BioCryst Pharmaceuticals, Inc.

Corporate Presentation

January 2025





Forward-looking statements

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BioCryst: durable, profitable growth through the decade with pipeline optionality





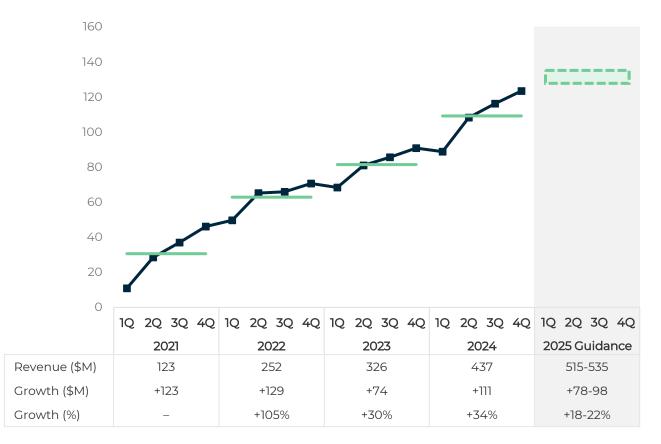
2024 highlights and 2025 outlook

COMMERCIAL EXCELLENCE	 2024 Results: \$437M global ORLADEYO[®] revenue (34% growth) and \$450M total revenue Over 1,200 US prescribers Commercially available in over 30 countries 			
CLINICAL PROGRESS	 ORLADEYO pediatric program on track for regulatory submission in 2025 BCX17725 (Netherton syndrome) and avoralstat (DME) advancing into patients in 2025 			
BUILDING SUSTAINABLE PROFITABILITY	 Achieved goal for full-year 2024 operating profit¹ On track for sustainable quarterly positive EPS and cash flow in 2H25 Revenue expected to grow at ~20% CAGR over next 3 years, vs. ~5% for operating expenses 			
2025 REVENUE GUIDANCE	 ORLADEYO: \$515-535M Total revenue: \$540-560M 			



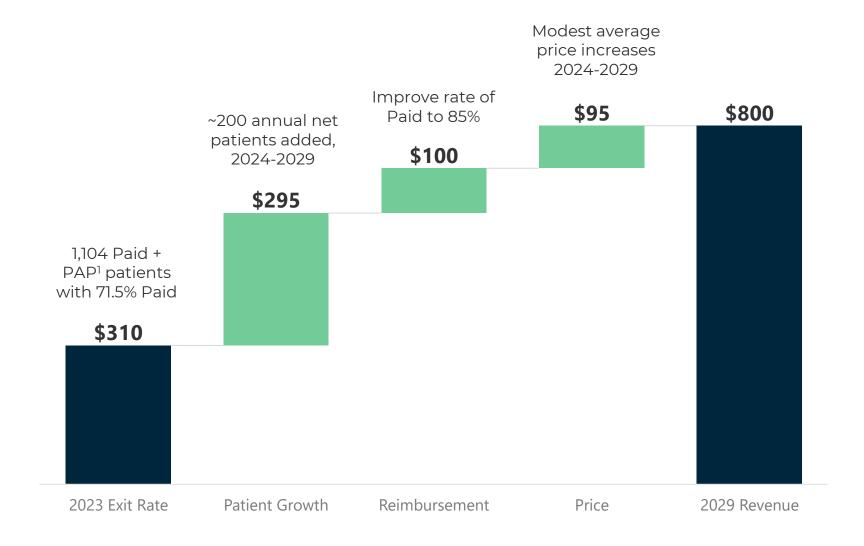
Strong ORLADEYO growth to continue in 2025

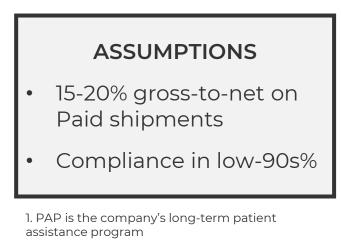
ORLADEYO REVENUE QUARTERLY & QUARTERLY AVERAGE BY YEAR (\$M)





