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Q2 2024 Results

Investor presentation
July 18, 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 XX of the Interim Financial Report.

This communication is neither an offer to purchase nor a solicitation of an offer to sell shares of MorphoSys. The final terms and further provisions regarding the delisting purchase offer are available in the offer document published by Novartis BidCo AG (formerly known as Novartis data42 AG) (the “Bidder”). The offer document has been approved by the BaFin and has been filed with the U.S. Securities and Exchange Commission (the “SEC”). The solicitation and offer to buy shares of MorphoSys is only being made pursuant the offer document. In connection with the Offer, the Bidder and Novartis AG have filed Tender Offer Statement on Schedule TO with the SEC (together with the offer document, an Offer to Purchase including the means to tender and other related documents, the “Offer Documents”), the management board and supervisory board of MorphoSys have issued a joint reasoned statement in accordance with sec. 27 of the German Securities Acquisition and Takeover Act and MorphoSys has filed a Solicitation/Recommendation Statement on Schedule 14D-9 with the SEC (together with the joint reasoned statement, the “Recommendation Statements”). THE MORPHOSYS SHAREHOLDERS AND OTHER INVESTORS ARE URGED TO READ THE OFFER DOCUMENTS AND THE RECOMMENDATION STATEMENTS BECAUSE THEY CONTAIN IMPORTANT INFORMATION WHICH SHOULD BE READ CAREFULLY BEFORE ANY DECISION IS MADE WITH RESPECT TO THE OFFER. The Offer Documents and the Recommendation Statements have been distributed to all stockholders of MorphoSys in accordance with German and U.S. securities laws. The Tender Offer Statement on Schedule TO and the Solicitation/Recommendation Statement on Schedule 14D-9 are available for free at the SEC’s website at www.sec.gov. Additional copies may be obtained for free by contacting the Bidder or MorphoSys. Free copies of these materials and certain other offering documents are available on the Bidder’s website at www.novartis.com/investors/morphosys-acquisition or by contacting the Bidder’s investor relations department at +41 61 324 7944.



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Vas Narasimhan, M.D.
Chief Executive Officer





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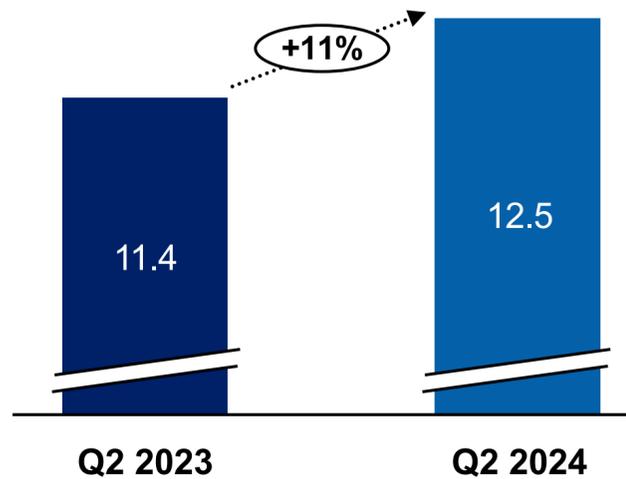
References

Novartis delivered a strong Q2 with double-digit sales growth and core margin expansion

Strong momentum in the business...

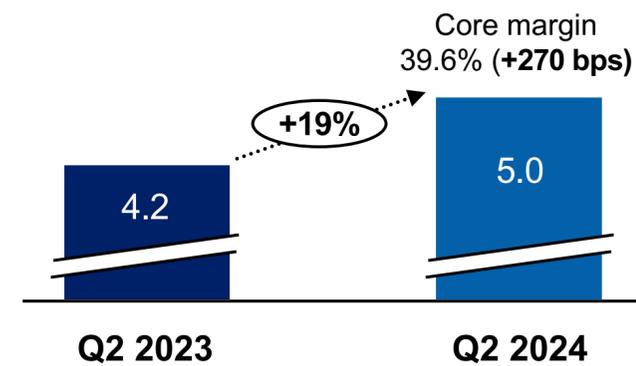
Sales

USD bn, % cc¹



Core¹ operating income

USD bn, % cc¹



... and in the pipeline

Innovation highlights

Fabhalta[®] PNH EU, Japan and China approval

Lutathera[®] pediatric GEP-NET US approval

Scemblix[®] 1L CML FDA submission, BTD

Kisqali[®] NATALEE updated data in eBC

Atrasentan IgAN FDA submission

Renal portfolio data presentations at ERA (Fabhalta[®], atrasentan, zigakibart)

