

Improving and Protecting Life for Chronic-stable Angina Patients

BIOTECH SHOWCASETM

The investor conference for innovators

JP Morgan Healthcare Conference Week 2024

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Chronic-stable angina pectoris (CSAP) most often occurs on the basis of atherosclerotic coronary artery disease

Current angina treatments are not well suited, or even counterindicated, for MVA patients

Coronary Artery Disease

Coronary Vascular Dysfunction

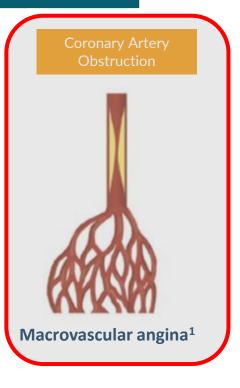
Microvascular Dysfunction

Microvascular angina¹ (MVA)





Vasospastic angina¹ (rare)







1. Marinescu et al. JACC Cardiovasc Imaging. 2015;8(2)210-220. 2. Patel MR et al. N Engl J Med. 2010;362:886-95. 3. Bradly C, Berry C. J Nucl Cardiol. 2022;29;1763-75. 4. Taqueti VR, Di Carli MF. J Am Coll Cardiol. 2018;72(21):2625-2641. 5. Chen JW et al. Am J Cardiol. 1997;80;32-38. 6. Zhu H et al. Clin Ther. 2019;41(10)2137-2152.

7. Kaski JC et al. *Circulation*. 2018;138;1463-1480. 8.Knuuti, J et al. *Eur Heart J*. 2020;41;:407-477.

Chronic Stable Angina Pectoris (CSAP) is a highly prevalent condition taking a heavy toll on millions of Americans

CSAP is the symptomatic side of coronary artery disease (CAD), typically manifesting as chest pain and shortness of breath



CSAP affects

11 M Americans

over the age of 20



Experience angina symptoms five years after diagnosis despite optimal treatment



Lifestyle, longevity, and life-saving cardiovascular procedures have contributed to a rapidly growing, stable angina population

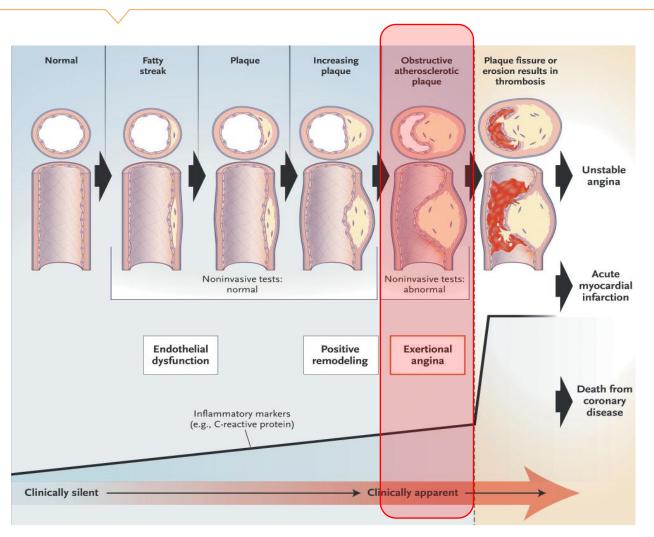


Report daily or weekly symptoms despite taking multiple antianginal medications

Inadequately controlled angina reduces significantly patients' quality of life as they seek to avoid effort-induced angina



Chronic-stable angina pectoris (CSAP) - Disease development and goal of therapy



Typical Progression of Coronary Atherosclerosis.

- CSAP patients have atherosclerotic coronary artery disease (CAD) as the underlying disorder
- As the plaque burden increases, the atherosclerotic mass tends to stay external to the lumen, which allows the diameter of the lumen to be maintained positive remodeling.
- As plaque encroaches into the lumen, the coronary artery diameter decreases.
- Myocardial ischemia results from the mismatch of coronary blood supply and heart muscle oxygen demand
- Luminal narrowing of more than 65 to 75% may result in transient ischemia and angina.
- In acute coronary syndromes (i.e., heart attack), vulnerable plaque is a more important factor than is the degree of stenosis; acute coronary events result from ulceration or erosion of the fibrous cap, with subsequent intraluminal thrombosis.