Path to \$800M US revenue in 2029





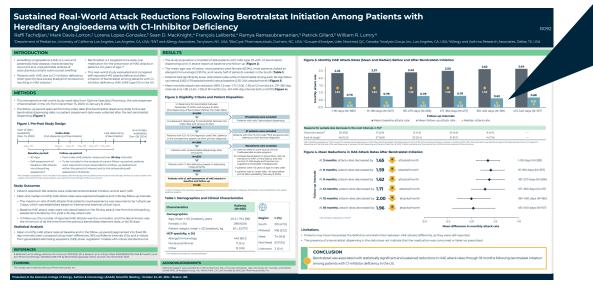


REAL WORLD EVIDENCE: patients with HAE Type 1 and 2 have significant and sustained attack reduction on ORLADEYO

 Median attack rate of 1/3rd of an attack per month in a study population of over 450 patients

MONTHLY HAE ATTACK RATES BEFORE AND AFTER BEROTRALSTAT INITIATION





- The primary reason for reduced patient counts over time was that patients had not been on ORLADEYO long enough to be evaluated at all time points
- Only 68 (14.6%) out of 466 patients in this study discontinued therapy

Source: Sustained Real-World Attack Reductions Following Berotralstat Initiation Among Patients with Hereditary Angioedema with C1-Inhibitor Deficiency *Presented at the ACAAI Scientific Meting 2024 · October 24-28, 2024*

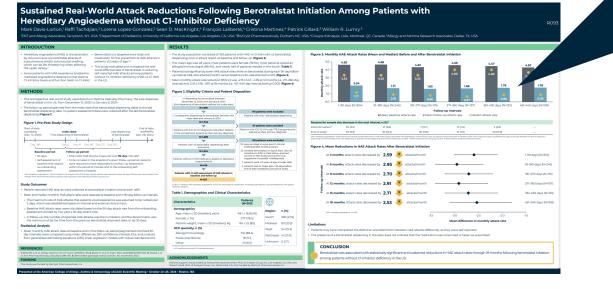


REAL WORLD EVIDENCE: patients with HAE-nl-C1-inh have significant and sustained attack reduction on ORLADEYO

- Median attack rate of <1 per month in study population of over 350 patients
- Excellent attack reduction and control for a population that has struggled to find effective therapy



MONTHLY HAE ATTACK RATES BEFORE AND AFTER BEROTRALSTAT INITIATION



- The primary reason for reduced patient counts over time was that patients had not been on ORLADEYO long enough to be evaluated at all time points
- Only 75 (21.2%) out of 353 patients in this study discontinued therapy

Source: Sustained Real-World Attack Reductions Following Berotralstat Initiation Among Patients with Hereditary Angioedema without C1-Inhibitor Deficiency *Presented at the ACAAI Scientific Meting 2024 · October 24-28, 2024*



Comprehensive annual research + market simulation

OUR MODEL STARTS WITH PREFERENCE AND SIMULATES 6,000 MARKET INTERACTIONS BETWEEN HCPS, PATIENTS, & PAYERS

Research Sample*

PATIENTS

n=100 HAE patients

Market Model Simulation (Monte Carlo)

- 1 A patient, physician, and payer are randomly selected from survey respondents.
- 2 The model evaluates individual prescribing decisions based on patient preference, physician preference & payer approval within a framework of market dynamics (e.g., awareness, adoption, launch timing)
- **3** For a single simulation run, the process is repeated 30 times for each patient category
- 4 The simulation is then repeated 50 times (6,000 interactions) to create a generalized distribution, then scaled and weighted to HAE total population

