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# Q3 2024 Results

Investor presentation  
October 29, 2024



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This presentation includes non-IFRS financial measures, including constant currencies (cc), core results and free cash flow. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report.



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# Company overview

**Vas Narasimhan, M.D.**  
Chief Executive Officer





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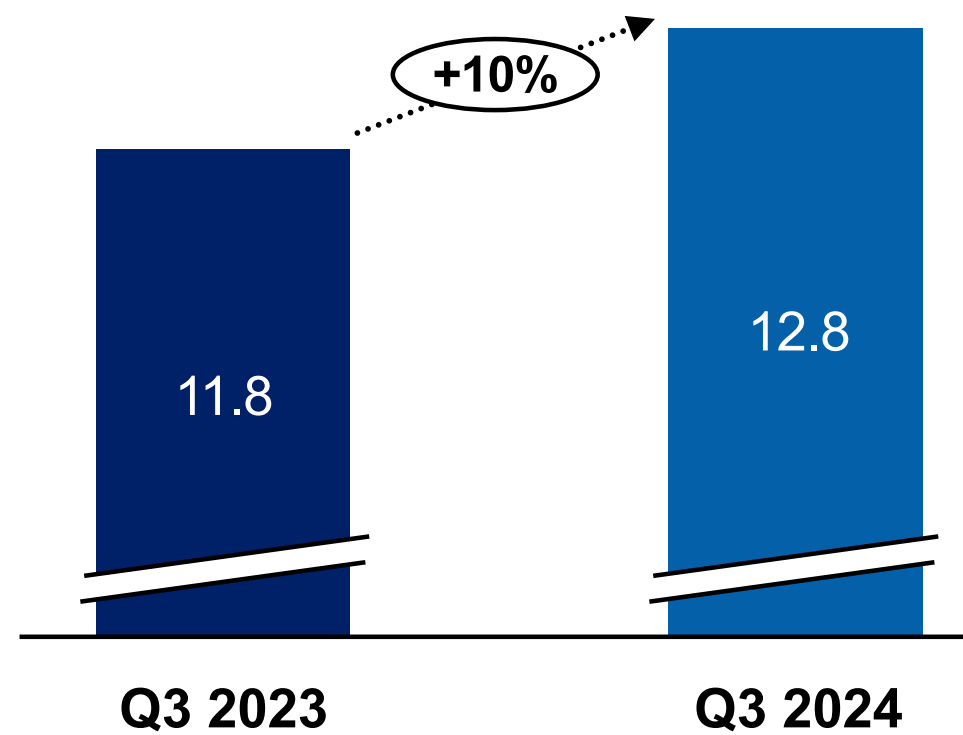
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# Novartis delivered strong operational performance and key pipeline milestones in Q3, supporting a further upgrade to FY 2024 guidance

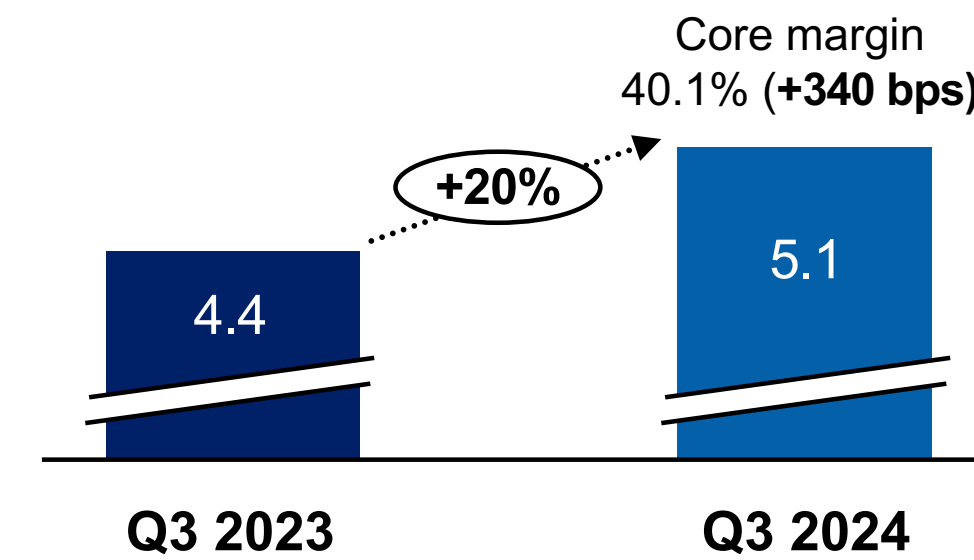
## Sales

USD bn, % cc<sup>1</sup>



## Core<sup>1</sup> operating income

USD bn, % cc<sup>1</sup>



## Innovation highlights

**Kisqali**<sup>®</sup> FDA approval and CHMP positive opinion for HR+/HER2- stage II and III eBC

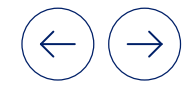
**Fabhalta**<sup>®</sup> FDA accelerated approval for IgA nephropathy

**Pluvicto**<sup>®</sup> FDA filing accepted for pre-taxane mCRPC

**Scemblix**<sup>®</sup> FDA Priority Review for 1L CML

**Third raise to FY 2024 guidance<sup>2</sup>: Sales now expected to grow low double-digit, and core operating income to grow high teens**

1. Constant currencies (cc) and core results are non-IFRS measures. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY. 2. Please see detailed guidance assumptions on slide 20.



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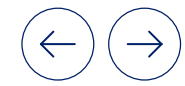
# Q3 growth reflects strong performance from key growth drivers as well as newer launches

## Q3 sales

	Sales USD million	Growth vs PY USD million	Growth vs PY cc
Entresto <sup>®</sup> <small>sacubitril/valsartan</small>	1,865	380	26%
Cosentyx <sup>®</sup> <small>secukinumab</small>	1,693	364	28%
KISQALI <sup>®</sup> <small>ribociclib</small>	787	225	43%
Kesimpta <sup>®</sup> <small>ofatumumab</small>	838	181	28%
PLUVICTO <sup>®</sup>	386	130	50%
LEQVIO <sup>®</sup>	198	108	119%
SCEMBLIX <sup>®</sup> <small>asciminib</small>	182	76	72%
FABHALTA <sup>®</sup> <small>iptacopan</small>	44	44	nm
JAKAVI <sup>®</sup> <small>ruxolitinib</small>	500	73	18%
Tafinlar <sup>®</sup> + Mekinist <sup>®</sup> <small>osimertinib + trametinib</small>	534	52	12%
Xolair <sup>®</sup> <small>Omalizumab</small>	418	49	15%

Strong growth (+34% cc); expected to continue

Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



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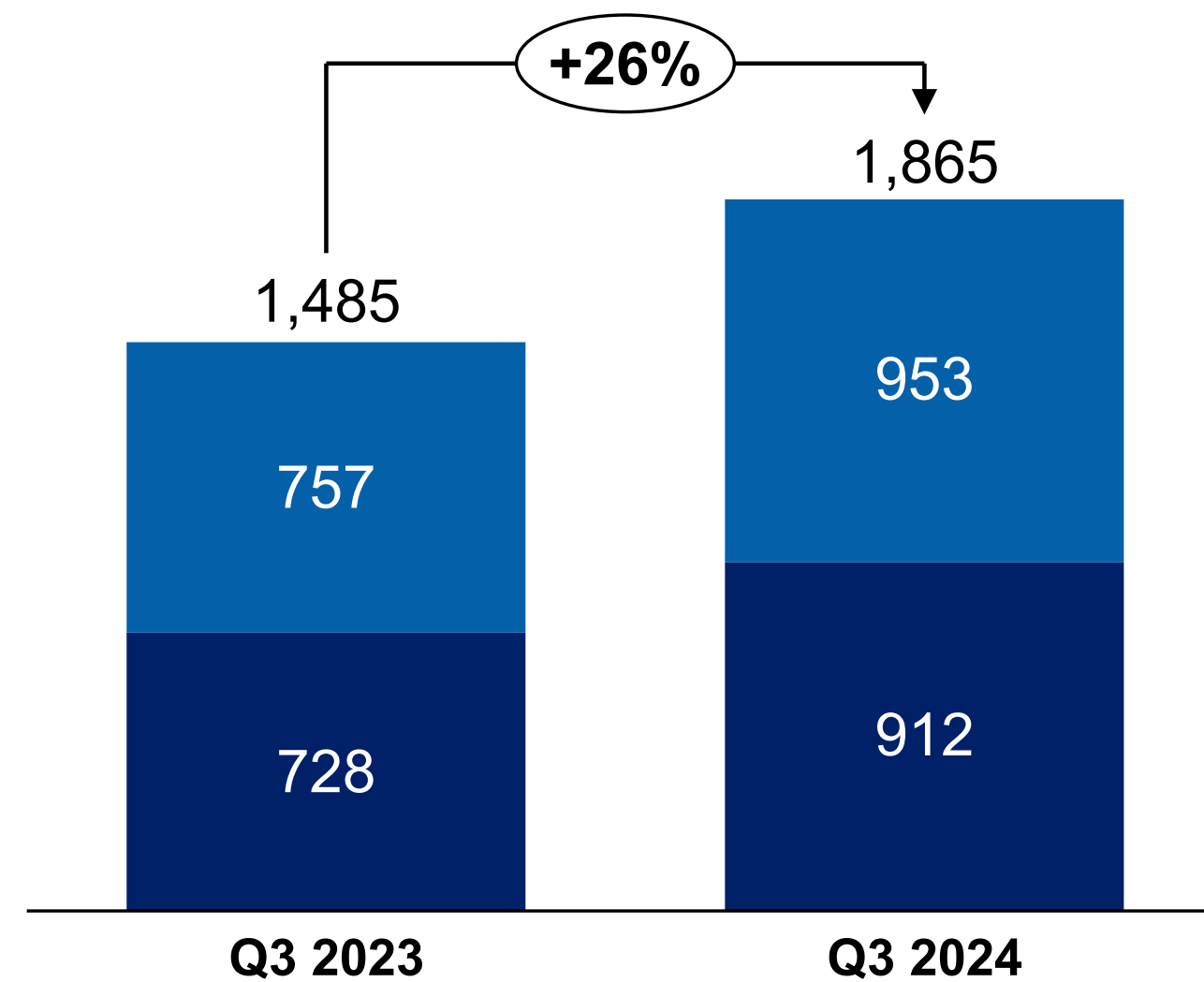
# Entresto® sales continued to climb, increasing +26% in Q3



## Sales evolution

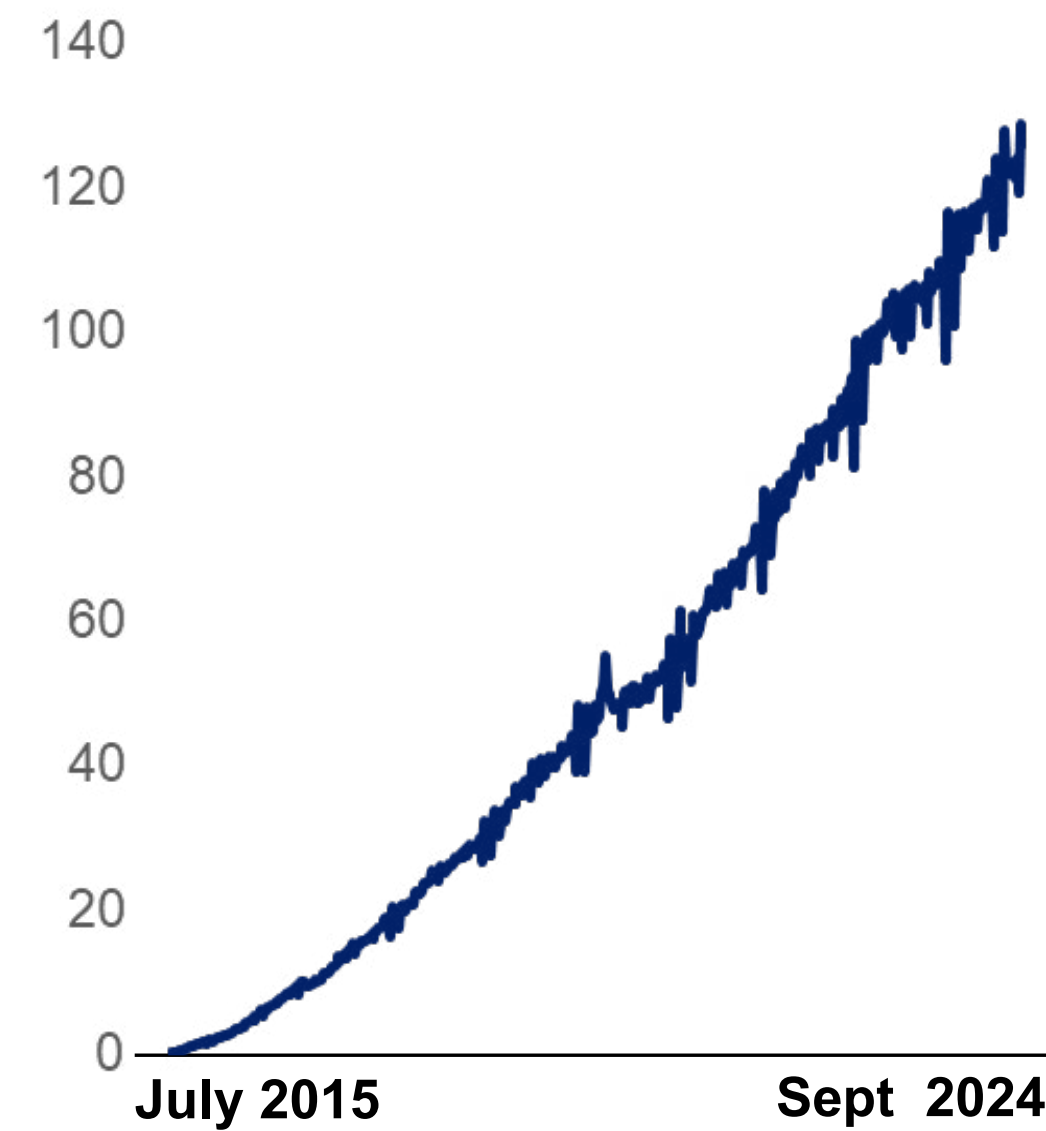
USD m, % cc

■ US ■ Ex-US



## US weekly TRx<sup>1</sup>

Total prescriptions (000)



## Continued momentum in 10<sup>th</sup> year

- US: +25% with TRx growth +20%; ~45k NBRx and ~500k TRx per month
- Ex-US: +26% cc

## Confidence in growth up to LoE

- Strong guideline position<sup>2</sup> (US/EU)
- Continued penetration in HF globally and HTN in China/Japan<sup>3</sup>
- US: For forecasting purposes, we assume Entresto® LoE in mid-2025<sup>4</sup>
- EU: RDP to Nov 2026<sup>5</sup>

See page 70 for references (footnotes 1-5). TRx – total prescriptions. NBRx – new to brand prescription. HF – heart failure. HTN – hypertension. LoE – loss of exclusivity. RDP – Regulatory data protection. Constant currencies (cc) is a non-IFRS measure. Explanation of non-IFRS measures can be found on page 46 of Interim Financial Report.