Support upgrade to FY 2024 core operating income guidance and continued confidence in mid-term growth prospects

1. Constant currencies (cc) and core results are non-IFRS measures. An explanation of non-IFRS measures can be found on page 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



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Q2 growth was broad-based, with strong contributions from established growth drivers as well as newer launches

Q2 sales

| | Sales USD million | Growth vs PY USD million | Growth vs PY cc |
|--|----------------------|-----------------------------|--------------------|
| Entresto [®] <small>sacubitril/valsartan</small> | 1,898 | 382 | 28% |
| Kesimpta [®] <small>(ofatumumab) 200mg/100mg</small> | 799 | 310 | 65% |
| Cosentyx [®] <small>(secukinumab)</small> | 1,526 | 254 | 22% |
| KISQALI [®] <small>ribociclib</small> | 717 | 224 | 50% |
| PLUVICTO [®] | 345 | 105 | 44% |
| LEQVIO [®] | 182 | 104 | 134% |
| SCEMBLIX [®] <small>(asciminib) 150mg/100mg</small> | 164 | 58 | 56% |
| Xolair [®] <small>Omalizumab 150mg/300mg/450mg</small> | 427 | 65 | 22% |
| ILARIS [®] <small>(canakinumab) 300mg/150mg</small> | 368 | 52 | 20% |
| zolgensma [®] | 349 | 38 | 14% |
| JAKAVI [®] <small>ruxolitinib</small> | 471 | 36 | 13% |

Strong growth (+37% cc); expected to continue

Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

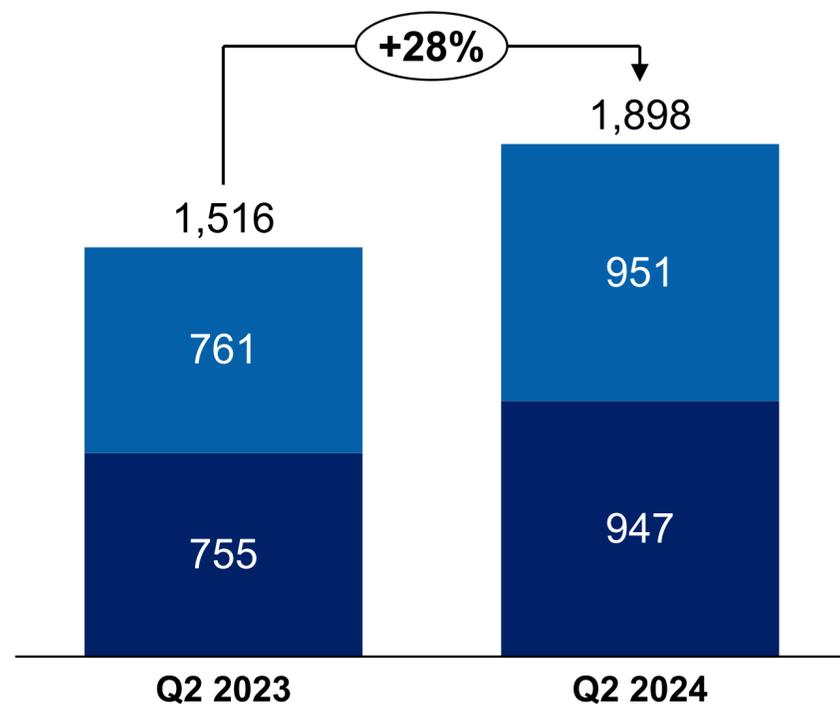
Entresto® delivered +28% growth in Q2, continuing its strong trajectory