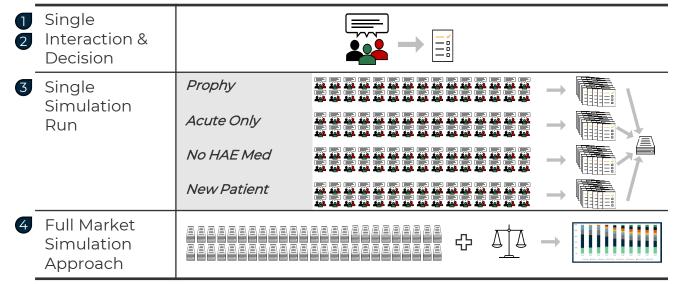
PHYSICIANS

n=56 decision makers covering over

n=100 Als**, and n=75 non-Als**

PAYERS

Modeling Process - Visual Example



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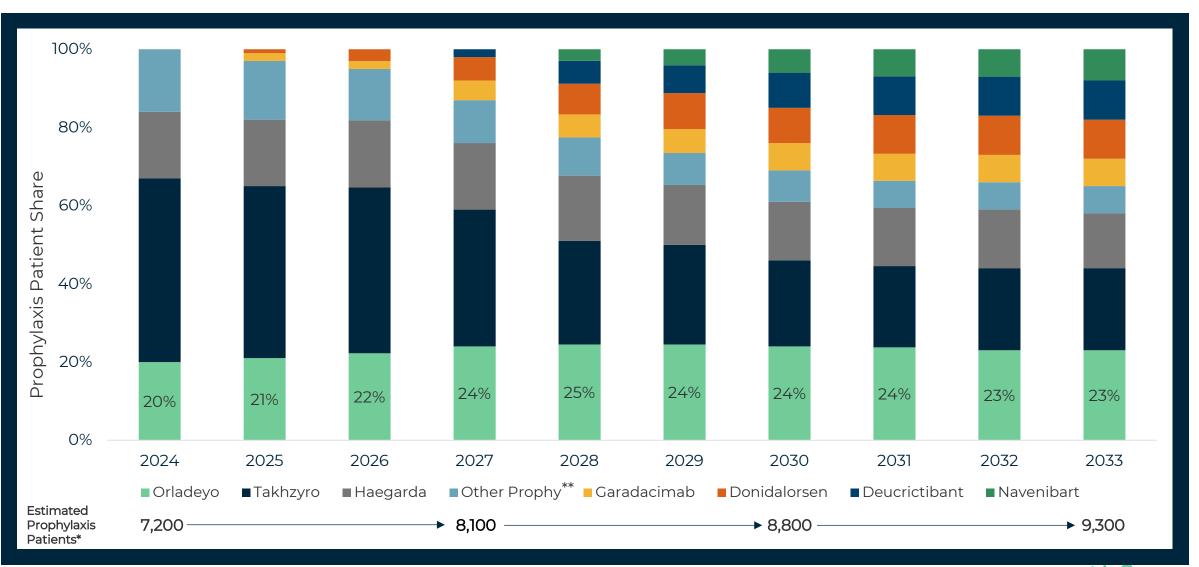
* Choice-based conjoint

200 million total lives.

** HAE treaters: Allergists & Immunologists

Monte Carlo simulation outcome: U.S. prophy market share

ORLADEYO REACHES A STEADY STATE OF OVER 2,000 PATIENTS IN U.S. DURING 2028, EVEN AS NEW PRODUCTS GAIN SHARE



Source: BioCryst Internal Market Research Study (Conducted Jun 2024) *Source: 2018-2023 administrative claims data **Other Prophy: Any other current medication (including acute) taken prophylactically for HAE

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Our pipeline

ASSET	PROGRAM	LEAD OPTIMIZATION	PRE- Clinical	PROOF OF CONCEPT [†]	PIVOTAL [‡]	APPROVED / COMMERCIAL
ORLADEYO® (berotralstat) Oral Plasma Kallikrein Inhibitor	Hereditary Angioedema (HAE)					
ORLADEYO® (berotralstat) Oral Plasma Kallikrein Inhibitor (age ≥2 years)	Hereditary Angioedema (HAE)					
BCX17725 Protein Therapeutic	Netherton Syndrome					
Avoralstat Ocular Plasma Kallikrein Inhibitor	Diabetic Macular Edema (DME)					
Oral C5 Inhibitor	Complement-Mediated Diseases					
Oral C2 Inhibitor	Complement-Mediated Diseases					
Bifunctional Complement Inhibitor	Complement-Mediated Diseases					

*ORLADEYO (age ≥ 2 years), BCX17725, and avoralstat are investigational and have not been deemed safe and effective by the FDA.

[†]Proof of Concept is typically Phase 1 or 2. [‡]Pivotal is typically Phase 3.