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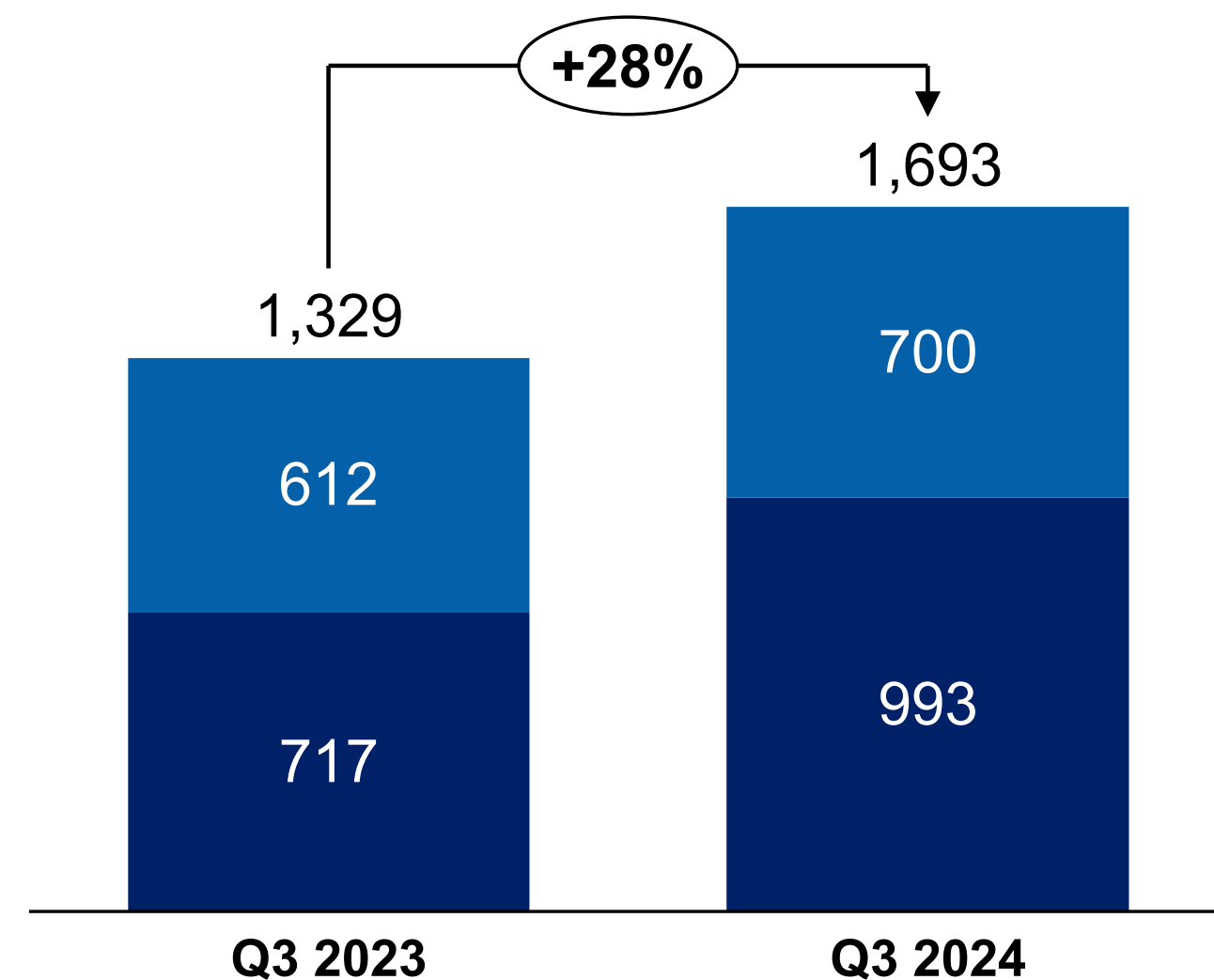
# Cosentyx<sup>®</sup> grew +28%, fueled by new launches as well as expansion in core indications



## Sales evolution

USD m, % cc

■ US ■ Ex-US



## Demand-driven growth across geographies

- US: +38%
- Ex-US: +16% cc

## Competitive in core indications (PsO, PsA, AS, nr-axSpA)

- No.1 IL-17 in US dynamic market<sup>1</sup>
- Leading originator biologic in EU<sup>2</sup> and China<sup>3</sup>

## New launches continue to accelerate growth

- HS: Dynamic market leadership in US (>60%) and DE (>50%) NBRx; reimbursed in key markets<sup>4</sup>
- IV: Accelerated adoption in US (>1,250 accounts, +52% QoQ) post permanent J-code (effective July 1)<sup>5</sup>

See page 70 for references (footnotes 1-5). PsO – psoriasis. PsA – psoriatic arthritis. AS – ankylosing spondylitis. nr-axSpA– non-radiographic axial spondyloarthritis. HS – Hidradenitis suppurativa. IL – interleukin. IV – intravenous. Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

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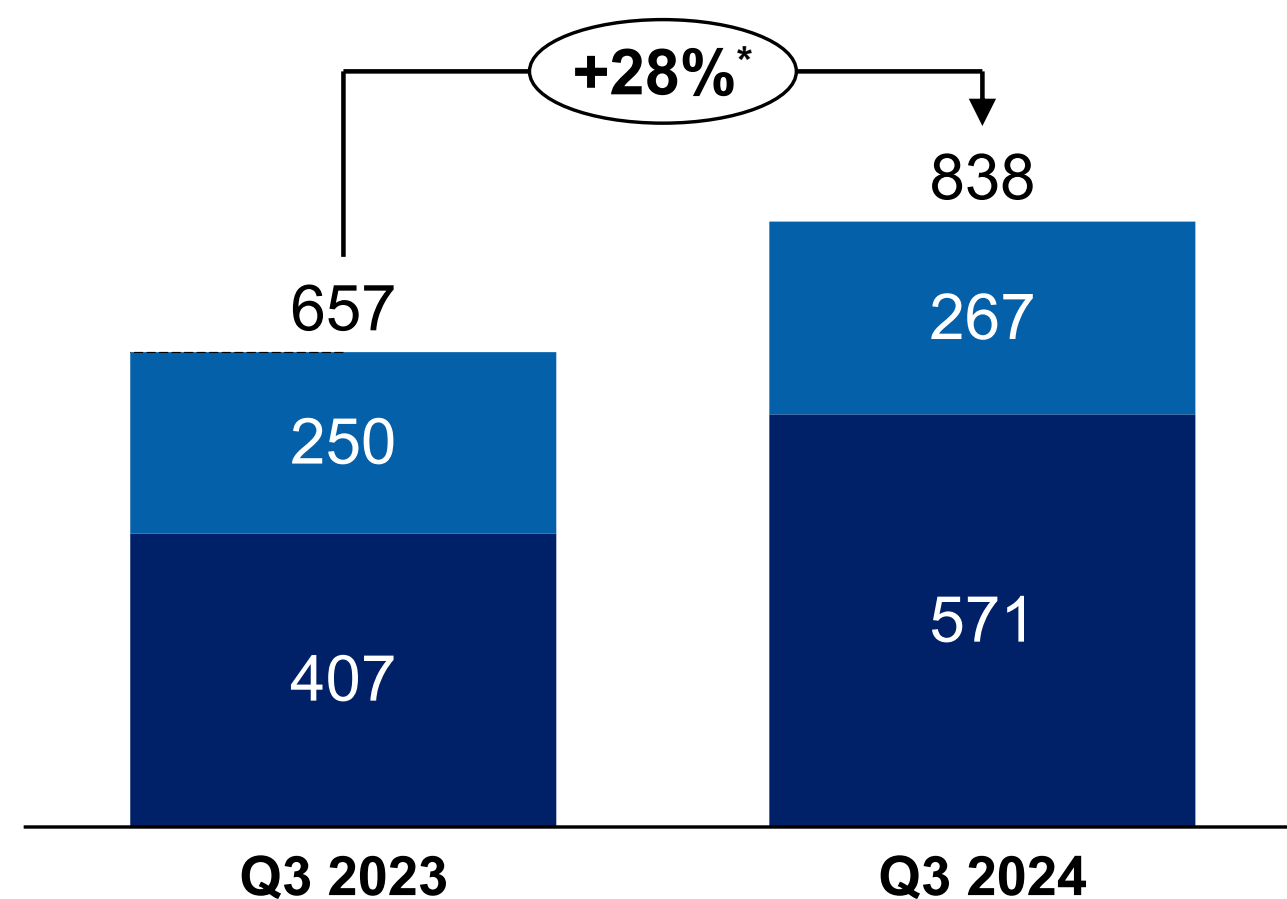
# Kesimpta® continued to see strong demand globally



## Sales evolution

USD m, % cc

■ US ■ Ex-US



\*Without the PY one-time RD adjustment (USD 118m), sales growth **+56% cc**

## Continued market share gains in key geographies

- >100k patients treated worldwide, majority naïve or first switch<sup>1</sup>
- US: Demand-led growth with TRx volume +38% vs PY, gaining +3.7pts share
- Ex-US: Strong underlying growth excluding one-time RD adjustment in PY<sup>2</sup>

## New data at ECTRIMS reinforce benefits for 1L and switch patients

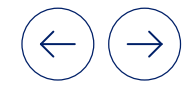
- ALITHIOS: Nearly 90% of 1L Kesimpta® patients had no disability progression independent of relapse activity for up to 6 years<sup>3</sup>
- OLİKOS: No new active lesions (Gd+ T1) 12 months after switching from anti-CD20 IV<sup>4</sup>

## Confident in continued momentum based on compelling positioning

- First and only self-administered subcutaneous B-cell treatment option that can be dosed in 1 minute a month<sup>5</sup>
- To our knowledge, there are no Kesimpta® biosimilars currently in clinical development

See page 70 for references (footnotes 1-4). 3. Open-label extension study. 4. US single-arm, open-label, Phase IIIb study. 5. As per stability technical specification data, when the patient is ready to inject, it typically takes less than 1 minute a month to administer. Once-monthly dosing begins after the initial dosing period, which consists of 20 mg subcutaneous doses at weeks 0, 1, and 2. Please see Instructions for Use for more detailed instructions on preparation and administration of KESIMPTA. Patient must take pen out of the refrigerator 15-30 minutes before self-administering. Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.





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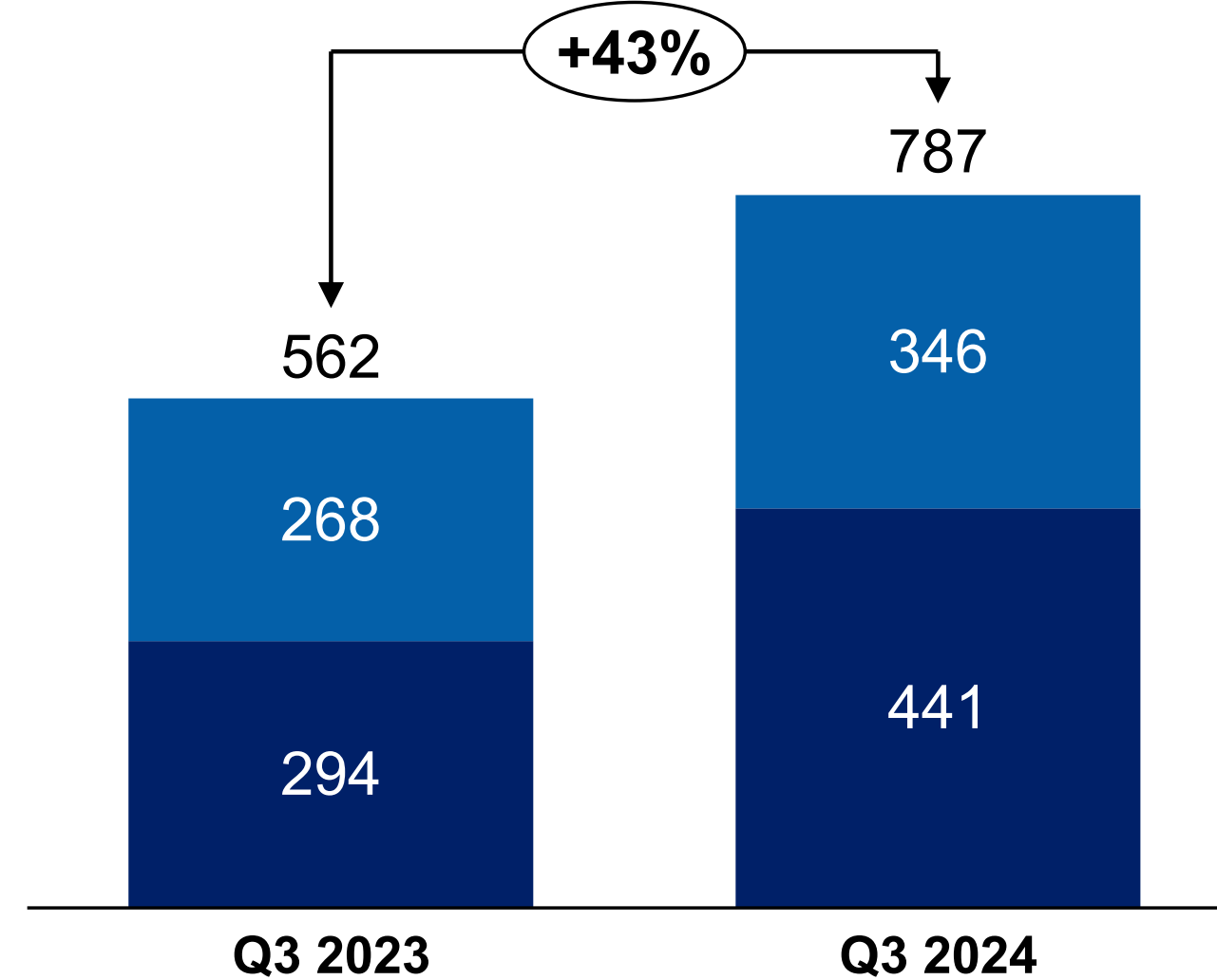
# Kisqali<sup>®</sup> continued to cement leadership in mBC, and launched in eBC with FDA approval and Category 1 NCCN guideline recommendation



## Sales evolution

USD m, % cc

■ US ■ Ex-US



### US: +50% growth, gaining widespread adoption

- Leading share in mBC NBRx at 48%; now second in TRx share with 31%<sup>1</sup>
- 7.5k HCPs now prescribing and increasing depth, reflecting strong guideline position

### Ex-US: +36% cc growth, as the preferred CDK4/6i<sup>2</sup>

- Leading share in mBC new starts at 43%<sup>2</sup>
- Fastest-growing CDK4/6i in Europe, recognized with highest ESMO-MCBS score

### eBC: FDA approved with broad label; CHMP issued positive opinion

- US label includes patients with stage II and III eBC at high risk of recurrence, more than doubling the population eligible for CDK4/6i adjuvant therapy
- Category 1 preferred NCCN guidelines recommendation for full studied population

See page 70 for references (footnotes 1-2). eBC – early breast cancer. mBC – metastatic breast cancer. NBRx – new to brand prescription. AI – aromatase inhibitor. Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

# Kisqali<sup>®</sup> shows deepening benefit in eBC, reducing the risk of recurrence by 28.5% in a broad population of patients<sup>1</sup>



## NATALEE 4-year data

### IDFS benefit cross pre-specified subgroups<sup>1</sup>

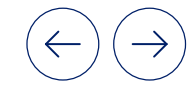
Subgroup	4-year IDFS rate, %	4-year IDFS absolute benefit, %
<b>Intention-To-Treat Population</b>	Kisqali <sup>®</sup> + ET: 88.5 ET alone: 83.6 (HR=0.715; 95% CI 0.609-0.840)	4.9
<b>AJCC Tumor Stage II</b>	Kisqali <sup>®</sup> + ET: 93.9 ET alone: 89.6 (HR=0.644; 95% CI 0.468-0.887)	4.3
<b>AJCC Tumor Stage III</b>	Kisqali <sup>®</sup> + ET: 84.3 ET alone: 78.4 (HR=0.737; 95% CI 0.611-0.888)	5.9
<b>Node-negative disease</b>	Kisqali <sup>®</sup> + ET: 92.1 ET alone: 87.0 (HR=0.666; 95% CI 0.397-1.118)	5.1



- iDFS benefit continued to increase after completion of Kisqali treatment
- Benefit consistent across subgroups, including N0
- Consistent results across secondary endpoints, with a trend for improved OS
- No new safety signals identified

**Data reinforce Kisqali's potential to address high unmet need across a broad population of eBC patients, who face significant risk of recurrence despite being treated with SoC adjuvant ET<sup>2,3</sup>**

See page 71 for references (footnotes 1-3).