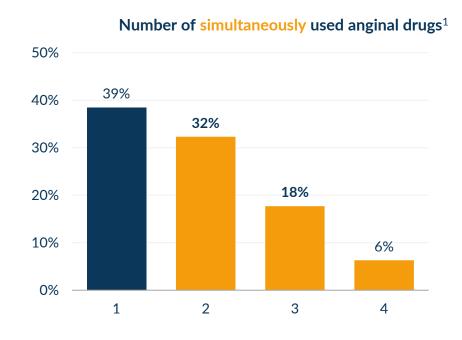
Chronic-stable angina pectoris (CSAP) - Disease development and goal of therapy



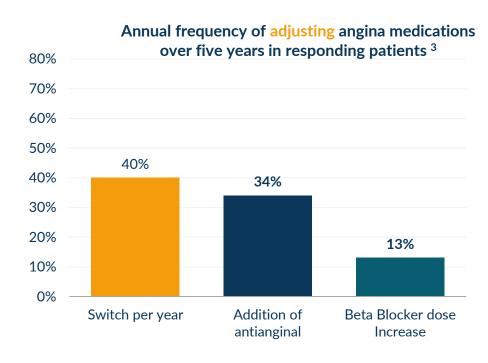


Most CSAP patients need ≥2 anti-angina medications yet remain symptomatic, underscoring a need for a new medication

Ample opportunity for introducing a new 1st line anti-anginal drug into a market of multiple drug use and frequent switching







- Among patients reporting angina, 23.3% report daily or weekly symptoms ^{1,2}
- 56.3% of patients with frequent angina episodes need two or more angina drugs to control their symptoms^{1,3}

An average of 40% of patients switch antianginal drugs each year³



CSAP presents a large economic burden for the payors and society

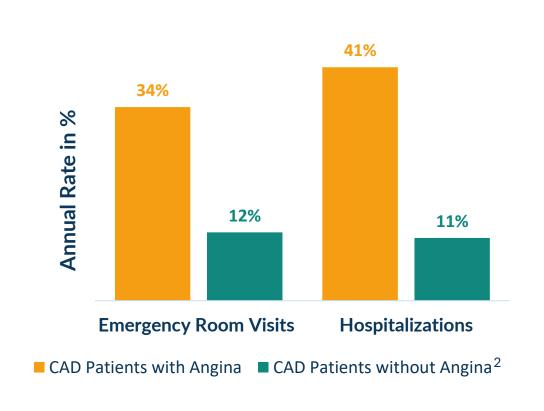
Hospital services utilization rates are much higher in chronic angina patients compared to CAD patients without chronic angina¹

CAD patients' annual care costs are twice as high when they suffer from chronic angina¹



In addition, CSAP is still frequently treated with costly elective invasive revascularization procedures, such as:

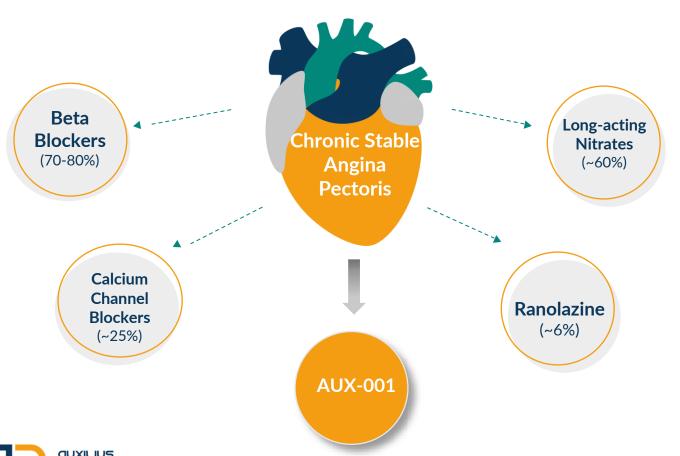




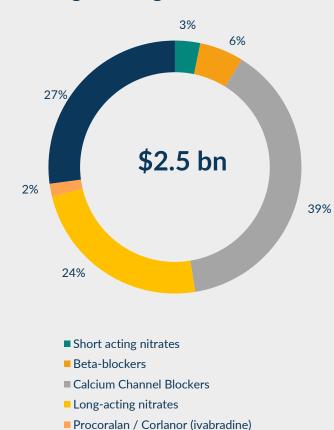
Chronic Angina Medication Market: How we currently treat CSAP in the US