Sales evolution

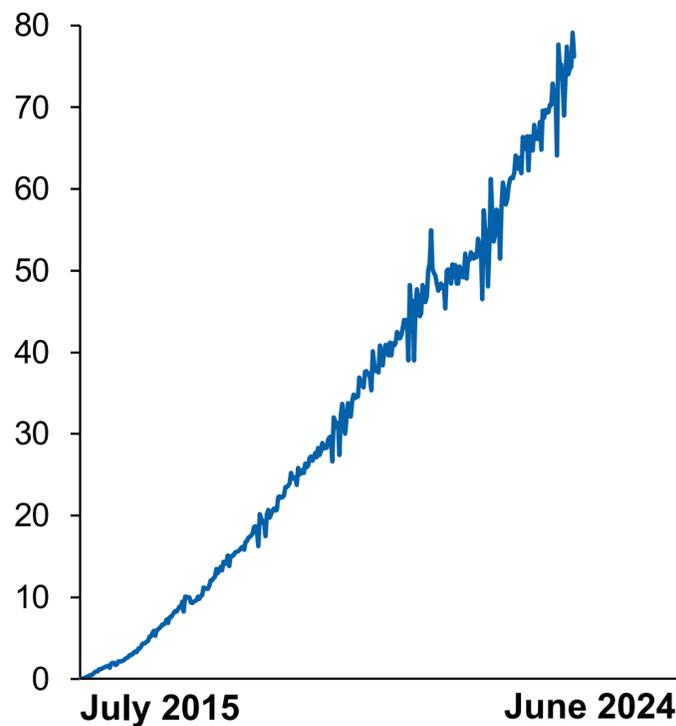
USD m, % cc

■ US ■ Ex-US



US weekly TRx¹

Total prescriptions (000)



Continued strong momentum in Q2

- US: +25%, fueled by consistent demand
- Ex-US: +30% cc, with strong contribution from China and Japan

Confidence in sustained performance

- Strong guideline position² (US/EU)
- Continued expansion of HCP prescriber base and increasing depth in cardiology
- US: For forecasting purposes, we assume Entresto® LoE in mid-2025
- EU: RDP to Nov 2026³

See last page for references (footnotes 1-3). LoE – loss of exclusivity. RDP – Regulatory data protection. Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

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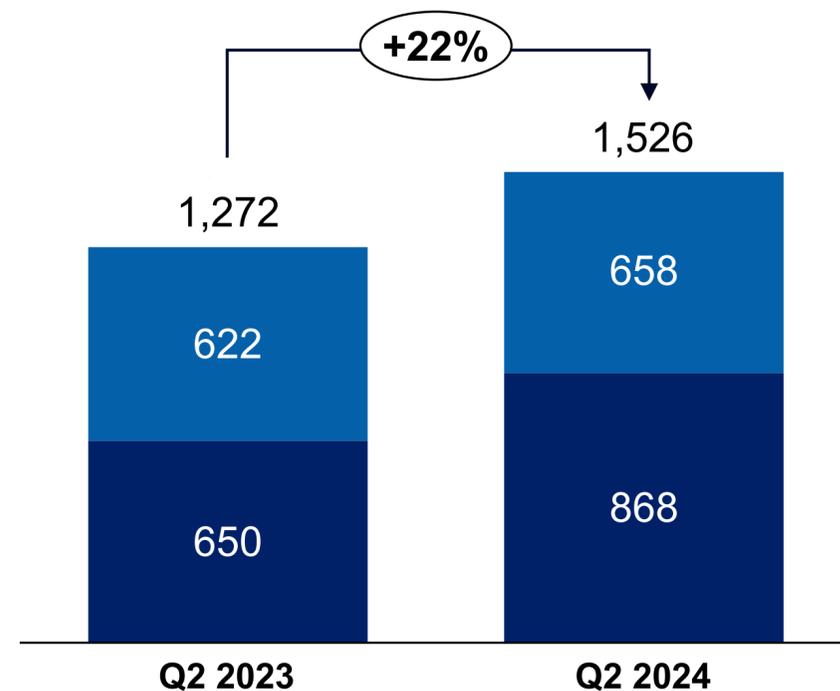
Cosentyx[®] grew +22% fueled by new launches as well as expansion in core indications



Sales evolution

USD m, % cc

■ US ■ Ex-US



Demand-driven growth across geographies

- US: +34%, driven by volume
- Ex-US: +10% cc, with volume partly offset by one-time pricing effects

