previously responded to ≥ 2 anti-VEGF injections. Please note that the PDS has not been approved for use outside of the United States
- The US Food and Drug Administration has issued a **boxed warning** for the PDS because it has been asso with a 3-fold higher rate of endophthalmitis compared with monthly intravitreal injections of ranibizumat

- This study includes research conducted on human subjects
- Institutional Review Board approval was obtained prior to study initiation Funding was provided by Genentech, Inc., a member of the Roche Group
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