US angina patients use on average 2.5 anti-anginal drugs to control their symptoms

Angina medication classes used in CSAP management



US Angina Drug Sales in 2020



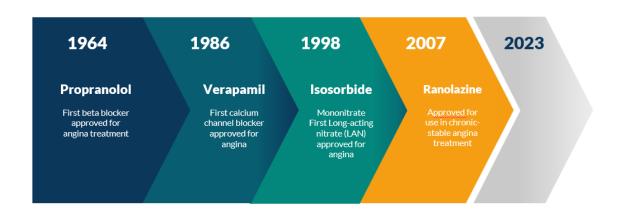
■ Ranolazine

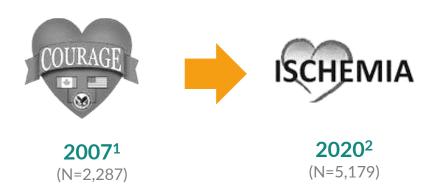
Why do we need a new and effective antianginal medication now?

Increasing focus on revascularization procedures stifled R&D of innovative antianginal medications in the US

US ANGINA DRUG PORTFOLIO IS DECADES OLD

ELECTIVE REVASCULARIZATION DOES NOT ELIMINATE ANGINA SYMPTOMS



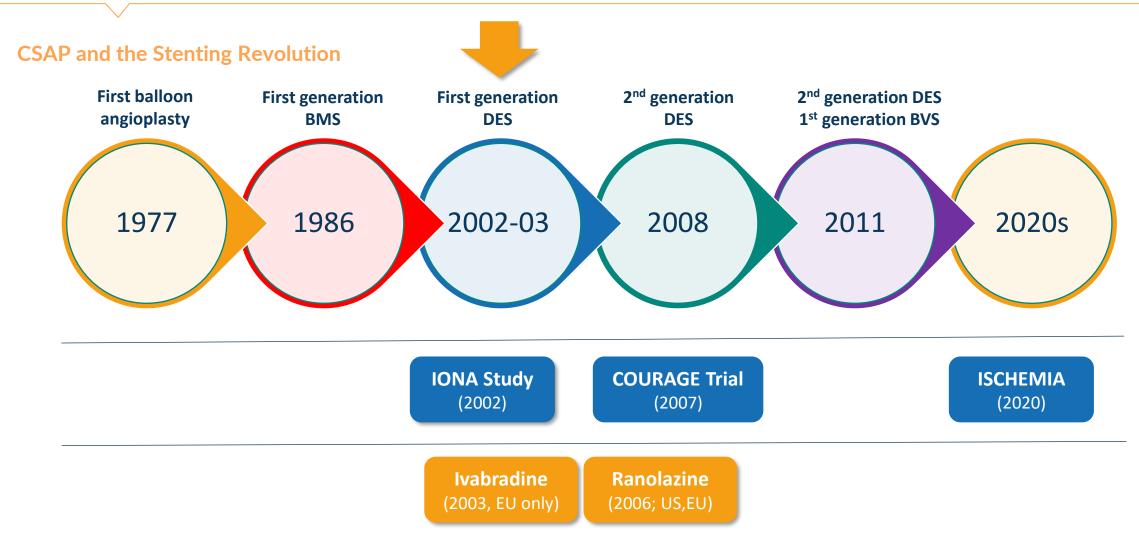


- Last anti-anginal drug was introduced in 2006/2007
- None of the current anti-angina medications demonstrated the ability to reduce risk in underlying CAD
- Many antianginals put a high pill burden on patients

- Two large outcomes studies demonstrated no benefit in angina symptom control of elective revascularization over optimal drug therapy alone along with no outcome benefits
- Revascularization caries additional mortality risk