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

- No.1 IL-17 in US dynamic market¹
- Leading originator biologic in EU² and China³

New launches continue to accelerate growth

- HS: Dynamic market leadership in US (>60%) and DE (>50%) NBRx; reimbursed in key markets⁴
- IV⁵: Solid adoption in US (>700 accounts); further demand increase expected in H2 with permanent J-code (effective July 1)

See last page 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 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

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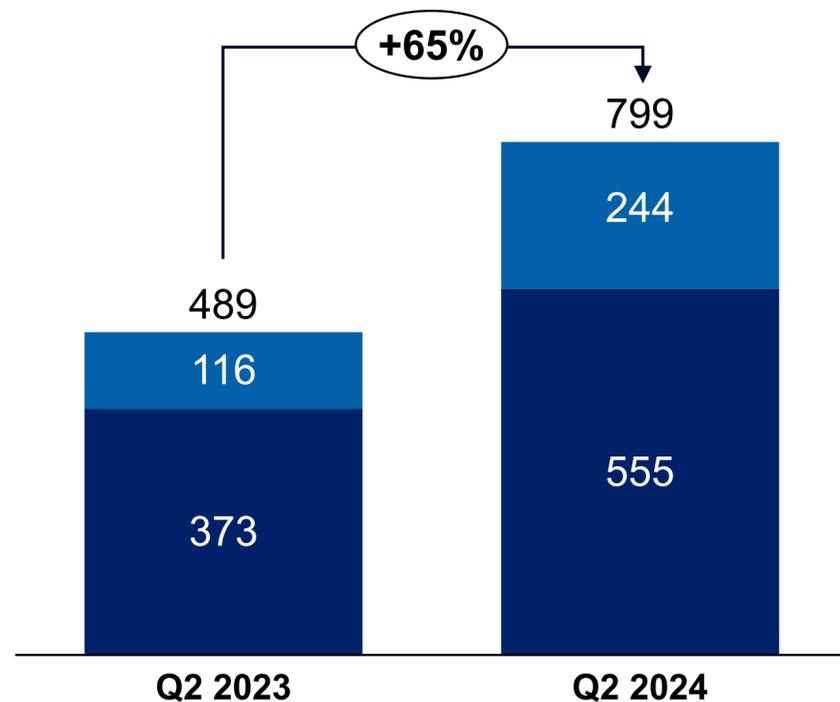
Kesimpta® delivered +65% growth, with strong momentum globally



Sales evolution

USD m, % cc

■ US ■ Ex-US



Strong growth trajectory with increasing contribution ex-US

- >100k patients treated worldwide, majority naïve or first switch¹
- US (+49%): Demand-led growth with TRx volume +43% vs PY, gaining 4%pts share
- Ex-US (+118% cc): NBRx leadership in 7/10 major markets²

Continued confidence in compelling product profile

- Only self-administered B-cell treatment option – 1 minute a month dosing³, no steroid pre-treatment required⁴
- Persistence and adherence in US real-world setting comparable to infused B-cell therapy at 18 and 24 months⁵
- Early and continued ARR reduction in recently diagnosed treatment-naïve patients (post-hoc analysis)⁶

See last page for references (footnotes 1-6). NBRx – new to brand prescription. ARR – annualized relapse rate. Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