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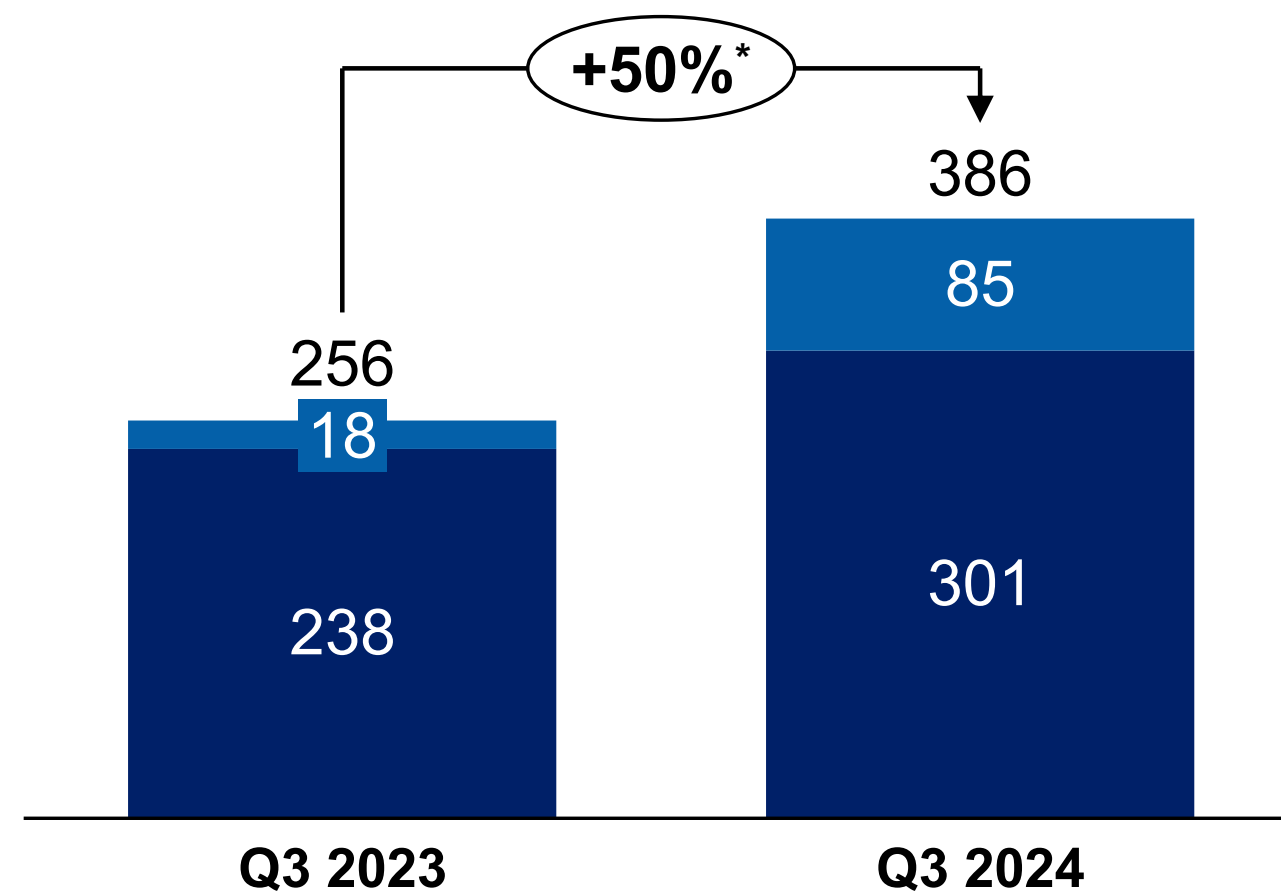
# Pluvicto<sup>®</sup> continued steady performance in the post-taxane setting, laying the foundation for anticipated PSMAfore launch in 2025



## Sales evolution

USD m, % cc

■ US ■ Ex-US



\*Without the one-time RD adjustment in Europe (USD 36m), sales growth **+36% cc**

## Steady performance in Q3; Q4 expected to be broadly in line with Q3 excluding RD adjustment

- Increased US field force and launched DTC to drive HCP and patient awareness
- Continued site growth with ~530 treatment sites in the US (+6% vs PQ, +55% vs PY), expanding into community setting
- Ex-US launch progressing with pricing and reimbursement discussions; Q3 sales include one-time RD adjustment in Europe

## New indications and geographies expected to accelerate growth

- PSMAfore filing accepted by FDA; preparing for launch in 2025
- China post-taxane and Japan pre/post-taxane submissions expected by YE
- PSMAddition in mHSPC and PSMA-DC in oligometastatic disease progressing
- Began construction on two new US RLT facilities to support expanding RLT portfolio

mHSPC – metastatic hormone-sensitive prostate cancer. Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

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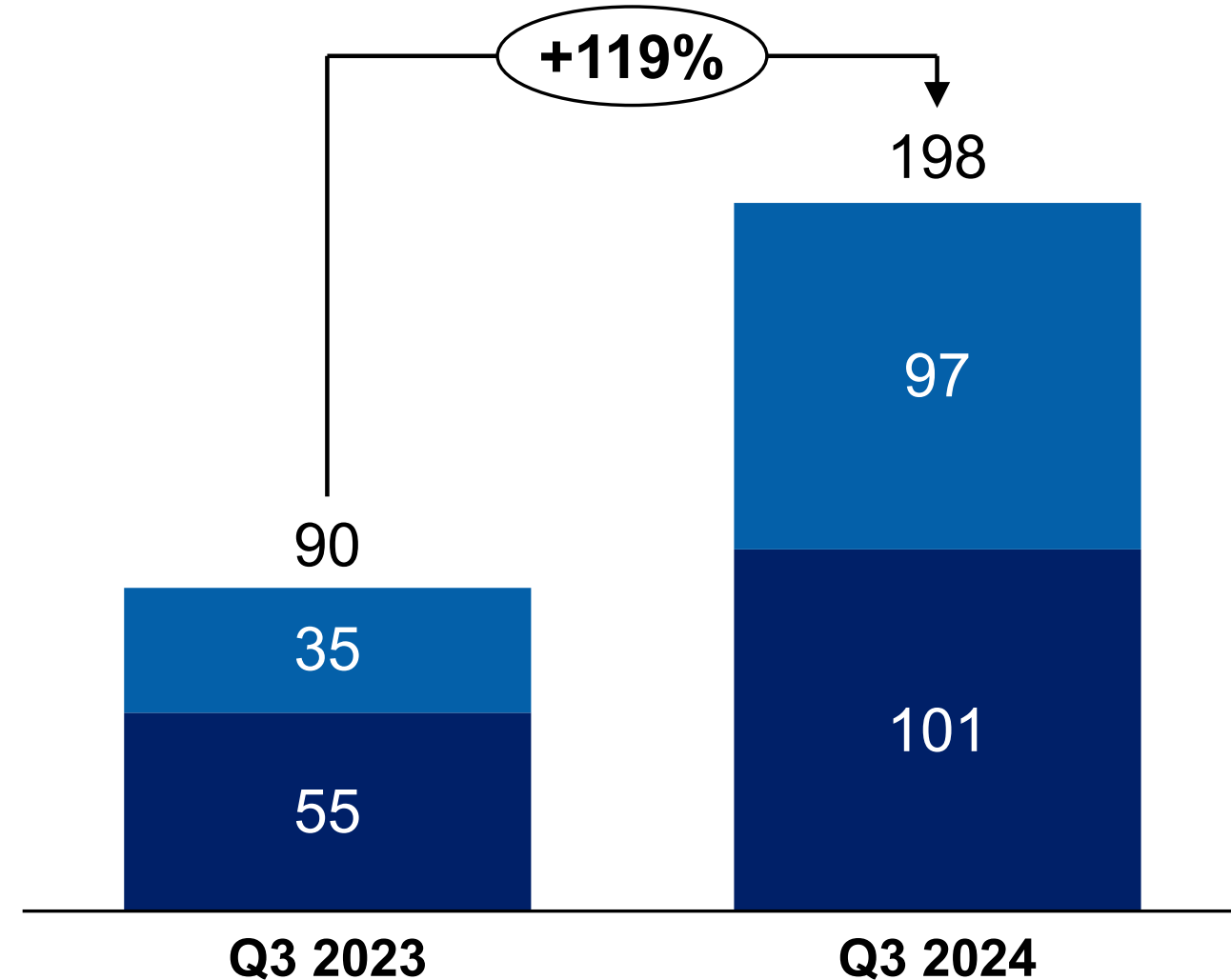
# Leqvio<sup>®</sup> growth trend continued, with accelerating adoption ex-US



## Sales evolution

USD m, % cc

■ US ■ Ex-US



### US: Continued growth outpacing advanced lipid-lowering market<sup>1</sup>

- 4,600 facilities, accounting for 30% of aLL market volume<sup>2</sup>, have ordered Leqvio<sup>®</sup> (+7% vs PQ; +50% vs PY)
- Demand increasing across all channels (TRx +10% vs PQ; +94% vs PY)
- Targeted strategy resulting in market share gains among post-event CAD patients

### Ex-US: Growth in all markets

- Now reimbursed in 39 countries, and commercially available in 73

### Adding to Leqvio<sup>®</sup> body of evidence across ASCVD continuum

- Phase III V-MONO trial met primary endpoints, demonstrating superiority of Leqvio monotherapy vs both placebo and ezetimibe in LDL-C reduction<sup>3</sup>
- Data will be shared with HAs and presented at upcoming medical meeting

See page 71 for references (footnotes 1-3). aLL – advanced lipid lowering. CAD – Coronary Artery Disease. Constant currencies (cc) is a non-IFRS measure. An explanation can be found on page 46 of Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY. Novartis obtained global rights to develop, manufacture, and commercialize Leqvio under license / collaboration agreement with Alnylam Pharmaceuticals.

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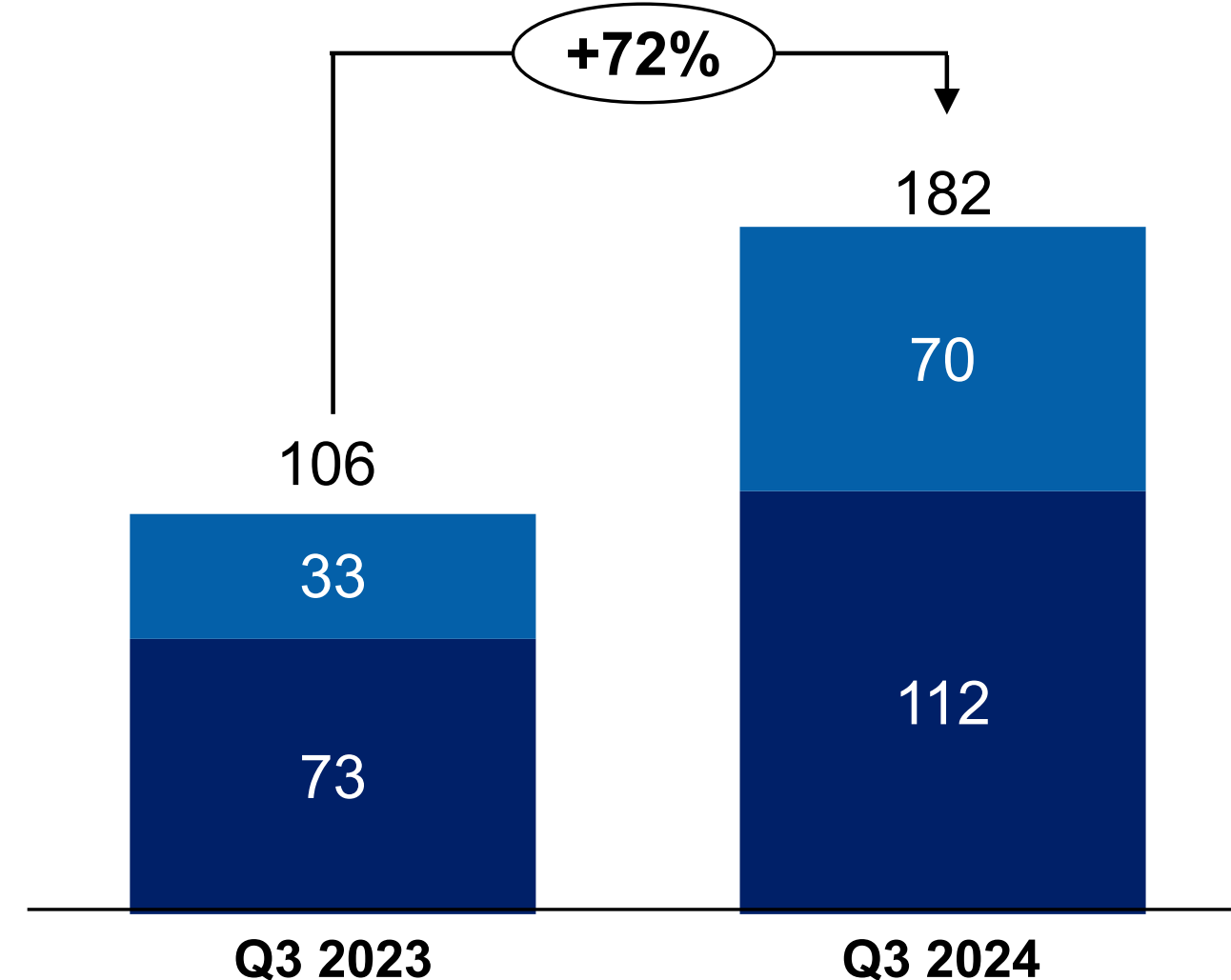
# Scemblix<sup>®</sup> grew +72% in Q3 as the preferred option for 3L+ CML



## Sales evolution

USD m, % cc

■ US ■ Ex-US



## Market leader in 3L+ NBRx and TRx across geographies

- US: Leader in TRx (26%) and NBRx share, driven by QoQ demand growth of 18%<sup>1</sup>; 9% growth in prescriber base QoQ<sup>2</sup>
- Ex-US: Sales continue strong trajectory (+115% cc) driven by NBRx, total market share<sup>3</sup> and prescriber base growth
- Continued success in 3L+ serves as strong foundation for 1L launch

## Confident in 1L CML opportunity globally

- FDA granted priority review; preparing for launch in Q4
- Ex-US: China and Japan submissions completed

See page 71 for references (footnotes 1-3). CML – Chronic Myeloid Leukemia. Constant currencies (cc) is a non-IFRS measure. An explanation can be found on page 46 of Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

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# Fabhalta<sup>®</sup> continued to see broad uptake in PNH, as the only oral monotherapy providing comprehensive hemolysis control






## PNH: Only oral monotherapy for adults with PNH providing comprehensive control of IVH and EVH

✓ **US: Continued strong launch performance** with majority of uptake from switch patients

 High compliance and continuation rate <sup>1</sup>	 Strong access with 70%+ coverage to label <sup>2</sup>	 Leading in NBRx share with >30% <sup>3</sup>
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✓ **International: Strong initial uptake** driven by DE and CN and broad prescribing HCP base

 Solid early patient activation (>175 patients) and >1k HCPs reached in first 3 months in top 3 markets <sup>4</sup>	 Utilization across naive and switch patients (from both C5i and C3i) <sup>5</sup>	 Recent launches in Japan, UK and granted early access program in France
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See page 71 for references (footnotes 1-5). IVH – intravascular hemolysis. EVH – extravascular hemolysis. PNH – paroxysmal nocturnal hemoglobinuria. C5i – eculizumab and ravulizumab.

# Fabhalta<sup>®</sup> received accelerated approval in the US as first and only complement inhibitor for IgAN



## Received accelerated approval from FDA

Granted based on positive interim analysis data from APPLAUSE Ph3

Study continues to confirmatory endpoint (eGFR) at 24 months

Study completion data in 2025

## Increasing HCP preference

Positive HCP feedback on efficacy and safety profile

Growing belief in the role of alternative pathway

Favorable perceptions of onboarding process

## Positive early launch momentum

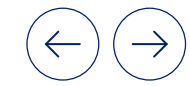
Rapid REMS certification of HCPs (>1k since launch)<sup>1</sup>

New writers and patient starts exceeding expectations

Leveraging portfolio synergies for broad/quick access

**Positioning for patients with persistent proteinuria and glomerular inflammation; pricing consistent with PNH indication**

See page 72 for reference (footnote 1).