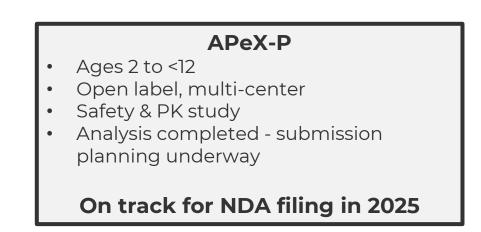


This is BIG: bringing ORLADEYO to children

- Despite significant innovation in HAE prophylaxis for adults, there is still high unmet need in children
- Injectable therapies are the only FDA-approved options for children ages 2 to <12
- Positions ORLADEYO to be the market leading prophylaxis for children (~500 patients in US)

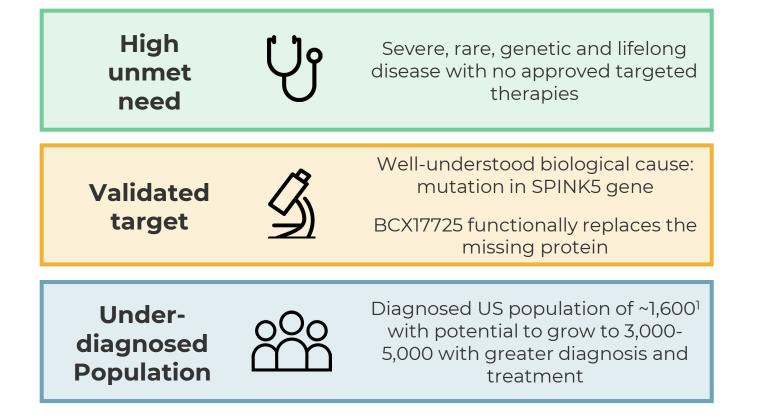


New dosage form: granules (2x3 mm)





Treating Netherton syndrome (NS) with a targeted KLK5 inhibitor: BCX17725

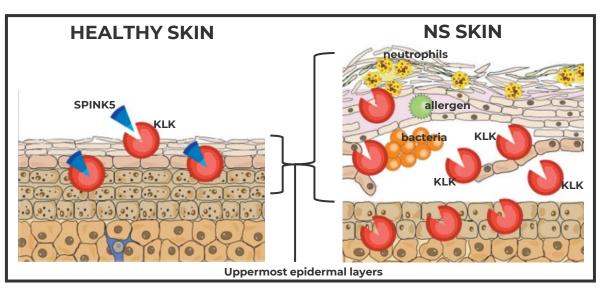




Next milestone: initial data in 2025



BCX17725 addresses the underlying disease biology in Netherton syndrome

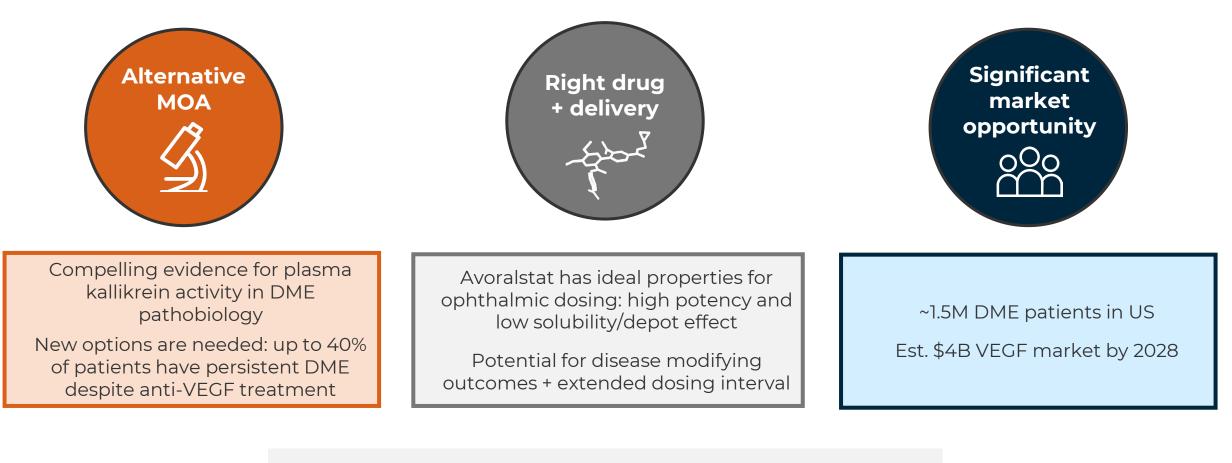


Modified from Petrova and Hovnanian, 2020 Expert Opinion Orphan Drugs¹

- Patients with NS have a mutation in the SPINK5 gene which causes a deficiency in the SPINK5 protein
- The SPINK5 protein is an important natural regulator of KLK5, a serine protease involved in skin turnover
- Unregulated KLK5 activity causes symptoms of NS by preventing formation of healthy skin barrier
- BCX17725 targets KLK5, providing functional replacement of the missing regulator protein to correct disease biology
- BCX17725 has the potential to improve both dermatologic and atopic disease symptoms