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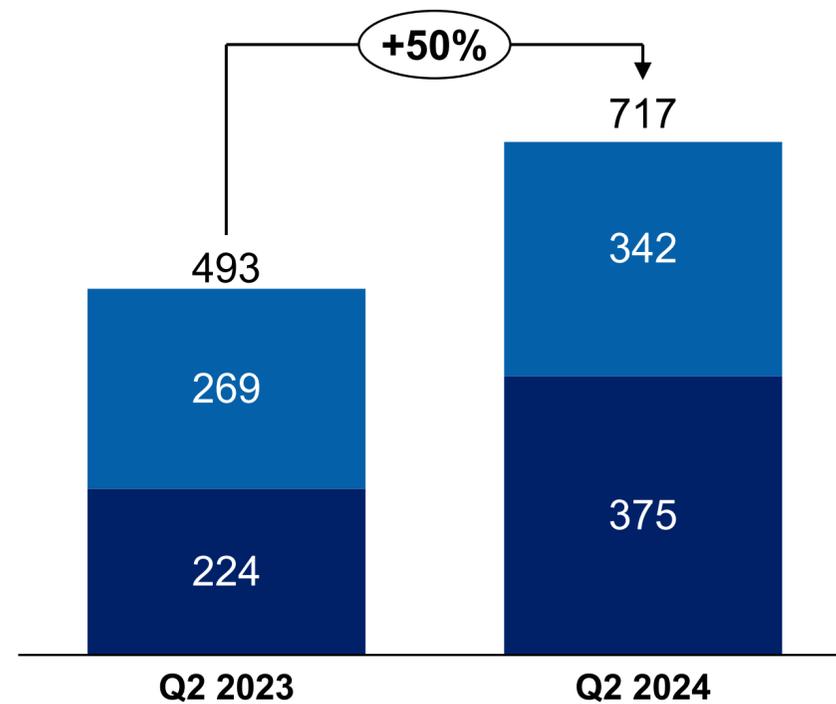
Kisqali[®] grew +50% in mBC with leading NBRx share in US and ex-US



Sales evolution

USD m, % cc

■ US ■ Ex-US



US: +67% growth, gaining widespread adoption

- Leading share in mBC NBRx at 47%¹
- 7k HCPs now prescribing and increasing depth, reflecting strong guideline position

Ex-US: +35% growth, as the preferred CDK4/6i²

- Leading share in mBC NBRx at 38%²
- Fastest-growing CDK4/6i in Europe, recognized with highest ESMO-MCBS score

eBC: On track for launch in H2

- Completed manufacturing adjustments; anticipating US approval by end of Q3
- Confident in broad label based on consistency of results across NATALEE population
- NATALEE update (median follow-up ~4 years): Continued clinically meaningful benefit with consistent safety profile; results to be presented at upcoming medical meeting

See last page 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 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



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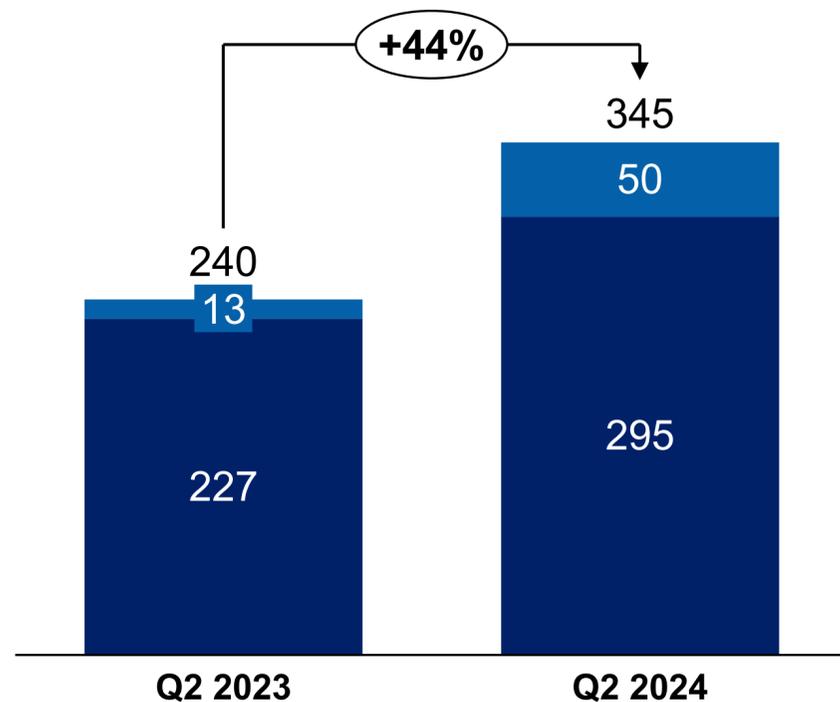
Pluvicto[®] demonstrated continued steady growth of +44% vs PY



Sales evolution

USD m, % cc

■ US ■ Ex-US



Q2 performance driven by new patient starts

- NBRx share in VISION population ~1/3; >50% in established RLT treatment sites
- 475+ treatment sites in the US (~25% growth vs PQ)