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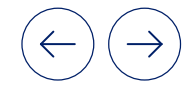
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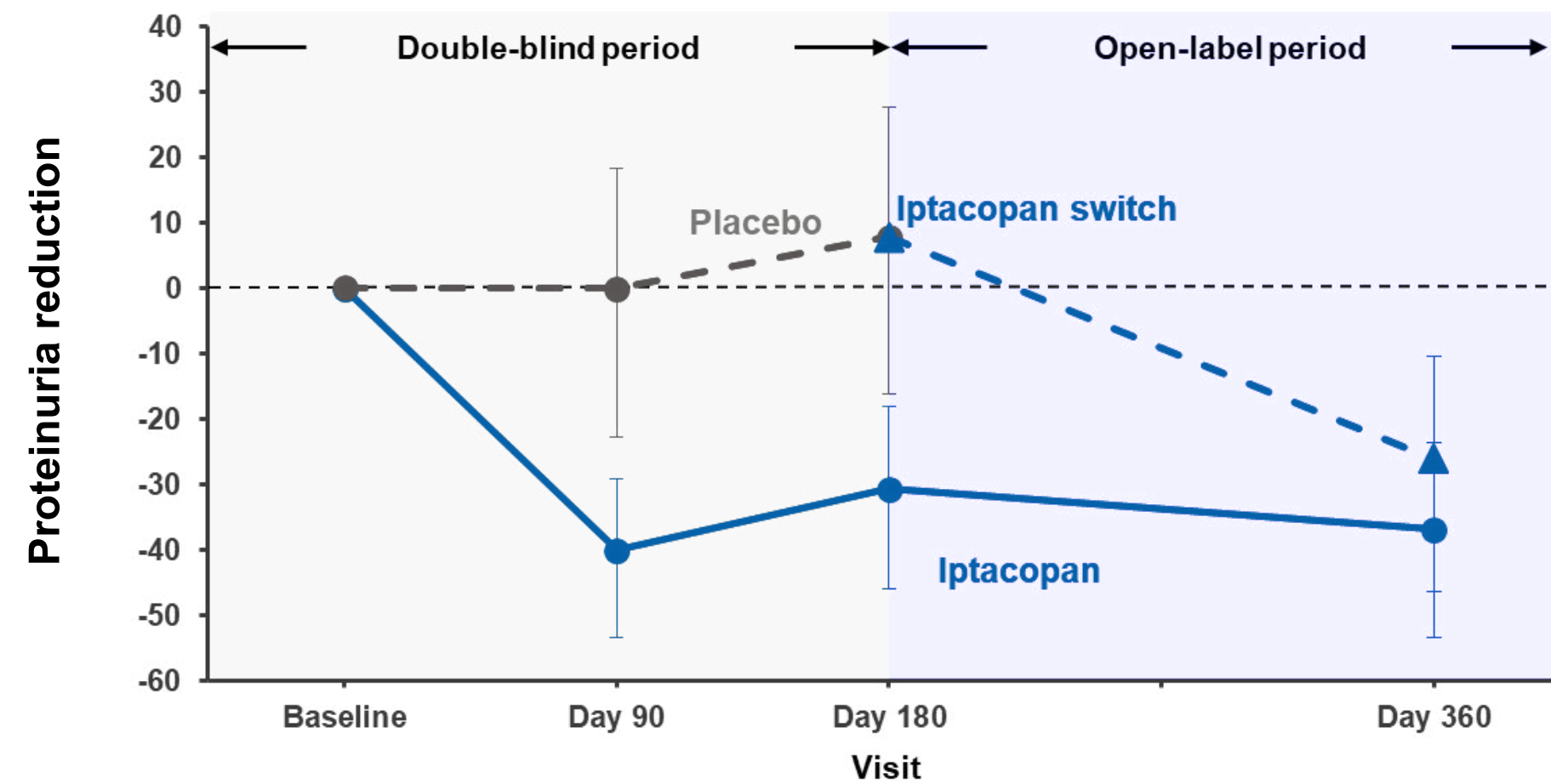
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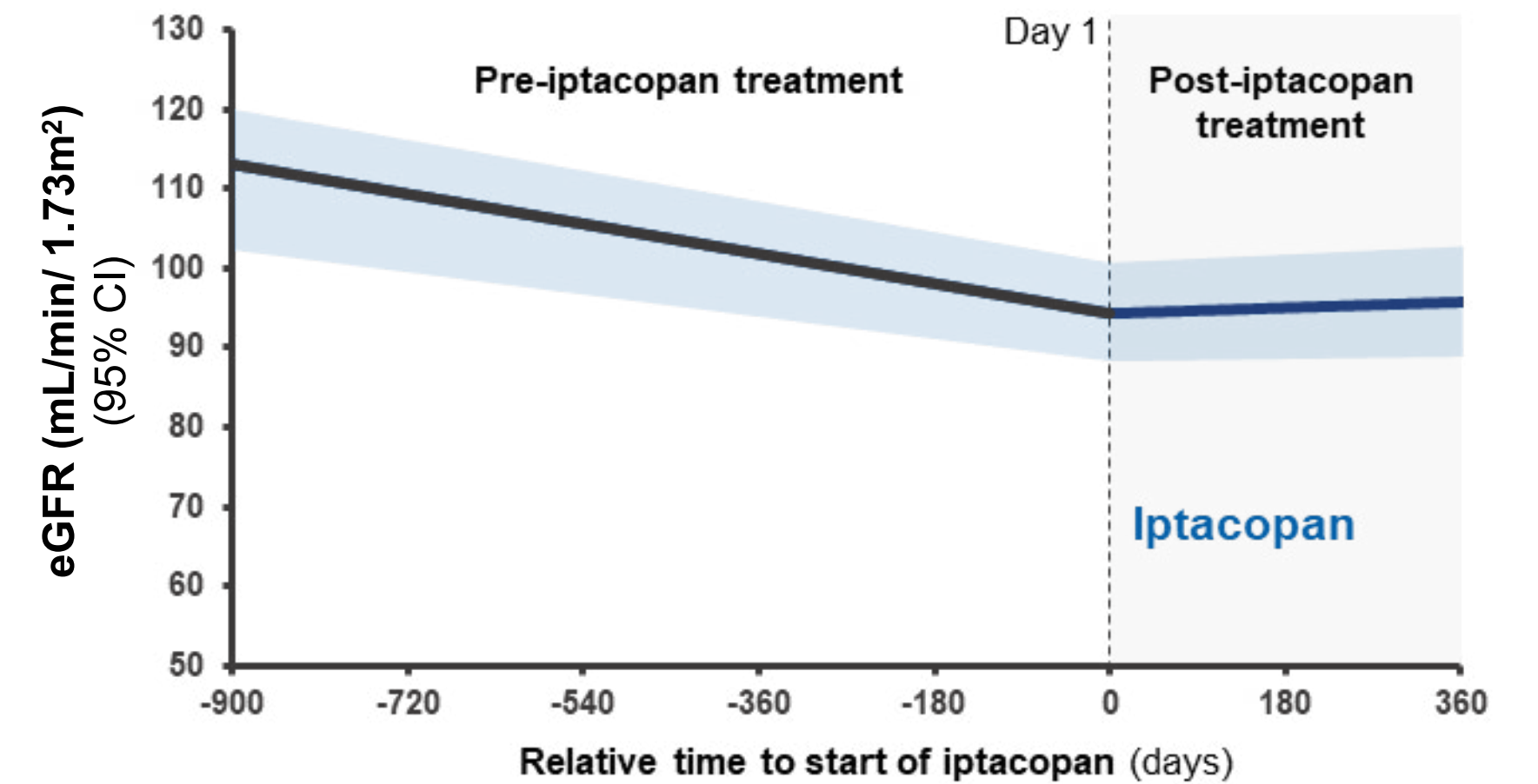
References

# Iptacopan: 12-month APPEAR-C3G data presented at ASN<sup>1</sup> support global regulatory filings by year-end 2024

**Change in UPCR<sup>2</sup> - reduction sustained over 12 months and replicated in placebo arm after switch to iptacopan**



**Stabilization of eGFR<sup>3,4</sup> - change in eGFR slope vs historic slope decline maintained over 12 months**



**Next steps**



Ongoing health authority reviews in EU and other countries. Submission expected in US by year-end.

See page 72 for references (footnotes 1-4). Iptacopan is the INN (international non-proprietary name) of Fabhalta<sup>®</sup> for unapproved indications.





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# Continued progress on innovation milestones in Q3

## 2024 selected key events (expected)

		H1 2024	H2 2024	Q3 status update
<b>Regulatory decisions</b>	Fabhalta® PNH		EU, JP	EU, JP and China approval in Q2
	Kisqali® HR+/HER2- adj.BC		US, EU	US approval in Q3; CHMP positive opinion in Q4
<b>Submissions</b>	Atrasentan IgAN	US		US submission in Q2
	Fabhalta® (iptacopan) C3G		US, EU	EU, JP and China submissions in Q3
	Fabhalta® (iptacopan) IgAN	US		US accelerated approval and China submission in Q3
	Pluvicto® mCRPC, pre-taxane		US	US submission in Q3
	Remibrutinib CSU			Ph3 REMIX-1 and -2 52-week readout in Q1; submissions expected 2025
	Scemblix® CML 1L	US	JP	FDA granted priority review; China and Japan submissions in Q3
	Lutathera® GEP-NET 1L G2/G3	EU		EU submission in Q2
<b>Readouts</b>	Scemblix® CML 1L	Ph3 (ASC4FIRST)		Ph3 ASC4FIRST readout in Q1
	Zolgensma® SMA IT		Ph3 (STEER)	On track
	XXB750 Hypertension		Ph2	NVS will not advance further development following current scientific assessment and review of available data
<b>Ph3 starts</b>	Pluvicto® oligometastatic PC	Ph3		Ph3 PSMA-DC started in Q1
	Opnurasib 1L NSCLC (combo) <sup>1</sup>	Ph2/3		Program discontinued to prioritize other key programs in portfolio

Adj.BC – Adjuvant breast cancer. C3G – complement 3 glomerulopathy. CML – chronic myeloid leukemia. CSU – chronic spontaneous urticaria. GEP-NET – gastroenteropancreatic neuroendocrine tumors. IgAN – immunoglobulin A nephropathy. mCRPC – metastatic castration-resistant prostate cancer. NSCLC – non-small cell lung cancer. PNH – paroxysmal nocturnal hemoglobinuria. SMA – spinal muscular atrophy. 1. This is a seamless Ph2/3 trial.



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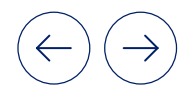
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# Financial review and 2024 guidance

**Harry Kirsch**

Chief Financial Officer





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## Q3 net sales grew +10% cc with core operating income up +20% cc<sup>1</sup>

Continuing Operations <sup>1,2</sup> USD million	Q3 2023	Q3 2024	Change vs PY		9M 2023	9M 2024	Change vs PY	
			% USD	% cc			% USD	% cc
Total Net Sales	11,782	12,823	9	10	34,017	37,164	9	11
Core operating income	4,405	5,145	17	20	12,551	14,635	17	20
Core margin	37.4%	40.1%	+2.7%pts	+3.4%pts	36.9%	39.4%	+2.5%pts	+3.2%pts
Operating income	1,762	3,627	106	123	7,187	11,014	53	61
Net Income	1,513	3,185	111	121	5,934	9,119	54	62
Core EPS	1.74	2.06	18	20	4.95	5.83	18	21
EPS	0.73	1.58	116	127	2.84	4.50	58	67
Free cash flow	5,043	5,965	18		11,019	12,618	15	

1. Constant currencies (cc), core results and free cash flow are non-IFRS measures. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY. 2. As defined on page 35 of the Interim Financial Report, Continuing operations include the retained business activities of Novartis, comprising the innovative medicines business and the continuing Corporate activities and Discontinued operations include operational results from the Sandoz business.



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# Raising 2024 sales and core operating income guidance<sup>1</sup>

Expected, barring unforeseen events; growth vs PY in cc<sup>1</sup>

## Net sales

expected to grow

**low double-digit**

(from high single to low double-digit)

## Core operating income

expected to grow

**high teens**

(from mid- to high teens)

### Key assumptions

- We assume Tassigna<sup>®</sup>, Promacta<sup>®</sup> and Entresto<sup>®</sup> US generic entry mid-2025 for forecasting purposes<sup>2</sup>

### FY guidance on other financial KPIs

- Core net financial result: Expenses expected to be around USD 0.7bn
- Core tax rate: Expected to be around 16.2%

See page 72 for references (footnotes 1-2). Constant currencies (cc) and core results are non-IFRS measures. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



# Continuing our shareholder-friendly capital allocation strategy

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## Investing in the business

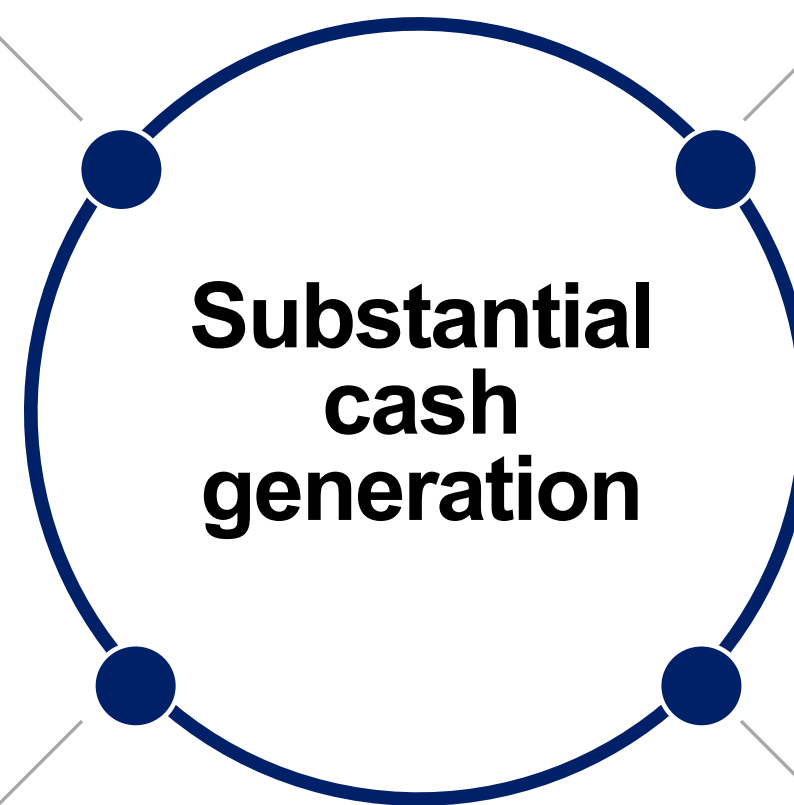
## Returning capital to shareholders

### Investments in organic business

Ongoing investment in R&D and CapEx

### Value-creating bolt-ons

Multiple early-stage deals to strengthen our RLT platform, renal pipeline and AI capabilities in 9M



### Consistently growing annual dividend<sup>1</sup>

USD 7.6bn dividend paid in H1 2024 not rebased post Sandoz

### Share buybacks

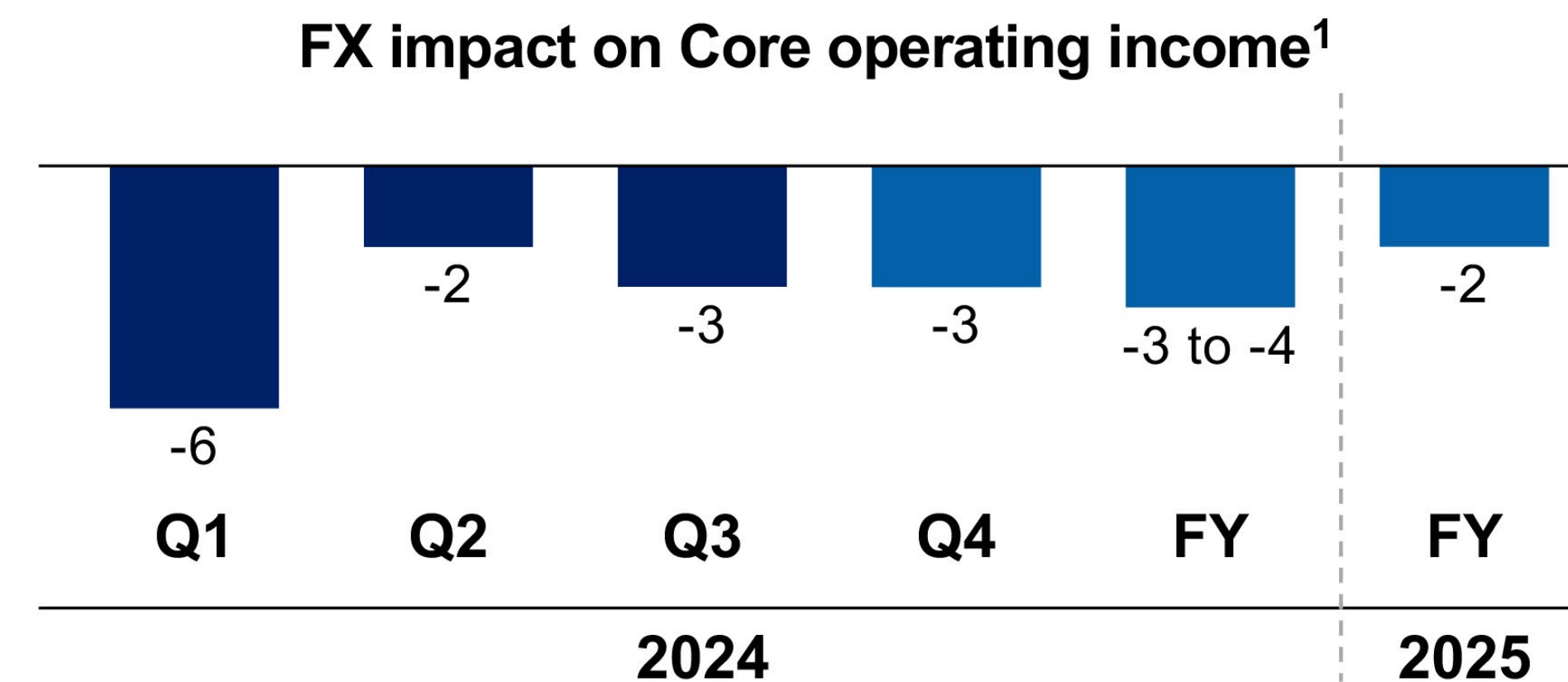
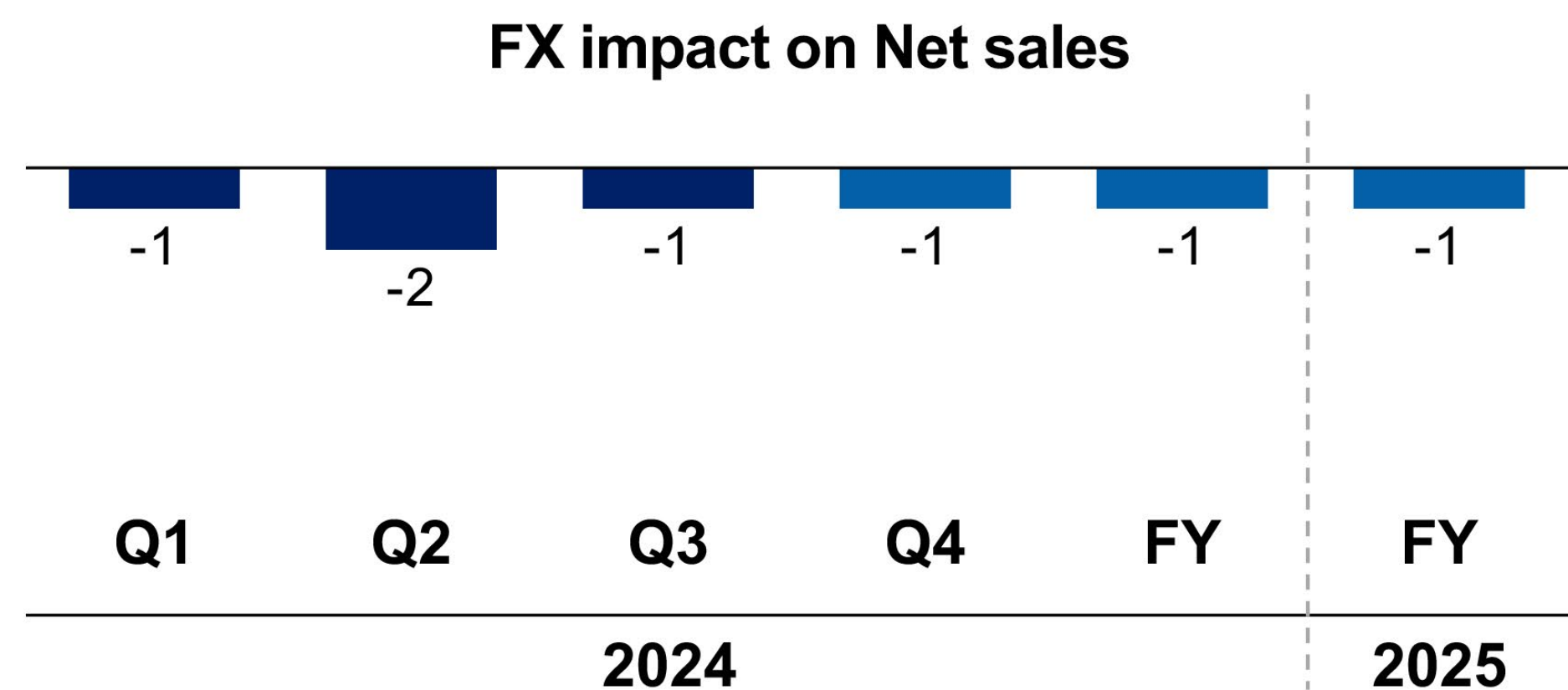
Up-to USD 15bn share buyback continuing, with up to USD 7.9bn still to be executed