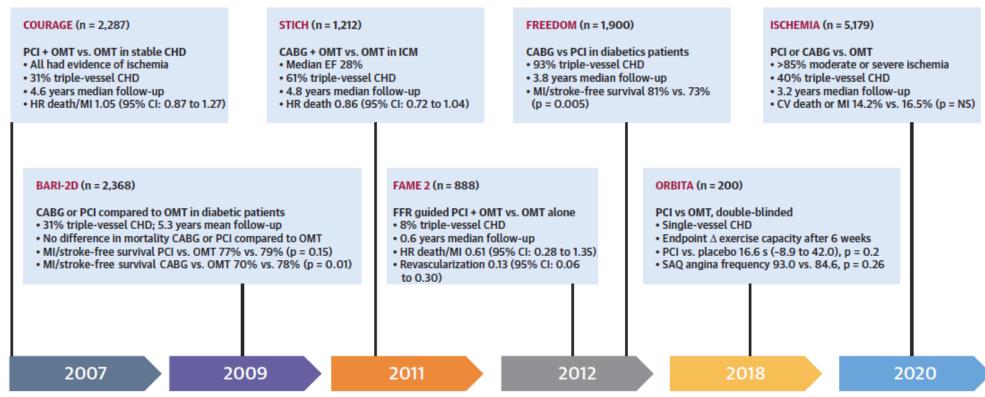
The decades long bet on revascularization delayed the R&D for new effective CSAP medications



BMS – bare metal stents; **DES** – drug eluting stents; **BVS** – bioresorbable vascular scaffolds



Major Trials in Chronic-stable Angina with CAD

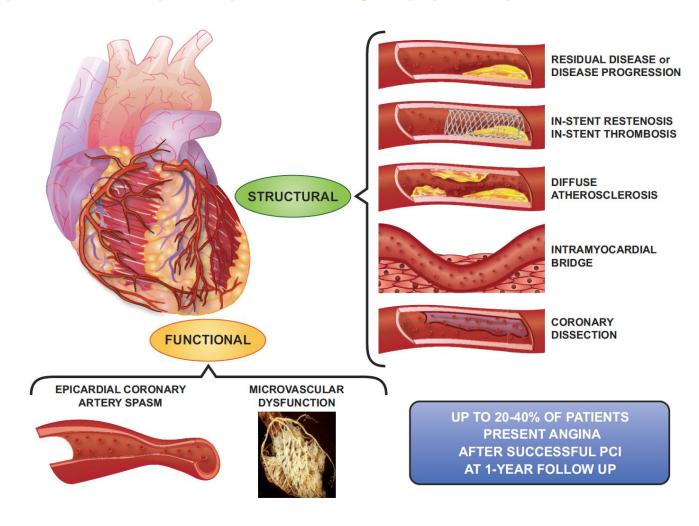


CABG = coronary artery bypass grafting; CHD = coronary heart disease; PCI ½ percutaneous coronary intervention; OMT = optimal medical therapy; MI = myocardial infarction; NS = not significant; SAQ = Seattle Angina Questionnaire.



Causes of Persistent Angina after Revascularization

Up to 40% of CSAP patients present with angina symptoms 1 year after successful PCI



- Coronary microvascular dysfunction (CMD) is a major functional contributor to persistent angina after PCI
- Patients who underwent PCI with secondgeneration DES, impaired coronary blood flow (CBF) response to both ACh (an endothelium-dependent stimulus) and adenosine (mostly an endotheliumindependent stimulus) was found.
- Overall, CMD was found in 59% of patients with previous PCI and residual angina symptoms

Our solution – effective angina symptom-controlling agent with proven hospitalization reduction outcomes

AP is actively working to bring AUX-001 to the US as a first-line, once-daily version of a well-known reference drug used in Europe and Asia







An efficient antianginal agent with a unique mechanism of action, able to address both macro and microvascular angina

First US anti-angina agent which Controls chronic angina symptoms AND reduces cardiovascular risk and frequency of hospitalization

Convenient once-daily dosing with no risk of tachyphylaxis (drug tolerance) frequently observed with long-acting nitrates



AUX-001 QD offers outcome benefits, cardioprotection, no drug tolerance at no extra cost