Expect continued steady growth in 2024

- Increasing US promotional efforts, including FF expansion in Q2 and DTC in Q3
- Phased launch of patient-ready dose to improve throughput at sites
- Germany pricing approved in Q2

New indications and geographies expected to accelerate growth

- FDA submission for PSMAfore on track for H2 2024
- China submission for VISION indication planned in H2 2024
- PSMAddition in mHSPC and PSMA-DC in oligometastatic disease progressing

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 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

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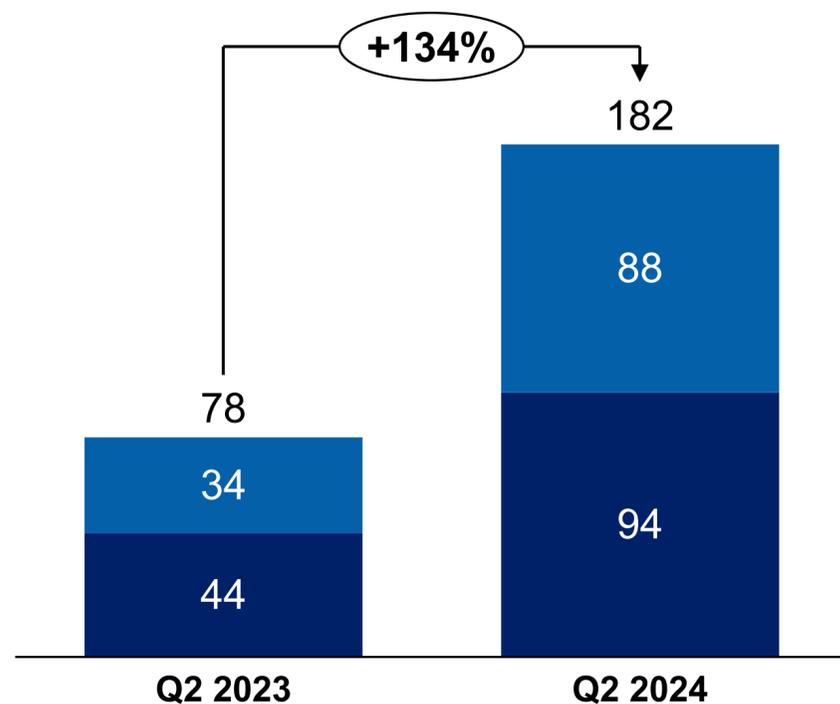
Strong Leqvio[®] growth with increasing global adoption



Sales evolution

USD m, % cc

■ US ■ Ex-US



US: Growth outpacing advanced lipid-lowering market¹

- 4,235 facilities have ordered Leqvio[®] (+8% vs PQ; +48% vs PY)
- Expanding breadth and depth in high-potential HCPs and accounts
- Continuing robust data generation, including Q2 RWE release showing 80% 12-month persistence rate, above comparators²

Ex-US: Rollout continues with >35 countries with reimbursement

- Strong market growth with injectable lipid lowering agents +24% vs PY³
- Leqvio share of business grew +6% vs competition
- Strong adoption in China (OOP) and Japan (reimbursed, >40% market share)

See last page for references (footnotes 1-3). HCP – healthcare professional. RWE – real world evidence. Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY. Novartis obtained global rights to develop, commercialize Leqvio under license/collaboration agreement with Alnylam Pharmaceuticals.