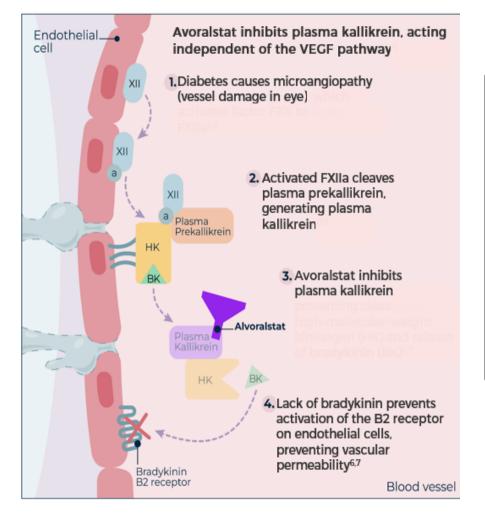
Addressing DME with a potent plasma kallikrein inhibitor: avoralstat suprachoroidal injection¹



Next milestone: begin patient studies in 2025

Avoralstat: a potent drug targeting DME

Potential to treat all DME Patients via VEGF-independent pathway

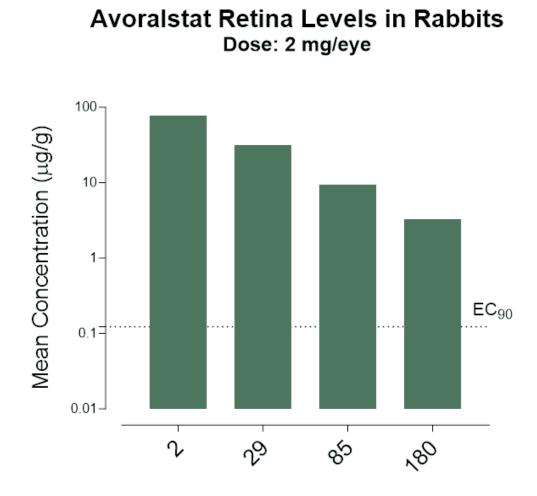


- Hyperglycemia damages retinal vasculature
- Damaged endothelium activates plasma Kallikrein (pKal)
- Elevated pKal levels seen in vitreous of DME patients
- Elevated pKal produces bradykinin leading to vascular leakage
- Avoralstat blocks pKal and bradykinin production
- Avoralstat has similar effect to VEGF inhibitors in well-established nonclinical model

BK, bradykinin; HK, high molecular weight kininogen

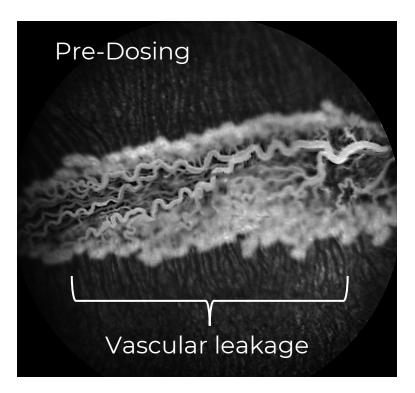


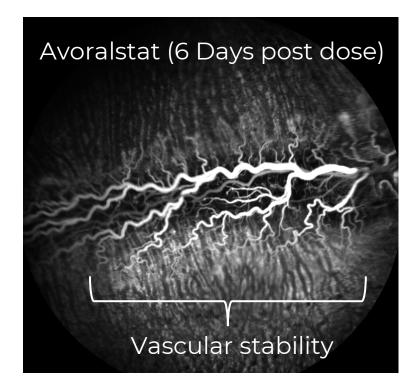
Suprachoroidal depot leads to 3+ months of sustained avoralstat levels in the retina¹