1. In CHF.

# Expected currency impact for full year 2024 and 2025

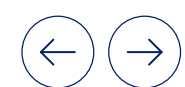
## Currency impact vs PY

%pts, assuming late-October exchange rates prevail in 2024 and 2025



Actual Simulation

1. Constant currencies (cc), core results are non-IFRS measures. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report.



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**Vas Narasimhan, M.D.**  
Chief Executive Officer





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**Continued strong business momentum in Q3**, with +10% net sales growth and +20% core operating income growth



**Raised FY 2024 guidance** for a third time



**Achieved important indication expansions** for Kisqali and Fabhalta, and completed FDA submission for Pluvicto PSMAfore



**On track to achieve our mid-term guidance** of +5% cc sales CAGR 2023-2028, with 40%+ core operating income margin by 2027

Constant currencies (cc) and core results are non-IFRS measures. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.





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# Join us in London for **Meet Novartis Management**

**November 20-21, 2024**





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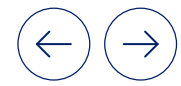
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# Appendix

# Our pipeline projects at a glance

	Phase 1/2	Phase 3	Registration	Total
<b>Oncology</b>	27	8	5	40
Solid tumors	21	3	4	28
Hematology	6	5	1	12
<b>Immunology</b>	18	8	0	26
<b>Neuroscience</b>	6	5	0	11
<b>Cardiovascular, Renal and Metabolic</b>	4	7	2	13
<b>Others</b> (thereof IB&GH)	10 (7)	4 (3)	(1)	15
	<b>65</b>	<b>32</b>	<b>9</b>	<b>105</b>

IB&GH: In-market Brands and Global Health.



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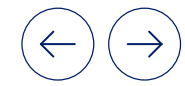
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# Novartis pipeline in Phase 1

## 19 lead indications

  Lead indication



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### Oncology

Code	Name	Mechanism	Indication(s)
<b>Solid tumors</b>			
AAA603	<sup>177</sup> Lu-NeoB	Radioligand therapy target GRPR	Breast cancer Glioblastoma multiforme
AAA604	AAA604	Radioligand therapy target integrin alpha-v, beta-3/beta-5	Solid tumors
AAA617	Pluvicto®	Radioligand therapy target PSMA	Metastatic neuroendocrine prostate cancer
AAA802	<sup>225</sup> Ac-PSMA-R2	Radioligand therapy target PSMA	Prostate cancer
AAA817	<sup>225</sup> Ac-PSMA-617	Radioligand therapy target PSMA	Metastatic castration-resistant prostate cancer
FXX489	<sup>177</sup> Lu-NNS309	Radioligand therapy	Solid tumors
GIZ943	GIZ943	-	Solid tumors
HRO761	HRO761	Werner inhibitor	Solid tumors
IAG933	IAG933	-	Mesothelioma
ITU512	ITU512	HbF inducing agent (WIZ degrader)	Sickle cell disease
JSB462	JSB462	Androgen receptor protein degrader	Prostate cancer
KFA115	KFA115	Novel immunomodulatory Agent	Solid tumors
MGY825	MGY825	-	NSCLC
QEQ278	QEQ278	NKG2D/-L pathway modulator	Solid tumors

### Hematology

DFV890	DFV890	NLRP3 inhibitor	Low risk myelodysplastic syndrome
PIT565	PIT565	-	B-cell malignancies
YTB323	rapcabtagene autoleucel	CD19 CAR-T	Adult ALL

### Cardiovascular, Renal and Metabolic

Code	Name	Mechanism	Indication(s)
DFV890	DFV890	NLRP3 inhibitor	Cardiovascular risk reduction

### Neuroscience

Code	Name	Mechanism	Indication(s)
DFT383	DFT383	CTNS gene delivery	Cystinosis pre/post kidney transplant
NIO752	NIO752	Tau antisense oligonucleotide	Alzheimer's disease Progressive supranuclear palsy
YTB323	rapcabtagene autoleucel	CD19 CAR-T	Multiple sclerosis

### Immunology

Code	Name	Mechanism	Indication(s)
IPX643	IPX643	-	Inflammation-driven diseases
MHV370	MHV370	TLR7, TLR8 Antagonist	Systemic lupus erythematosus
PIT565	PIT565	-	Systemic lupus erythematosus
YMI024	YMI024	-	Inflammation-driven diseases

### Others

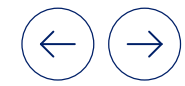
Code	Name	Mechanism	Indication(s)
EDI048	EDI048	CpPI(4)K inhibitor	Cryptosporidiosis

### IB&GH

# Novartis pipeline in Phase 2

20 lead indications

  Lead indication



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## Oncology

Code	Name	Mechanism	Indication(s)
<b>Solid tumors</b>			
AAA601	Lutathera®	Radioligand therapy target SSTR	GEPNET, pediatrics 1L ES-SCLC Glioblastoma
AAA603	<sup>177</sup> Lu-NeoB	Radioligand therapy target GRPR	Multiple solid tumors
AAA614	AAA614	Radioligand therapy target FAP	Solid tumors
DZR123	tulmimetostat	EZH1, EZH2 inhibitor	Solid tumors & lymphomas
<b>Hematology</b>			
ABL001	Scemblix®	BCR-ABL inhibitor	Chronic myeloid leukemia, 2L, pediatrics
PKC412	Rydapt®	Multi-targeted kinase inhibitor	Acute myeloid leukemia, pediatrics
YTB323	rapcabtagene autoleucel	CD19 CAR-T	1L high-risk large B-cell lymphoma

## Neuroscience

Code	Name	Mechanism	Indication(s)
DLX313 <sup>1</sup>	minzasolmin	Alpha-synuclein misfolding inhibitor	Parkinson's disease
VHB937	VHB937	TREM2 stabilizer and activator	Amyotrophic lateral sclerosis

## Cardiovascular, Renal and Metabolic

Code	Name	Mechanism	Indication(s)
LNP023	Fabhalta®	CFB inhibitor	Lupus nephritis ANCA associated vasculitis
TIN816	TIN816	ATP modulator	Acute kidney injury

## Immunology

Code	Name	Mechanism	Indication(s)
CFZ533	iscalimab	CD40 inhibitor	Sjögren's
DFV890	DFV890	NLRP3 inhibitor	Osteoarthritis
LNA043	LNA043	ANGPTL3 agonist	Osteoarthritis
LOU064	remibrutinib	BTK inhibitor	Food allergy Hidradenitis suppurativa
LRX712	LRX712	-	Osteoarthritis
MAS825	MAS825	IL1B, IL18 Inhibitor	NLRC4-GOF indications
MHV370	MHV370	TLR7, TLR8 Antagonist	Sjögren's
NGI226	NGI226	-	Tendinopathy
QUC398	QUC398	ADAMTS5 inhibitor	Osteoarthritis
RHH646	RHH646	-	Osteoarthritis
VAY736	ianalumab	BAFF-R inhibitor, ADCC-mediated B-cell depletor	Hidradenitis suppurativa Systemic sclerosis
YTB323	rapcabtagene autoleucel	CD19 CAR-T	srSLE/LN

## Others

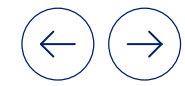
Code	Name	Mechanism	Indication(s)
<b>IB&amp;GH</b>			
EYU688	EYU688	NS4B inhibitor	Dengue fever
INE963	INE963	Plasmodium falciparum inhibitor)	Malaria, uncomplicated
KAE609	cipargamin	PfATP4 inhibitor	Malaria, severe Malaria, uncomplicated
LXE408	LXE408	Proteasome inhibitor	Visceral leishmaniasis
SEG101	Adakveo®	P-selectin inhibitor	Sickle cell disease, pediatrics
<b>Others</b>			
LNP023	Fabhalta®	CFB inhibitor	iAMD
LTP001	LTP001	SMURF1 inhibitor	Pulmonary arterial hypertension Idiopathic pulmonary fibrosis

1. Novartis is developing minzasolmin jointly in collaboration with UCB; DLX313 is the Novartis compound code for UCB0599.

# Novartis pipeline in Phase 3

## 6 lead indications

  Lead indication



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### Oncology

Code	Name	Mechanism	Indication(s)
<b>Solid tumors</b>			
AAA617	Pluvicto®	Radioligand therapy target PSMA	Metastatic hormone sensitive prostate cancer (mHSPC) Oligometastatic prostate cancer
BYL719	Vijoice®	PI3K-alpha inhibitor	Lymphatic malformations
<b>Hematology</b>			
DAK539	pelabresib	BET inhibitor	Myelofibrosis
LNP023	Fabhalta®	CFB inhibitor	Atypical hemolytic uraemic syndrome
VAY736	ianalumab	BAFF-R inhibitor, ADCC-mediated B-cell depletor	1L Immune Thrombocytopenia 2L Immune Thrombocytopenia warm Autoimmune Hemolytic Anemia

### Cardiovascular, Renal and Metabolic

Code	Name	Mechanism	Indication(s)
FUB523	zigakibart	Anti-APRIL	IgA nephropathy
KJX839	Leqvio®	siRNA (regulation of LDL-C)	CVRR-LDLC Primary prevention Hyperlipidemia, pediatrics
LNP023	Fabhalta®	CFB inhibitor	C3 glomerulopathy, pediatrics IC-MPGN
TQJ230	pelacarsen	ASO targeting Lp(a)	Secondary prevention of cardiovascular events in patients with elevated levels of lipoprotein (a) (CVRR-Lp(a))

### Neuroscience

Code	Name	Mechanism	Indication(s)
BAF312	Mayzent®	S1P1,5 receptor modulator	Multiple sclerosis, pediatrics
LNP023	Fabhalta®	CFB inhibitor	Myasthenia gravis
LOU064	remibrutinib	BTK inhibitor	Multiple sclerosis
OAV101	AVXS-101	SMN1 gene replacement therapy	SMA IT administration
OMB157	Kesimpta®	CD20 Antagonist	Multiple sclerosis, pediatrics

### Immunology

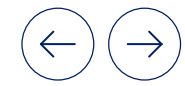
Code	Name	Mechanism	Indication(s)
AIN457	Cosentyx®	IL17A inhibitor	Giant cell arteritis Polymyalgia rheumatica
LOU064	remibrutinib	BTK inhibitor	Chronic spontaneous urticaria Chronic spontaneous urticaria, pediatrics Chronic inducible urticaria
VAY736	ianalumab	BAFF-R inhibitor, ADCC-mediated B-cell depletor	Sjögren's Lupus Nephritis Systemic lupus erythematosus

### Others

Code	Name	Mechanism	Indication(s)
<b>IB&amp;GH</b>			
AMG334	Aimovig®	CGRPR antagonist	Migraine, pediatrics
KLU156	Ganaplacide + lumefantrine	Non-artemisinin plasmodium falciparum inhibitor	Malaria, uncomplicated
QMF149	Ateectura®	LABA + ICS	Asthma, pediatrics
<b>Others</b>			
RTH258	Beovu®	VEGF Inhibitor	Diabetic retinopathy

1 lead indication

# Novartis pipeline in registration



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## Oncology

Code	Name	Mechanism	Indication(s)
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### Solid tumors

AAA601 <sup>1</sup>	Lutathera <sup>®</sup>	Radioligand therapy target SSTR	Gastroenteropancreatic neuroendocrine tumors (GEP-NET), 1st line in G2/3 tumors
AAA617	Pluvicto <sup>®</sup>	Radioligand therapy target PSMA	Metastatic castration-resistant prostate cancer (mCRPC), pre-taxane
INC424	Jakavi <sup>®</sup>	JAK1/2 inhibitor	Acute GVHD, pediatrics Chronic GVHD, pediatrics

### Hematology

ABL001	Scemblix <sup>®</sup>	BCR-ABL inhibitor	Chronic myeloid leukemia, 1st line
--------	-----------------------	-------------------	------------------------------------

## Cardiovascular, Renal and Metabolic

Code	Name	Mechanism	Indication(s)
------	------	-----------	---------------

EXV811	atrasentan	ET <sub>A</sub> receptor antagonist	IgA nephropathy
LNP023	Fabhalta <sup>®</sup>	CFB inhibitor	C3 glomerulopathy

## Others

Code	Name	Mechanism	Indication(s)
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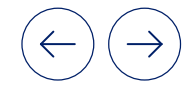
### IB&GH

COA566	Coartem <sup>®</sup>	Artemisinin combination therapy	Malaria, uncomplicated (<5kg patients)
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1. <sup>177</sup>Lu-dotatate in US.