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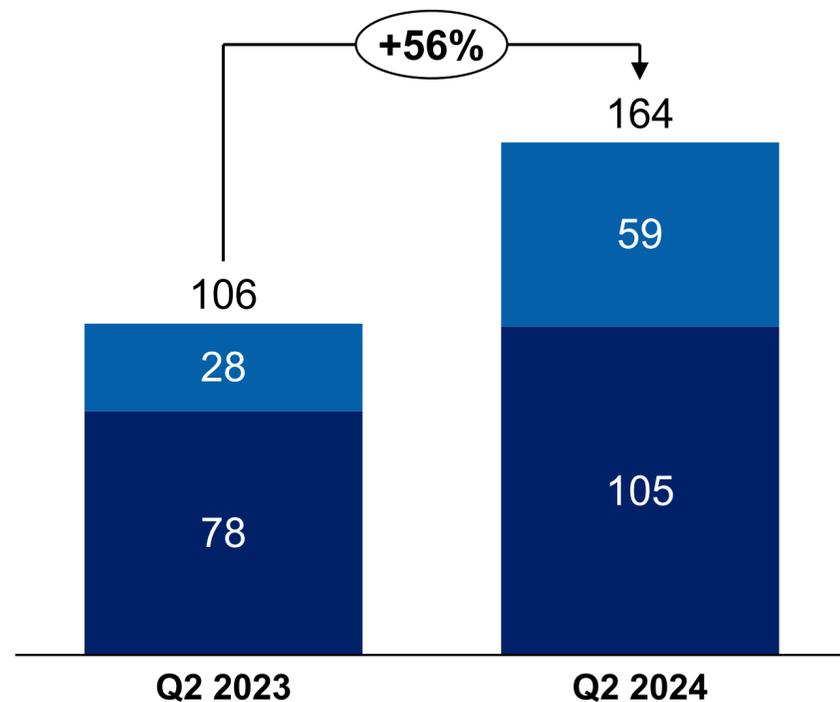
Scemblix® momentum continued in Q2, with US market leadership in 3L+; 1L CML submission under FDA Real-Time Oncology Review (RTOR)



Sales evolution

USD m, % cc

■ US ■ Ex-US



Strong demand in core indication of 3L+ CML

- US: Market leader in both NBRx (44% share) and TRx (26% share)¹
- Ex-US: Performance driven by Japan, Germany and Italy
- TRx and monthly prescribers continue to grow across all geographies
- Launch of 100mg SKU for T315I patients expected to moderate QoQ growth in H2

Confident in 1L opportunity, with FDA submission under RTOR

- Breakthrough Therapy designation received
- Positive feedback from ASCO and EHA; results published in NEJM
- Ex-US submissions starting in 2024 – 2025

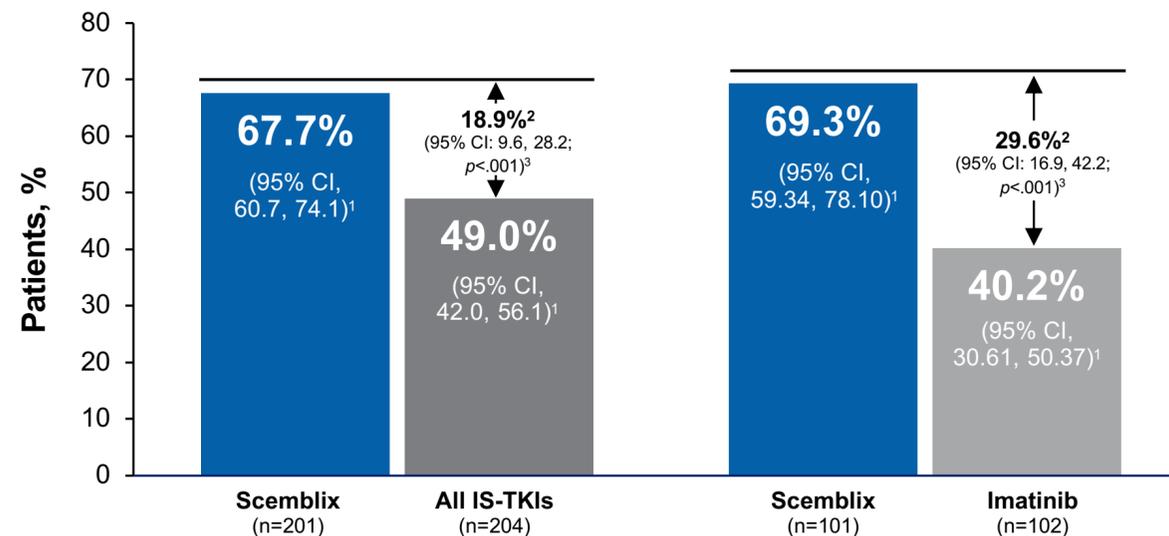
Source: 1. US: January rolling 3-months US IQVIA CML market sizing report (April 2024) - Ex-USA IQVIA Oncology Dynamics, EU5 and JP, MAT December 2023). Constant currencies (cc) is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