AUX-001 Comparative Target Product Profile

	Beta Blockers	Calcium Channel Blockers	AUX-001	Long-acting Nitrates	Ranolazine
Antianginal efficacy	✓	✓	✓	✓	✓
Outcomes benefits in angina patients with CAD	No	No	✓	No	No
Safety	✓	✓	✓	✓	✓
Dosing	QD/BID	QD/BID	QD	QD/BID/TID	BID
Tachyphylaxis	No	No	No	Yes	No
Cardioprotection in angina	No	No	✓	No	No
Ischemic preconditioning	No	No	✓	No	No
Reduction in angina- related hospital admission	No	No	✓	No	No



De-risked development plan

Reformulation of an effective cardiovascular twice-daily agent into a convenient, once-daily drug to be launched in the US



AP has **reformulated** the product from twice-daily to **once-daily** extended-release capsule



AP has filed and received a **patent** for the once-daily formulation



AP initiated collaboration with the **FDA** which **green-lighted** 505(b)2 pathway approach to obtain fast-track market approval in the US



AP will run **low-cost** / **time efficient** preclinical and clinical studies



First-in-human PK study in 2023; IND in 2025; NDA filing anticipated in 2027



AUX-001 Sales forecast

Market entry strategy based on high volume and conservative pricing

Planned AUX-001 launch as a first-line agent



We anticipate the take-up of AUX-001 will be the largest among the following patient groups:

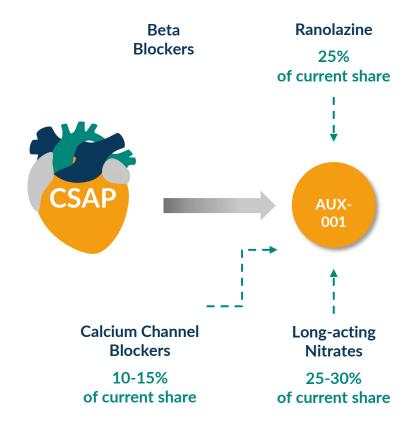
- Long-acting nitrates
- Calcium channel blockers and ranolazine
- New patients (annual incidence of CSAP is 650,000)
- Treatment refractory and/or microvascular angina



Based on our initial discussion with the US payors, we anticipate a pricing of AUX-001 in the range of \$100 per month

Estimated peak sales: \$720 MM - \$1080 MM

Estimated take-up by drug classes



Expected total share of 10-15% i.e. 600K to 900K CSAP patients by year 4



Leadership

Versatile Team with multifunctional experience in both the US and EU



Jed Litwiniuk, MHA Chief Executive Officer

Healthcare Executive and Corporate Finance Professional

- Head of M&A of Lux Med (the largest healthcare provider in CEE)
- Investment Director at Enterprise Venture Fund and PZU
- CEO of orthopedics and spine surgery inpatient clinic (CM Gamma)
- Co-founder of Picket Pharmaceuticals, NYC based start-up
- Executive MHA at Columbia University Mailman School of Public Health



Dawid Chabowski, PhD Science and Operational Manager

A biomedical scientist with experience in basic science research in areas of cardiovascular physiology, microvascular function, and lipid signaling.

- Research experiences from institutions such as St. John's University, Wake Forest University, and Mayo Clinic
- PhD from the Department of Pharmacology and Toxicology at the Medical College of Wisconsin



Uwe Tigör, MDChief Medical Officer

Extensive marketing and product launch experience

- Chief Medical Officer and Medical Director in healthcare marketing and communications agencies from IPG, WPP, HAVAS Health to InventivHealth
- Consultant to Pharmaceutical Industry
- Medical training in EU and US, MD from Humboldt University, Berlin
- Cardiovascular research experience, including a research fellowship at Mount Sinai Hospital, NY



Pascal St-Laurent
Pharmaceutical Development Consultant

- Over 25 years of experience in research and development and quality assurance. Experienced analytical chemist and manager
- Extensive knowledge of dissolution method development and validation (USP I, II, III and IV)
- Prior experiences include J&J Consumer Healthcare, Cephalon, Wyeth Pharmaceuticals, Schering and Merck

Key Advisors



Len S. Smith
Chief IP and Legal Counsel



Prof. Michael Weber, MD Cardiology Advisor



Julie Warneck
Non-clinical development
consultant



Prof. Juan-Carlos Kaski, DSc, MD Cardiology Advisor



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THANK YOU

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