# Novartis submission schedule

## New Molecular Entities: Lead and supplementary indications



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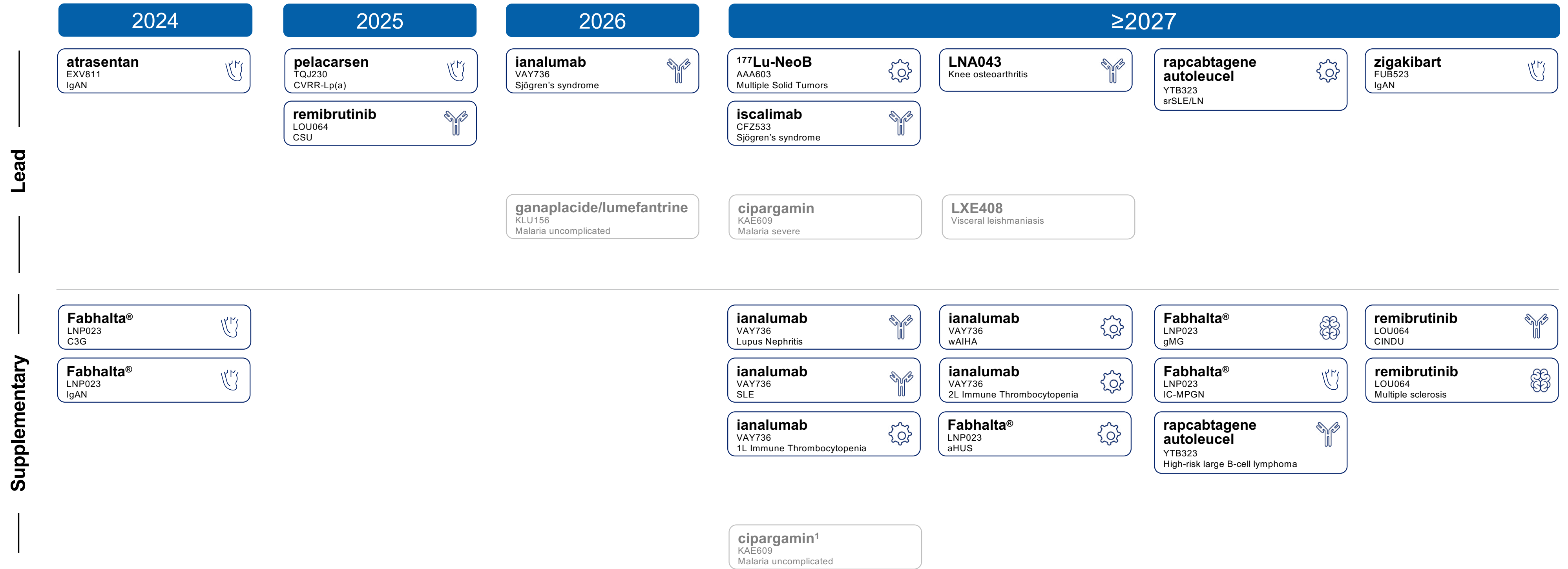
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- Immunology
- Neuroscience
- Oncology
- Non-core TA project



1. Part of triple combination therapy.

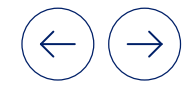


# Novartis submission schedule

## Supplementary indications for existing brands



1. <sup>177</sup>Lu-dotatate in US. 2. Event-driven trial endpoint. 3. Kesimpta and Mayzent: Pediatric trial in multiple sclerosis run in conjunction (NEOS).



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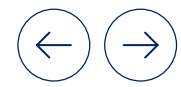
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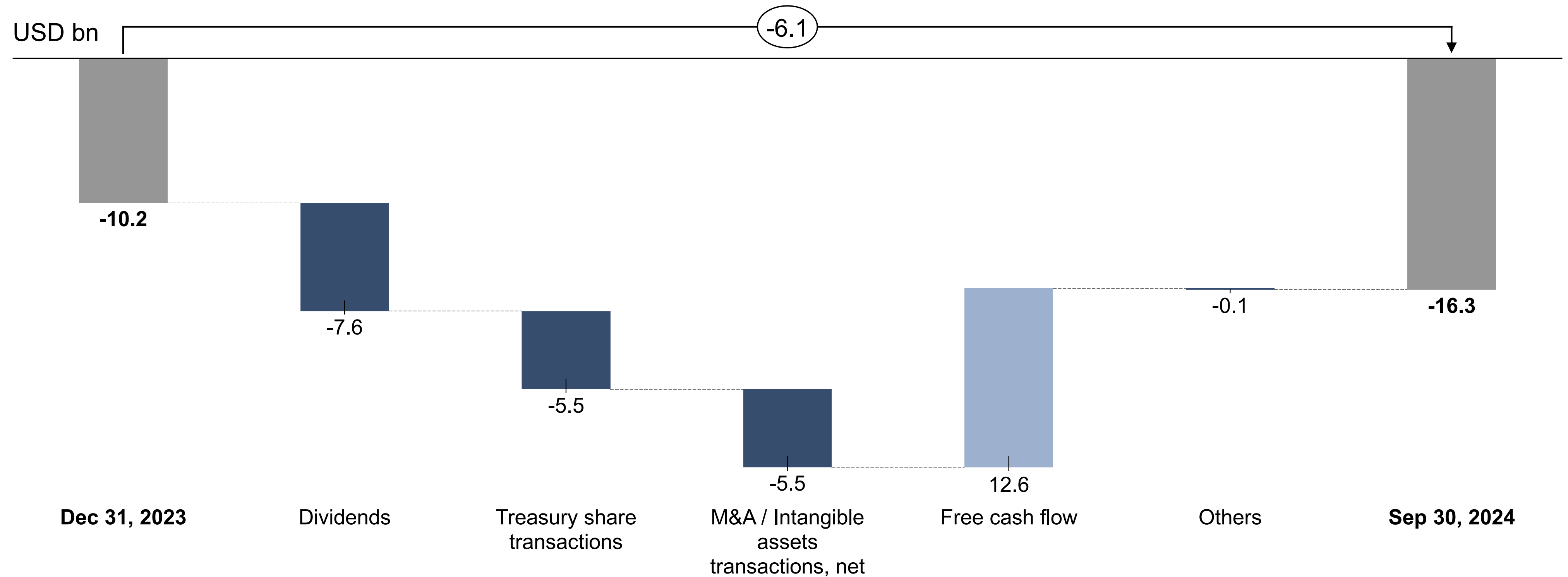
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# Net debt increased by USD 6.1bn due to the annual dividend, share buybacks and M&A, partially offset by FCF



Free cash flow is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



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# Clinical Trials Update

Includes selected ongoing or recently concluded global trials of Novartis development programs/products which are in confirmatory development or marketed (typically Phase 2b or later).

For further information on all Novartis clinical trials, please visit:  
[www.novartisclinicaltrials.com](http://www.novartisclinicaltrials.com)



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# Cardiovascular, Renal and Metabolic



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# atrasentan - ETA receptor antagonist

## NCT04573478 ALIGN (CHK01-01)

<b>Indication</b>	IgA nephropathy
<b>Phase</b>	Phase 3
<b>Patients</b>	380
<b>Primary Outcome Measures</b>	Change in proteinuria Time Frame: Up to Week 24 or approximately 6 months Annualized total estimated Glomerular Filtration Rate (eGFR) slope estimated over 24 months
<b>Arms Intervention</b>	Arm 1 Experimental: Atrasentan, once daily oral administration of 0.75 mg atrasentan for 132 weeks Arm 2 Placebo comparator: Placebo once daily oral administration of placebo for 132 weeks
<b>Target Patients</b>	Patients with IgA nephropathy (IgAN) at risk of progressive loss of renal function
<b>Readout Milestone(s)</b>	2023 (primary endpoint for US initial submission) 2026 (24 months)
<b>Publication</b>	TBD



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# Fabhalta<sup>®</sup> - CFB inhibitor

## NCT04578834 APPLAUSE-IgAN (CLNP023A2301)

<b>Indication</b>	IgA nephropathy
<b>Phase</b>	Phase 3
<b>Patients</b>	450
<b>Primary Outcome Measures</b>	Ratio to baseline in urine protein to creatinine ratio (sampled from 24h urine collection) at 9 months Annualized total estimated Glomerular Filtration Rate (eGFR) slope estimated over 24 months
<b>Arms Intervention</b>	Arm 1 - LNP023 200mg BID Arm 2 - Placebo BID
<b>Target Patients</b>	Primary IgA Nephropathy patients
<b>Readout Milestone(s)</b>	2023 (primary endpoint for US initial submission, 9 months UPCR) 2025 (24 months)
<b>Publication</b>	TBD

# Fabhalta<sup>®</sup> - CFB inhibitor

## NCT05755386 APPARENT (CLNP023B12302)

<b>Indication</b>	Immune complex-mediated membranoproliferative glomerulonephritis
<b>Phase</b>	Phase 3
<b>Patients</b>	68
<b>Primary Outcome Measures</b>	Log-transformed ratio to baseline in UPCR (sampled from a 24-hour urine collection) at 6 months. [ Time Frame: 6 months (double-blind) ] <i>To demonstrate the superiority of iptacopan compared to placebo in reducing proteinuria at 6 months.</i> Log-transformed ratio to baseline in UPCR at the 12-month visit (both study treatment arms) [ Time Frame: 12 months ] <i>To evaluate the effect of iptacopan on proteinuria at 12 months.</i> Log-transformed ratio to 6-month visit in UPCR at the 12-month visit in the placebo arm. [ Time Frame: 12 months ] <i>To evaluate the effect of iptacopan on proteinuria at 12 months.</i>
<b>Arms Intervention</b>	Arm 1 experimental: Drug: iptacopan 200 mg b.i.d. (Adults 200mg b.i.d; Adolescents 2x 100mg b.i.d) Arm 2 placebo to iptacopan 200mg b.i.d. (both on top of SoC)
<b>Target Patients</b>	Patients (adults and adolescents aged 12-17 years) with idiopathic IC-MPGN
<b>Readout Milestone(s)</b>	2026
<b>Publication</b>	Vivarelli M, et al., Kidney International Reports (2023), Iptacopan in idiopathic immune complex-mediated membranoproliferative glomerulonephritis: Protocol of the APPARENT multicenter, randomized Phase III study



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# Leqvio® - siRNA (regulation of LDL-C)

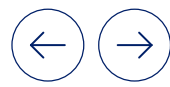
## NCT03705234 ORION-4 (CKJX839B12301)

<b>Indication</b>	Hypercholesterolemia inc. Heterozygous Familial Hypercholesterolaemia (HeFH)
<b>Phase</b>	Phase 3
<b>Patients</b>	16124
<b>Primary Outcome Measures</b>	A composite of major adverse cardiovascular events, defined as: Coronary heart disease (CHD) death; Myocardial infarction; Fatal or non-fatal ischaemic stroke; or Urgent coronary revascularization procedure
<b>Arms Intervention</b>	Arm 1: every 6 months treatment Inclisiran sodium 300mg (given by subcutaneous injection on the day of randomization, at 3 months and then every 6-months) for a planned median duration of about 5 years Arm 2: matching placebo (given by subcutaneous injection on the day of randomization, at 3 months and then every 6 months) for a planned median duration of about 5 years.
<b>Target Patients</b>	Patient population with mean baseline LDL-C $\geq$ 100mg/dL
<b>Readout Milestone(s)</b>	2026
<b>Publication</b>	TBD

# Leqvio® - siRNA (regulation of LDL-C)

## NCT05030428 VICTORION-2P (CKJX839B12302)

<b>Indication</b>	Secondary prevention of cardiovascular events in patients with elevated levels of LDL-C
<b>Phase</b>	Phase 3
<b>Patients</b>	16970
<b>Primary Outcome Measures</b>	1. Time to First Occurrence of 3P-MACE (3-Point Major Adverse Cardiovascular Events)
<b>Arms Intervention</b>	Arm 1: Experimental Inclisiran sodium, Subcutaneous injection Arm 2: Placebo Comparator, Placebo Subcutaneous injection
<b>Target Patients</b>	Participants with established cardiovascular disease (CVD)
<b>Readout Milestone(s)</b>	2027
<b>Publication</b>	TBD



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# Leqvio® - siRNA (regulation of LDL-C)

## NCT04652726 ORION-16 (CKJX839C12301)

<b>Indication</b>	Hyperlipidemia, pediatrics
<b>Phase</b>	Phase 3
<b>Patients</b>	141
<b>Primary Outcome Measures</b>	Percentage (%) change in low-density lipoprotein cholesterol (LDL-C) from baseline to Day 330
<b>Arms Intervention</b>	Group 1: Inclisiran sodium 300mg on Days 1, 90, 270, placebo on Day 360, inclisiran sodium 300mg on Days 450 and 630 Group 2: Placebo on Days 1, 90, 270, inclisiran sodium 300mg on Days 360, 450 and 630.
<b>Target Patients</b>	Adolescents (12 to less than 18 years) with heterozygous familial hypercholesterolemia (HeFH) and elevated low density lipoprotein cholesterol (LDL-C)
<b>Readout Milestone(s)</b>	2025
<b>Publication</b>	Publication Design publication (O-16/-13) in Eur. J. Prev. Cardiol. Vol. 29, Feb. 2022 Presentation at EAS May-2022 on O-13/-16 study design

# Leqvio® - siRNA (regulation of LDL-C)

## NCT04659863 ORION-13 (CKJX839C12302)

<b>Indication</b>	Hyperlipidemia, pediatrics
<b>Phase</b>	Phase 3
<b>Patients</b>	13
<b>Primary Outcome Measures</b>	Percentage (%) change in low-density lipoprotein cholesterol (LDL-C) from baseline to day 330
<b>Arms Intervention</b>	Group 1: Inclisiran sodium 300mg on Days 1, 90, 270, placebo on Day 360, inclisiran sodium 300mg on Days 450 and 630. Group 2: Placebo on Days 1, 90, 270, inclisiran sodium 300mg on Days 360, 450 and 630.
<b>Target Patients</b>	Adolescents (12 to less than 18 years) with homozygous familial hypercholesterolemia (HoFH) and elevated low density lipoprotein cholesterol (LDL-C)
<b>Readout Milestone(s)</b>	2025
<b>Publication</b>	Publication Design publication (O-16/-13) in Eur. J. Prev. Cardiol. Vol. 29, Feb. 2022 Presentation at EAS May-2022 on O-13/-16 study design





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# Leqvio® - siRNA (regulation of LDL-C)

## NCT05739383 VICTORION-1P (CKJX839D12302)

<b>Indication</b>	CVRR (Primary prevention)
<b>Phase</b>	Phase 3
<b>Patients</b>	14000
<b>Primary Outcome Measures</b>	Time to the first occurrence of 4P-MACE 4-Point-Major Adverse Cardiovascular Events (4P-MACE): composite of cardiovascular death, non-fatal myocardial infarction, non-fatal ischemic stroke, and urgent coronary revascularization
<b>Arms Intervention</b>	Arm 1 Experimental: Inclisiran Sodium 300mg, subcutaneous injection in pre-filled syringe Arm 2 Placebo
<b>Target Patients</b>	High-risk primary prevention patients
<b>Readout Milestone(s)</b>	2029
<b>Publication</b>	TBD

# Leqvio® - siRNA (regulation of LDL-C)

## NCT05763875 V-Mono (CKJX839D12304)

<b>Indication</b>	CVRR (Primary prevention)
<b>Phase</b>	Phase 3
<b>Patients</b>	350
<b>Primary Outcome Measures</b>	1. Percentage change in Low-density Lipoprotein Cholesterol (LDL-C) from baseline to day 150 compared with placebo [ Time Frame: Baseline, Day 150 ]  2. Percentage change in LDL-C from baseline to day 150 compared with ezetimibe [ Time Frame: Baseline, Day 150 ]
<b>Arms Intervention</b>	Arm 1 Experimental: Inclisiran s.c and Placebo p.o Arm 2 Active Comparator: Placebo s.c. and Ezetimibe p.o. Arm 3 Placebo Comparator: Placebo s.c. and Placebo p.o.
<b>Target Patients</b>	Adult patients with primary hypercholesterolemia not receiving any lipid-lowering therapy (LLT), with a 10-year Atherosclerotic Cardiovascular Disease (ASCVD) risk of less than 7.
<b>Readout Milestone(s)</b>	2024
<b>Publication</b>	TBD



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# pelacarsen - Antisense oligonucleotide (ASO) targeting Lp(a)

## NCT04023552 Lp(a)HORIZON (CTQJ230A12301)

<b>Indication</b>	Secondary prevention of cardiovascular events in patients with elevated levels of lipoprotein(a)
<b>Phase</b>	Phase 3
<b>Patients</b>	8323
<b>Primary Outcome Measures</b>	Time to the first occurrence of MACE (cardiovascular death, non-fatal MI, non-fatal stroke and urgent coronary re-vascularization)
<b>Arms Intervention</b>	TQJ230 80 mg injected monthly subcutaneously or matched placebo
<b>Target Patients</b>	Patients with a history of Myocardial infarction or Ischemic Stroke, or a clinically significant symptomatic Peripheral Artery Disease, and Lp(a) $\geq$ 70 mg/dL
<b>Readout Milestone(s)</b>	2025 (Event driven)
<b>Publication</b>	TBD



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# zigakibart - Anti-APRIL

## NCT05852938 BEYOND (CFUB523A12301)

<b>Indication</b>	IgA nephropathy
<b>Phase</b>	Phase 3
<b>Patients</b>	292
<b>Primary Outcome Measures</b>	Change in proteinuria [ Time Frame: 40 weeks or approximately 9 months ]
<b>Arms Intervention</b>	Arm 1 Experimental: BION-1301 (Zigakibart) 600mg subcutaneous administration every 2 weeks for 104 weeks Arm 2 Placebo Comparator: Placebo subcutaneous administration every 2 weeks for 104 weeks
<b>Target Patients</b>	Adults with IgA Nephropathy
<b>Readout Milestone(s)</b>	2026
<b>Publication</b>	WCN Poster April 2024: BEYOND: A Phase 3, Randomized, Double-Blind, Placebo-controlled Trial of Zigakibart in Adults with IgA Nephropathy. Trimarchi H., et. al.