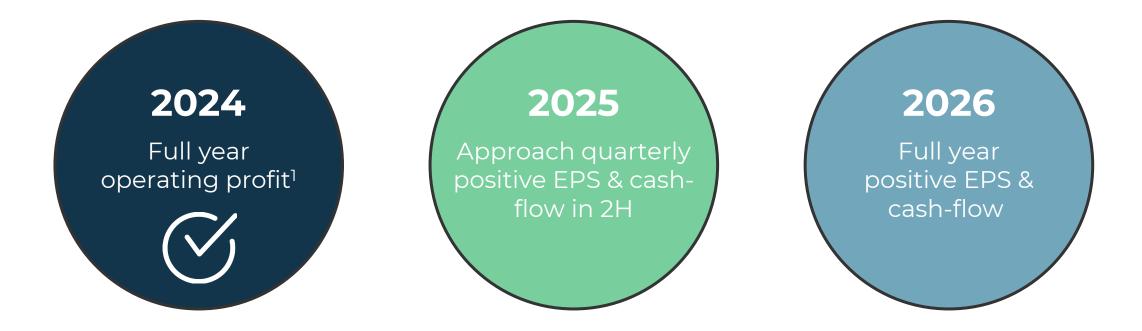
Avoralstat has similar effect to VEGF inhibitors in wellestablished nonclinical model¹







Financial independence and clear path to profitability





Key milestones in 2025

2025	File pediatric NDA for ORLADEYO			
2025	Begin avoralstat clinical evaluation in patients			
2H25	Obtain initial BCX17725 clinical data			
2H25	Approach sustainable quarterly positive EPS & cash flow			



Finance summary

(Figures in millions)

Q3 2024 CASH POSITION			
Cash, cash equivalents, restricted cash & investments at December 31, 2023	\$391		
Cash, cash equivalents, restricted cash & investments at June 30, 2024			
Cash, cash equivalents, restricted cash & investments at September 30, 2024	\$352		
Senior credit facility ^A	\$324		
2025 FY GUIDANCE			
ORLADEYO revenue	\$515-535		
Total product revenue	\$540-560		
Operating expenses	\$485-495		
Operating expenses (excluding stock-based compensation)	\$425-435		

A – From Pharmakon Advisors, \$300M drawn at issuance in Q2 2023. The \$324M balance above represents \$300M initial issuance plus PIK interest to-date (did not elect the PIK option for Q3 2024; the PIK option has now expired)



Traditional debt and royalty breakdown

September 30, 2024	December 31, 2023
33,000	23,565
481,775	508,034
514,775	531,599
314,333	303,231
	33,000 481,775 514,775

	Traditional Debt	Commercial Royalty		
Initial amount	\$300M term loan	\$425M royalty upfronts		
Partner(s)	Pharmakon (2023)	RP (2020, 2021) ^A OMERS (2021) ^A		
Description	 Rate: 3 mo. SOFR +7.00% (With PIK option: +7.25%) Maturity: April 2028 bullet Financial covenants: None PIK option: 50% of interest for first six quarters 	 Non-recourse (payments funded with revenues) Considered a "debt instrument" per GAAP An effective interest rate is calculated based on forecasted royalties, which determines interest expense Current balance = prior balance + interest expense – royalty paid If interest expense > royalties paid, balance increases If royalties paid > interest expense, balance decreases 		



Royalty obligations: terms

	Upfront	Product	Rate Tiers (Key Territories ^B)	Rate Tiers (Other Markets ^B)	Cumulative Payback Cap
RP 2020	\$125M	ORLADEYO	\$0-350M: 8.75% \$350M-550M: 2.75% Over \$550M: None	\$0-150M: 20% \$150M-230M: 10% Over \$230M: None	None
RP 2021	\$150M ^A	ORLADEYO	\$0-350M: 0.75% \$350M-550M: 1.75% Over \$550M: None	\$0-150M: 3% \$150M-230M: 2% Over \$230M: None	None
OMERS 2021	\$150M	ORLADEYO	\$0-350M: 10% \$350M-550M: 3% Over \$550M: None	\$0-150M: 20% \$150M-230M: 10% Over \$230M: None	1.55x

A - Royalty Pharma made an additional \$50M equity investment in conjunction with the 2021 Royalty Purchase Agreement

B – The "Key Territories" include the United States, key European markets and other markets where ORLADEYO is sold directly or through distributors. The "Other Markets" include revenue from licensees outside the Key Territories.