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## Cosentyx<sup>®</sup> - IL-17A inhibitor

### NCT05767034 REPLENISH (CAIN457C22301)

<b>Indication</b>	Polymyalgia rheumatica
<b>Phase</b>	Phase 3
<b>Patients</b>	360
<b>Primary Outcome Measures</b>	Proportion of participants achieving sustained remission
<b>Arms Intervention</b>	Arm 1 Experimental: Secukinumab 300 mg, randomized in 1:1:1 ratio every 4 weeks Arm 2 Experimental: Secukinumab 150 mg, randomized in 1:1:1 ratio every 4 weeks Arm 3 Placebo : randomized in 1:1:1 ratio every 4 weeks
<b>Target Patients</b>	Adult patients with PMR who have recently relapsed
<b>Readout Milestone(s)</b>	2025
<b>Publication</b>	TBD

## Cosentyx<sup>®</sup> - IL-17A inhibitor

### NCT04930094 GCAPTAIN (CAIN457R12301)

<b>Indication</b>	Giant cell arteritis
<b>Phase</b>	Phase 3
<b>Patients</b>	349
<b>Primary Outcome Measures</b>	Number of participants with sustained remission
<b>Arms Intervention</b>	Experimental: Secukinumab 150 and 300 mg Placebo Comparator: Placebo
<b>Target Patients</b>	Patients with Giant Cell Arteritis (GCA)
<b>Readout Milestone(s)</b>	Primary 2025
<b>Publication</b>	TBD



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# ianalumab - BAFF-R inhibitor, ADCC-mediated B-cell depletor

## NCT05126277 SIRIUS-LN (CVAY736K12301)

<b>Indication</b>	Lupus Nephritis
<b>Phase</b>	Phase 3
<b>Patients</b>	420
<b>Primary Outcome Measures</b>	Frequency and percentage of participants achieving complete renal response (CRR) [ Time Frame: week 72 ]
<b>Arms Intervention</b>	Arm 1: Experimental - ianalumab s.c. q4w in addition to standard of care (SoC) Arm 2: Experimental - ianalumab s.c. q12w in addition to SoC Arm 3: Placebo comparator - Placebo s.c. q4w in addition to SoC
<b>Target Patients</b>	Patients with active Lupus Nephritis
<b>Readout Milestone(s)</b>	Primary 2027
<b>Publication</b>	TBD



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# ianalumab - BAFF-R inhibitor, ADCC-mediated B-cell depletor

## NCT05349214 NEPTUNUS-2 (CVAY736A2302)

<b>Indication</b>	Sjögren's syndrome
<b>Phase</b>	Phase 3
<b>Patients</b>	505
<b>Primary Outcome Measures</b>	Change from baseline in EULAR Sjögren Syndrome Disease Activity Index (ESSDAI) score at Week 48 as compared to placebo
<b>Arms Intervention</b>	Arm 1: Experimental - ianalumab exposure level 1 Arm 2: Experimental - ianalumab exposure level 2 Arm 3: Placebo comparator
<b>Target Patients</b>	Patients with active Sjogren's syndrome
<b>Readout Milestone(s)</b>	Primary 2025
<b>Publication</b>	TBD

# ianalumab - BAFF-R inhibitor, ADCC-mediated B-cell depletor

## NCT05350072 NEPTUNUS-1 (CVAY736A2301)

<b>Indication</b>	Sjögren's syndrome
<b>Phase</b>	Phase 3
<b>Patients</b>	276
<b>Primary Outcome Measures</b>	Change from baseline in EULAR Sjögren Syndrome Disease Activity Index (ESSDAI) score at Week 48 as compared to placebo
<b>Arms Intervention</b>	Arm 1: Experimental - ianalumab Arm 2: Placebo comparator
<b>Target Patients</b>	Patients with active Sjogren's syndrome
<b>Readout Milestone(s)</b>	Primary 2025
<b>Publication</b>	TBD



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# ianalumab - BAFF-R inhibitor, ADCC-mediated B-cell depletor

## NCT05639114 SIRIUS-SLE 1 (CVAY736F12301)

<b>Indication</b>	Systemic lupus erythematosus
<b>Phase</b>	Phase 3
<b>Patients</b>	406
<b>Primary Outcome Measures</b>	Proportion of participants on monthly ianalumab achieving Systemic Lupus Erythematosus Responder Index -4 (SRI-4) [ Time Frame: Week 60 ]
<b>Arms Intervention</b>	Experimental: ianalumab s.c. monthly Experimental: ianalumab s.c. quarterly Placebo Comparator: Placebo s.c. monthly
<b>Target Patients</b>	Patients with active systemic lupus erythematosus (SLE)
<b>Readout Milestone(s)</b>	2027
<b>Publication</b>	TBD

# ianalumab - BAFF-R inhibitor, ADCC-mediated B-cell depletor

## NCT05624749 SIRIUS-SLE 2 (CVAY736F12302)

<b>Indication</b>	Systemic lupus erythematosus
<b>Phase</b>	Phase 3
<b>Patients</b>	280
<b>Primary Outcome Measures</b>	Proportion of participants achieving Systemic Lupus Erythematosus Responder Index -4 (SRI-4) [ Time Frame: Week 60 ]
<b>Arms Intervention</b>	Experimental: ianalumab s.c. monthly Placebo Comparator: placebo s.c. monthly
<b>Target Patients</b>	Patients with active systemic lupus erythematosus (SLE)
<b>Readout Milestone(s)</b>	2027
<b>Publication</b>	TBD





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# LNA043 - ANGPTL3 agonist

## NCT04864392 ONWARDS (CLNA043A12202)

<b>Indication</b>	Knee osteoarthritis
<b>Phase</b>	Phase 2
<b>Patients</b>	576
<b>Primary Outcome Measures</b>	Change from baseline in the cartilage thickness of the medial compartment of the knee as assessed by imaging
<b>Arms Intervention</b>	LNA043 injection to the knee with dosing regimen A LNA043 injection to the knee with dosing regimen B LNA043 injection to the knee with dosing regimen C LNA043 injection to the knee with dosing regimen D Placebo injection to the knee
<b>Target Patients</b>	Patients with Symptomatic knee osteoarthritis
<b>Readout Milestone(s)</b>	Primary 2024
<b>Publication</b>	TBD



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## remibrutinib - BTK inhibitor

### NCT05030311 REMIX-1 (CLOU064A2301)

<b>Indication</b>	Chronic spontaneous urticaria
<b>Phase</b>	Phase 3
<b>Patients</b>	470
<b>Primary Outcome Measures</b>	Two independent endpoint scenarios: 1. Change from baseline in UAS7 (Scenario 1 with UAS7 as primary efficacy endpoint) 2. Absolute change in ISS7 an absolute change in HSS7 (Scenario 2 with ISS7 and HSS7 as co-primary efficacy endpoints)
<b>Arms Intervention</b>	Arm 1: LOU064 (blinded) LOU064 (blinded) taken orally b.i.d. for 24 weeks, followed by LOU064 (open-label) taken orally open label for 28 weeks. Arm 2: LOU064 placebo (blinded) LOU064 placebo (blinded) taken orally for 24 weeks, followed by LOU064 (open-label) taken orally for 28 weeks. Randomized in a 2:1 ratio (arm 1:arm 2) Eligible participants randomized to the treatment arms in a 2:1 ratio (arm 1: arm 2)
<b>Target Patients</b>	Adult participants suffering from chronic spontaneous urticaria (CSU) inadequately controlled by H1-antihistamines in comparison to placebo
<b>Readout Milestone(s)</b>	Actual (2024)
<b>Publication</b>	24 weeks data at ACAAI Nov 2023 52 weeks data at EAACI May 2024

## remibrutinib - BTK inhibitor

### NCT05032157 REMIX-2 (CLOU064A2302)

<b>Indication</b>	Chronic spontaneous urticaria
<b>Phase</b>	Phase 3
<b>Patients</b>	455
<b>Primary Outcome Measures</b>	Two independent endpoint scenarios: 1. Change from baseline in UAS7 (Scenario 1 with UAS7 as primary efficacy endpoint) 2. Absolute change in ISS7 an absolute change in HSS7 (Scenario 2 with ISS7 and HSS7 as co-primary efficacy endpoints)
<b>Arms Intervention</b>	Arm 1: LOU064 (blinded) LOU064A (blinded) taken orally b.i.d. for 24 weeks, followed by LOU064 (open-label) taken orally open label for 28 weeks Arm 2: LOU064 placebo (blinded) LOU064A placebo (blinded) taken orally for 24 weeks, followed by LOU064 (open-label) taken orally open label for 28 weeks Eligible participants randomized to the treatment arms in a 2:1 ratio (arm 1: arm 2)
<b>Target Patients</b>	Adult participants suffering from chronic spontaneous urticaria (CSU) inadequately controlled by H1-antihistamines in comparison to placebo
<b>Readout Milestone(s)</b>	Actual (2024)
<b>Publication</b>	24 weeks data at ACAAI Nov 2023 52 weeks data at EAACI May 2024



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# remibrutinib - BTK inhibitor

## NCT05976243 (CLOU064M12301)

<b>Indication</b>	Chronic inducible urticaria
<b>Phase</b>	Phase 3
<b>Patients</b>	348
<b>Primary Outcome Measures</b>	<ol style="list-style-type: none"> <li>1. Proportion of participants with complete response in Total Fric Score; symptomatic dermographism [ Time Frame: Week 12 ]</li> <li>2. Proportion of participants with complete response in critical temperature threshold; cold urticaria [ Time Frame: Week 12 ]</li> <li>3. Proportion of participants with itch numerical rating scale =0; cholinergic urticaria [ Time Frame: Week 12 ]</li> </ol>
<b>Arms Intervention</b>	<p>All arms oral, twice daily:</p> <p>Arm 1 Experimental Remibrutinib, symptomatic dermographism group</p> <p>Arm 2 Placebo symptomatic dermographism group</p> <p>Arm 3 Experimental Remibrutinib, cold urticaria group</p> <p>Arm 4 Placebo cold urticaria group</p> <p>Arm 5 Experimental Remibrutinib, cholinergic urticaria group</p> <p>Arm 6 Placebo cholinergic urticaria group</p>
<b>Target Patients</b>	Adults suffering from CINDU inadequately controlled by H1-antihistamines
<b>Readout Milestone(s)</b>	2026
<b>Publication</b>	TBD



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# Mayzent® - S1P1,5 receptor modulator

## NCT04926818 NEOS (CBAF312D2301)

<b>Indication</b>	Multiple sclerosis, pediatrics
<b>Phase</b>	Phase 3
<b>Patients</b>	120
<b>Primary Outcome Measures</b>	Annualized relapse rate (ARR) in target pediatric participants
<b>Arms Intervention</b>	Arm 1: Experimental ofatumumab - 20 mg injection/ placebo Arm 2: Experimental siponimod - 0.5 mg, 1 mg or 2 mg/ placebo Arm 3: Active Comparator fingolimod - 0.5 mg or 0.25 mg/ placebo
<b>Target Patients</b>	Children/adolescent patients aged 10-17 years old with Multiple Sclerosis (MS). The targeted enrollment is 120 participants with multiple sclerosis which will include at least 5 participants with body weight (BW) ≤40 kg and at least 5 participants with age 10 to 12 years in each of the ofatumumab and siponimod arms. There is a minimum 6 month follow up period for all participants (core and extension). Total duration of the study could be up to 7 years.
<b>Readout Milestone(s)</b>	2027
<b>Publication</b>	TBD



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## remibrutinib - BTK inhibitor

### NCT05147220 REMODEL-1 (CLOU064C12301)

<b>Indication</b>	Multiple sclerosis
<b>Phase</b>	Phase 3
<b>Patients</b>	800
<b>Primary Outcome Measures</b>	Annualized relapse rate (ARR) of confirmed relapses [Core Part]. ARR is the average number of confirmed MS relapses in a year
<b>Arms Intervention</b>	Arm 1: Experimental; Remibrutinib - Core (Remibrutinib tablet and matching placebo of teriflunomide capsule) Arm 2: Active Comparator; Teriflunomide - Core (Teriflunomide capsule and matching placebo remibrutinib tablet) Arm 3: Experimental; Remibrutinib - Extension (Participants on remibrutinib in Core will continue on remibrutinib tablet) Arm 4: Experimental; Remibrutinib - Extension (on teriflunomide in Core) (Participants on teriflunomide in Core will switch to remibrutinib tablet)
<b>Target Patients</b>	Patients with relapsing Multiple Sclerosis
<b>Readout Milestone(s)</b>	Estimated primary completion 2026
<b>Publication</b>	TBD

## remibrutinib - BTK inhibitor

### NCT05156281 REMODEL-2 (CLOU064C12302)

<b>Indication</b>	Multiple sclerosis
<b>Phase</b>	Phase 3
<b>Patients</b>	800
<b>Primary Outcome Measures</b>	Annualized relapse rate (ARR) of confirmed relapses
<b>Arms Intervention</b>	Arm 1: Experimental; Remibrutinib – Core Remibrutinib tablet and matching placebo of teriflunomide capsule Arm 2: Active Comparator; Teriflunomide – Core Teriflunomide capsule and matching placebo remibrutinib tablet Arm 3: Experimental: Remibrutinib – Extension Participants on remibrutinib in Core will continue on remibrutinib tablet Arm 4: Experimental: Remibrutinib - Extension (on teriflunomide in Core) Participants on teriflunomide in Core will switch to remibrutinib tablet
<b>Target Patients</b>	Patients with relapsing Multiple Sclerosis
<b>Readout Milestone(s)</b>	Estimated primary completion 2026
<b>Publication</b>	TBD



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# Zolgensma® - SMN1 gene replacement therapy

## NCT05089656 STEER (COAV101B12301)

<b>Indication</b>	Spinal muscular atrophy (IT administration)
<b>Phase</b>	Phase 3
<b>Patients</b>	125
<b>Primary Outcome Measures</b>	1. Change from baseline in Hammersmith functional motor scale - Expanded (HFMSSE) total score at the end of follow-up period 1 in treated patients compared to sham controls in the $\geq 2$ to $< 18$ years age group
<b>Arms Intervention</b>	Arm 1: Experimental OAV101. Administered as a single, one-time intrathecal dose Arm 2: Sham Comparator: Sham control. A skin prick in the lumbar region without any medication.
<b>Target Patients</b>	Patients Type 2 Spinal Muscular Atrophy (SMA) who are $\geq 2$ to $< 18$ years of age, treatment naive, sitting, and never ambulatory
<b>Readout Milestone(s)</b>	2024
<b>Publication</b>	TBD

# Zolgensma® - SMN1 gene replacement therapy

## NCT05386680 STRENGTH (COAV101B12302)

<b>Indication</b>	Spinal muscular atrophy (IT administration)
<b>Phase</b>	Phase 3B
<b>Patients</b>	28
<b>Primary Outcome Measures</b>	Number and percentage of participants reporting AEs, related AEs, SAEs, and AESIs [ Time Frame: 52 weeks ]
<b>Arms Intervention</b>	Experimental: OAV-101 Single intrathecal administration of OAV101 at a dose of $1.2 \times 10^{14}$ vector genomes
<b>Target Patients</b>	Participants with SMA who discontinued treatment With Nusinersen or Risdiplam (STRENGTH)
<b>Readout Milestone(s)</b>	2024
<b>Publication</b>	TBD



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# Iptacopan - CFB inhibitor

## CLNP023Q12301

<b>Indication</b>	Generalized Myasthenia Gravis
<b>Phase</b>	Phase 3
<b>Patients</b>	146
<b>Primary Outcome Measures</b>	Change from baseline to Month 6 in Myasthenia Gravis Activity of Daily Living (MG-ADL) total score
<b>Arms Intervention</b>	Participants who meet the eligibility criteria will be randomized in a ratio of 1:1, to receive either iptacopan at a dose of 200 mg orally b.i.d or matching placebo
<b>Target Patients</b>	Patients with generalized MG who anti-AchR-positive and are not adequately responding to 2/3rd line SoC.
<b>Readout Milestone(s)</b>	2027
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# ianalumab - BAFF-R inhibitor, ADCC-mediated B-cell depletor

## NCT05653349 VAYHIT1 (CVAY736I12301)

<b>Indication</b>	1L Immune Thrombocytopenia
<b>Phase</b>	Phase 3
<b>Patients</b>	225
<b>Primary Outcome Measures</b>	Time from randomization to treatment failure (TTF)
<b>Arms Intervention</b>	Arm 1: Experimental: Ianalumab Lower dose administered intravenously with corticosteroids oral or parentally (if clinically justified) Arm 2: Ianalumab Higher dose administered intravenously with corticosteroids oral or parentally (if clinically justified) Arm 3: Placebo Comparator administered intravenously with corticosteroids oral or parentally (if clinically justified)
<b>Target Patients</b>	Adult patients with primary ITP
<b>Readout Milestone(s)</b>	2026
<b>Publication</b>	TBD

# ianalumab - BAFF-R inhibitor, ADCC-mediated B-cell depletor

## NCT05653219 VAYHIT2 (CVAY736Q12301)

<b>Indication</b>	2L Immune Thrombocytopenia
<b>Phase</b>	Phase 3
<b>Patients</b>	150
<b>Primary Outcome Measures</b>	Time from randomization to treatment failure (TTF)
<b>Arms Intervention</b>	Arm 1: Experimental: eltrombopag and ianalumab lower dose Arm 2: Experimental: eltrombopag and ianalumab higher dose Arm 3: eltrombopag and placebo
<b>Target Patients</b>	Primary ITP patients who failed steroids
<b>Readout Milestone(s)</b>	2025
<b>Publication</b>	TBD



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# lanalumab - BAFF-R inhibitor, ADCC-mediated B-cell depletor

## NCT05648968 VAYHIA (CVAY736O12301)

<b>Indication</b>	Warm autoimmune hemolytic anemia
<b>Phase</b>	Phase 3
<b>Patients</b>	90
<b>Primary Outcome Measures</b>	Binary variable indicating whether a patient achieves a durable response Durable response: hemoglobin level $\geq 10$ g/dL and $\geq 2$ g/dL increase from baseline, for a period of at least eight consecutive weeks between W9 and W25, in the absence of rescue medication or prohibited treatment
<b>Arms Intervention</b>	Arm 1: experimental lanalumab low dose (intravenously) Arm 2: experimental lanalumab high dose (intravenously) Arm 3: placebo Comparator (intravenously)
<b>Target Patients</b>	Previously treated patients with warm Autoimmune Hemolytic Anemia
<b>Readout Milestone(s)</b>	2026
<b>Publication</b>	TBD



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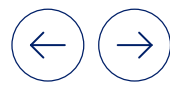
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# iptacopan - CFB inhibitor

## NCT04889430 APPELHUS (CLNP023F12301)

<b>Indication</b>	Atypical haemolytic uraemic syndrome
<b>Phase</b>	Phase 3
<b>Patients</b>	50
<b>Primary Outcome Measures</b>	Percentage of participants with complete TMA response without the use of PE/PI and anti-C5 antibody
<b>Arms Intervention</b>	Single arm open-label with 50 adult patients receiving 200mg oral twice daily doses of iptacopan
<b>Target Patients</b>	Adult patients with aHUS who are treatment naive to complement inhibitor therapy (including anti-C5 antibody)
<b>Readout Milestone(s)</b>	2026
<b>Publication</b>	TBD



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# Pluvicto® - Radioligand therapy target PSMA

## NCT04689828 PSMAfore (CAAA617B12302)

<b>Indication</b>	Metastatic castration-resistant prostate cancer, pre-taxane
<b>Phase</b>	Phase 3
<b>Patients</b>	450
<b>Primary Outcome Measures</b>	Radiographic Progression Free Survival (rPFS)
<b>Arms Intervention</b>	Arm 1: Participants will receive 7.4 GBq (200 mCi) +/- 10% <sup>177</sup> Lu-PSMA-617 once every 6 weeks for 6 cycles. Best supportive care, including ADT may be used Arm 2: For participants randomized to the ARDT arm, the change of ARDT treatment will be administered per the physician's orders. Best supportive care, including ADT may be used
<b>Target Patients</b>	mCRPC patients that were previously treated with an alternate ARDT and not exposed to a taxane-containing regimen in the CRPC or mHSPC settings
<b>Readout Milestone(s)</b>	Primary Analysis: 2022 (actual) Final Analysis: 2025
<b>Publication</b>	6 June 2024: SNMMI Abstract of the Year: [ <sup>177</sup> Lu]Lu-PSMA-617 Extends Progression-Free Survival with Manageable Safety Profile in Taxane-Naïve Advanced Prostate Cancer Patients

# Pluvicto® - Radioligand therapy target PSMA

## NCT04720157 PSMAddition (CAAA617C12301)

<b>Indication</b>	Metastatic hormone sensitive prostate cancer
<b>Phase</b>	Phase 3
<b>Patients</b>	1126
<b>Primary Outcome Measures</b>	Radiographic Progression Free Survival (rPFS)
<b>Arms Intervention</b>	Arm 1: <sup>177</sup> Lu-PSMA-617 Participant will receive 7.4 GBq (+/- 10%) <sup>177</sup> Lu-PSMA-617, once every 6 weeks for a planned 6 cycles, in addition to the Standard of Care (SOC); ARDT +ADT is considered as SOC and treatment will be administered per the physician's order Arm 2: For participants randomized to Standard of Care arm, ARDT +ADT is considered as SOC and treatment will be administered per the physician's order
<b>Target Patients</b>	Patients with metastatic Hormone Sensitive Prostate Cancer (mHSPC)
<b>Readout Milestone(s)</b>	Primary Analysis: 2025
<b>Publication</b>	TBD



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# Rydapt® - Multi-targeted kinase inhibitor

## NCT03591510 (CPKC412A2218)

<b>Indication</b>	Acute myeloid leukemia, pediatrics
<b>Phase</b>	Phase 2
<b>Patients</b>	20
<b>Primary Outcome Measures</b>	Occurrence of dose limiting toxicities Safety and Tolerability
<b>Arms Intervention</b>	Chemotherapy followed by Midostaurin
<b>Target Patients</b>	Newly diagnosed pediatric patients with FLT3 mutated acute myeloid leukemia (AML)
<b>Readout Milestone(s)</b>	2026
<b>Publication</b>	TBD



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# Scemblix® - BCR-ABL inhibitor

## NCT04971226 ASC4FIRST (CABL001J12301)

<b>Indication</b>	Chronic myeloid leukemia, 1st line
<b>Phase</b>	Phase 3
<b>Patients</b>	402
<b>Primary Outcome Measures</b>	Major Molecular Response (MMR) at week 48
<b>Arms Intervention</b>	Arm 1: asciminib 80 mg QD Arm 2: Investigator selected TKI including one of the below treatments: - Imatinib 400 mg QD - Nilotinib 300 mg BID - Dasatinib 100 mg QD - Bosutinib 400 mg QD
<b>Target Patients</b>	Patients with newly diagnosed philadelphia chromosome positive chronic myelogenous leukemia in chronic phase
<b>Readout Milestone(s)</b>	2024 (actual)
<b>Publication</b>	Asciminib in Newly Diagnosed Chronic Myeloid Leukemia," published in the New England Journal of Medicine on 31-May-2024. Data presented at ASCO 2024 congress



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# Vijoice® - PI3Ki

## NCT05948943 EPIK-L1 (CBYL719P12201)

<b>Indication</b>	Lymphatic Malformation
<b>Phase</b>	Phase 2/3
<b>Patients</b>	230
<b>Primary Outcome Measures</b>	Stage 2: Radiological response rate at Week 24 of Stage 2 (adult and pediatric (6 - 17 years of age) participants) Time Frame: Baseline, Week 24
<b>Arms Intervention</b>	Arm 1: Experimental. Adult participants, alpelisib dose 1 (Stage 1) Arm 2: Experimental. Adult participants, alpelisib dose 2 (Stage 1) Arm 3: Experimental. Pediatric participants (6-17 years of age), alpelisib dose 2 (Stage 1) Arm 4: Experimental. Pediatric participants (6-17 years of age), alpelisib dose 3 (Stage 1) Arm 5: Experimental. Adult participants, alpelisib (Stage 2) Arm 6: Placebo comparator. Adult participants, placebo (Stage 2) Arm 7: Experimental. Pediatric participants (6-17 years of age), alpelisib (Stage 2) Arm 8: Placebo Comparator. Pediatric participants (6-17 years of age), placebo (Stage 2) Arm 9: Experimental. Pediatric participants (2-5 years of age), alpelisib (Stage 2)
<b>Target Patients</b>	Pediatric and adult patients with lymphatic malformations associated with a PIK3CA mutation
<b>Readout Milestone(s)</b>	2030
<b>Publication</b>	TBD





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# Beovu® - VEGF Inhibitor

## NCT04278417 CONDOR (CRTH258D2301)

<b>Indication</b>	Diabetic retinopathy
<b>Phase</b>	Phase 3
<b>Patients</b>	694
<b>Primary Outcome Measures</b>	Change from Baseline in BCVA
<b>Arms Intervention</b>	Arm 1: RTH258 (brolucizumab) 6 mg/50uL Arm 2: Panretinal photocoagulation laser initial treatment followed with additional PRP treatment as needed
<b>Target Patients</b>	Patients with proliferative diabetic retinopathy
<b>Readout Milestone(s)</b>	2024
<b>Publication</b>	54 Week FIR for CONDOR presented at ARVO 08-09May 2024. Encore presentation for CONDOR planned for EU Retina for 19-22 Sep 2024



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# cipargamin - PfATP4 inhibitor

## NCT04675931 KARISMA (CKAE609B12201)

<b>Indication</b>	Malaria severe
<b>Phase</b>	Phase 2
<b>Patients</b>	252
<b>Primary Outcome Measures</b>	Percentage of participants achieving at least 90% reduction in Plasmodium falciparum (P. falciparum) at 12 hours [ Time Frame: Day 1 (12 Hours) ]
<b>Arms Intervention</b>	Age descending treatment evaluating IV KAE609 doses versus active comparator, IV Artesunate. Follow on therapy for all arms: Coartem, Standard of care
<b>Target Patients</b>	Patients with Malaria, severe
<b>Readout Milestone(s)</b>	2025
<b>Publication</b>	TBD



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# Coartem<sup>®</sup> - Artemisinin combination therapy

## NCT04300309 CALINA (CCOA566B2307)

<b>Indication</b>	Malaria, uncomplicated (<5kg patients)
<b>Phase</b>	Phase 3
<b>Patients</b>	44
<b>Primary Outcome Measures</b>	Artemether Cmax
<b>Arms Intervention</b>	Experimental: artemether lumefantrine (2.5 mg:30 mg) artemether lumefantrine (2.5 mg:30 mg) bid over 3 days, 2 dispersible tablets per dose
<b>Target Patients</b>	Infants and Neonates <5 kg body weight with acute uncomplicated plasmodium falciparum malaria
<b>Readout Milestone(s)</b>	Primary (actual) 2024 (final)
<b>Publication</b>	TBD



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References

# ganaplacide/lumefantrine - Non-artemisinin plasmodium falciparum inhibitor

## NCT05842954 KALUMA (CKLU156A12301 )

<b>Indication</b>	Malaria, uncomplicated
<b>Phase</b>	Phase 3
<b>Patients</b>	1500
<b>Primary Outcome Measures</b>	PCR-corrected adequate clinical and parasitological response (ACPR) at day 29
<b>Arms Intervention</b>	Arm 1 experimental: KLU156 oral; 400/480 mg (ganaplacide/ lumefantrine) is the fixed dose combination for patients with a bodyweight $\geq$ 35kg. Patients < 35kg will take a fraction of the dose according to weight group as defined in the protocol. Arm 2 active comparator: Coartem, oral, dosing will be selected based on patient's body weight as per product's label.
<b>Target Patients</b>	Adults and children $\geq$ 5 kg Body Weight with uncomplicated P. Falciparum Malaria
<b>Readout Milestone(s)</b>	2025
<b>Publication</b>	TBD



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## Entresto® (slide 6 references)

- 1 IQVIA National Prescription Audit.
- 2 AHA/ACC/HFSA/ESC.
- 3 Approved indications differ by geography. Examples include “indicated to reduce the risk of cardiovascular death and hospitalization for HF in adult patients with CHF. Benefits are most clearly evident in patients with LVEF below normal.” (US), HFrEF (EU), HFrEF and HTN (China) and CHF and HTN (JP). HTN is not an approved indication in the US and EU.
- 4 Timing of Entresto US generic entry is subject to ongoing patent and regulatory litigation.
- 5 Extension of regulatory data protection to November 2026 in EU based on approval of pediatric indication.

## Cosentyx® (slide 7 references)

- 1 Refers to NBRx. Indications: PsO and SpA combined. Source: IQVIA National Source of Business (NSOB) YTD September 6, 2024.
- 2 Refers to EU5. Indications: Pso, PsA, axSpA. Source: DE: IQVIA LRx; FR: IQVIA Ltd; UK: IQVIA Analyzer, Stethos; IT: Stethos, Elma (June 2024); ES: IQVIA, Amber Market Research (April 2024 data extrapolated to June).
- 3 Hospital value share. Market definition includes all approved immunology brands with at least one indication overlapping with Cosentyx" Source: IQVIA China Immunology Market Value Share (August 2024).
- 4 US, DE, UK, FR, ES, AU. Source: IQVIA.
- 5 IV formulation indication: PsA, AS, nr-axSpA. Source: IQVIA mastered 867 data.

## Kesimpta® (slide 8 references)

- 1 Data on file. January 2024.
- 2 Data on file and IQVIA. March 2024. Markets are as follows: Germany, Japan, China, Australia, Canada, France, UK.
- 3 Bar-Or et al. Early Initiation of Ofatumumab Delays Disability Progression in People With Relapsing Multiple Sclerosis: 6-Year Results From ALITHIOS Open-Label Extension Study. Poster P058 presented at the 40th Congress of the European Committee for Treatment and Research in Multiple Sclerosis, Copenhagen, Denmark; 18–20 September 2024.
- 4 Hua et al. Efficacy and Safety in Patients with Relapsing Multiple Sclerosis Who Switched to Subcutaneous Ofatumumab From Intravenous Anti-CD20 Therapies: Results From the US single-arm, open-label, Phase IIIb OLIKOS Study. Poster P405 presented at the 40th Congress of the European Committee for Treatment and Research in Multiple Sclerosis, Copenhagen, Denmark; 18–20 September 2024.

## Kisqali® (slide 9 references)

- 1 Of CDK4/6 mBC market, US rolling 3 months ending August 2024, IQVIA Breast Cancer Market Sizing report.
- 2 Of CDK4/6 mBC market, ex-US 3 months ending July 2024, IQVIA Breast Cancer Market Sizing report.



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## Kisqali® (slide 10 references)

- 1 Fasching PA. Adjuvant Ribociclib (RIB) Plus Nonsteroidal Aromatase Inhibitor (NSAI) in Patients (Pts) With HR+/HER2- Early Breast Cancer (EBC): 4-Year Outcomes From the NATALEE Trial. LBA13. Proffered Paper presented at the European Society for Medical Oncology Congress, September 16, 2024. Barcelona, Spain.
- 2 Pan H, Gray R, Braybrooke J, et al. 20-Year Risks of Breast-Cancer Recurrence after Stopping Endocrine Therapy at 5 Years. N Engl J Med. 2017;377(19):1836-1846.
- 3 Yardley D et al. Baseline (BL) characteristics and efficacy endpoints for patients (pts) with node-negative (N0) HR+/HER2- early breast cancer (EBC) in NATALEE. Presented at the American Society of Clinical Oncology Annual Meeting, May 31, 2024. Chicago, USA..

## Leqvio® (slide 12 references)

- 1 Includes PCSK9 monoclonal antibodies and bempedoic acid.
- 2 12 months ending July 2024.
- 3 Data on file. Study NCT05763875. Novartis Pharmaceuticals Corp; 2024.

## Scemblix® (slide 13 references)

- 1 US: June rolling 3-months US IQVIA CML market sizing report (September 2024).
- 2 July-August data; QoQ comparison vs April-May.
- 3 Ex-US (EU4 :IQVIA Oncology Dynamics + JP:MDV + DE: LRx).

## Fabhalta® (slide 14 references)

- 1 Commercial Specialty Pharmacy Data, September 2024.
- 2 Novartis internal data.
- 3 VEEVA claims data, January 2023 - May 2024.
- 4 DE, CN, JP.
- 5 Fabhalta HCP ATUs, September 2024.



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## Fabhalta® (slide 15 references)

- 1 United BioSource LLC. Generally, a urine protein-to-creatinine ratio (UPCR)  $\geq 1.5$  g/g.

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## Iptacopan (slide 16 references)

- 1 ASN 2024 presentation Smith R., et al.
- 2 Primary endpoint. Model estimated geometric mean of ratio to baseline in % change (95% CI) in proteinuria measured via 24-hour UPCR.
- 3 Exploratory endpoint.
4. eGFR slopes per year analyzed using a linear mixed effects model including time (analysis day before or after change point (day 1 of iptacopan treatment) as a continuous covariate, participant-level intercept and slope (time) as random effects. Intercurrent events handled with a treatment policy strategy.

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## Guidance (slide 20 references)

- 1 Constant currencies (cc) and core results are non-IFRS measures. An explanation of non-IFRS measures can be found on page 46 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.
- 2 Timing of Entresto US generic entry is subject to ongoing patent and regulatory litigation.