Scemblix[®]: Ph3 ASC4FIRST study demonstrated superior efficacy with a favorable safety and tolerability profile vs SoC TKIs in 1L CML

2024 ASCO[®]
ANNUAL MEETING

Efficacy

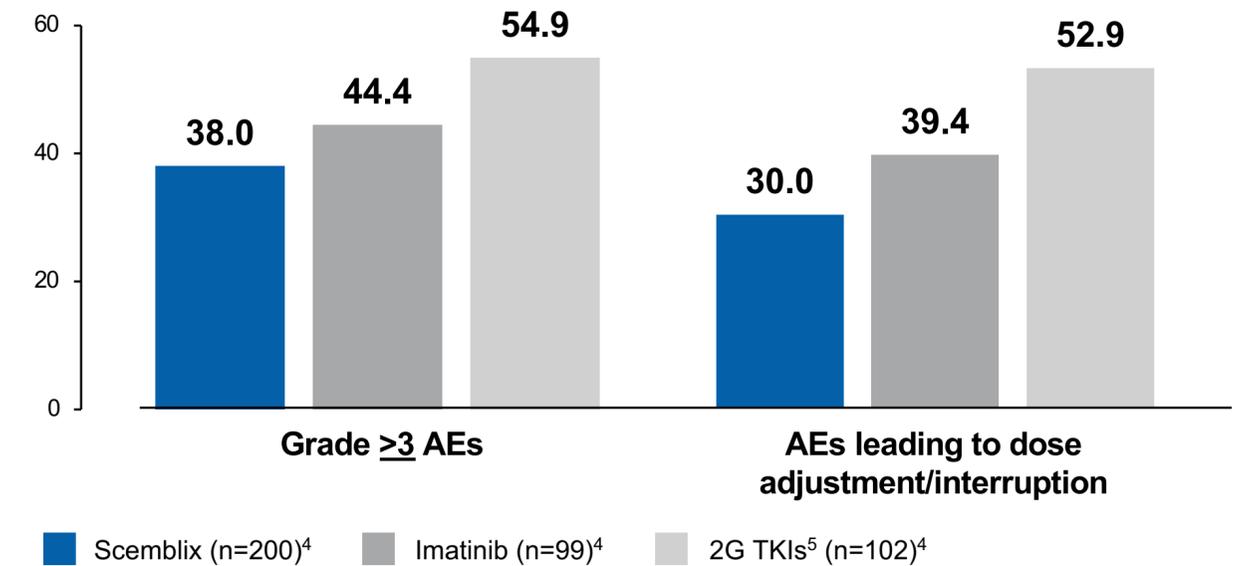
- Superior MMR rates vs IS-TKIs and vs imatinib alone



- Earlier achievement of MMR and greater depth of responses
- Improvement vs 2G TKI in MMR rate, speed and depth of responses

Safety and tolerability

- Fewer grade ≥3 AEs
- Fewer dose adjustments/interruptions needed to manage AEs



- Half the rate of all-grade AEs leading to discontinuation

See last page for references (footnotes 1-5). CI, confidence interval; CMH, Cochran-Mantel-Haenszel. NA, not applicable.



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Fabhalta^{®1} US PNH launch off to an encouraging start; ex-US approvals received in EU, China and Japan



Increasing intent to prescribe, reflecting compelling product profile



US launch update

Only oral monotherapy approved by FDA providing comprehensive hemolysis control (IVH and EVH)



REMS certified HCPs ahead of competitive benchmarks



Continued uptake across naive and switch patients (from both C5i and C3i)



Patients treated across all hemoglobin levels, including Hb 10-12 g/dL



Increasing commercial coverage and conversion of patients from bridge program to paid

Ex-US update: Q2 approvals received in Europe, China and Japan

1. Iptacopan is the generic name (international non-proprietary name) of Fabhalta[®] for unapproved indications. HCP – healthcare professional. IVH – intravascular hemolysis. EVH – extravascular hemolysis. PNH – paroxysmal nocturnal hemoglobinuria. REMS – risk evaluation and mitigation strategies. Hb – Hemoglobin. US FDA approval received 12/05/2023. C5i – eculizumab and ravulizumab.



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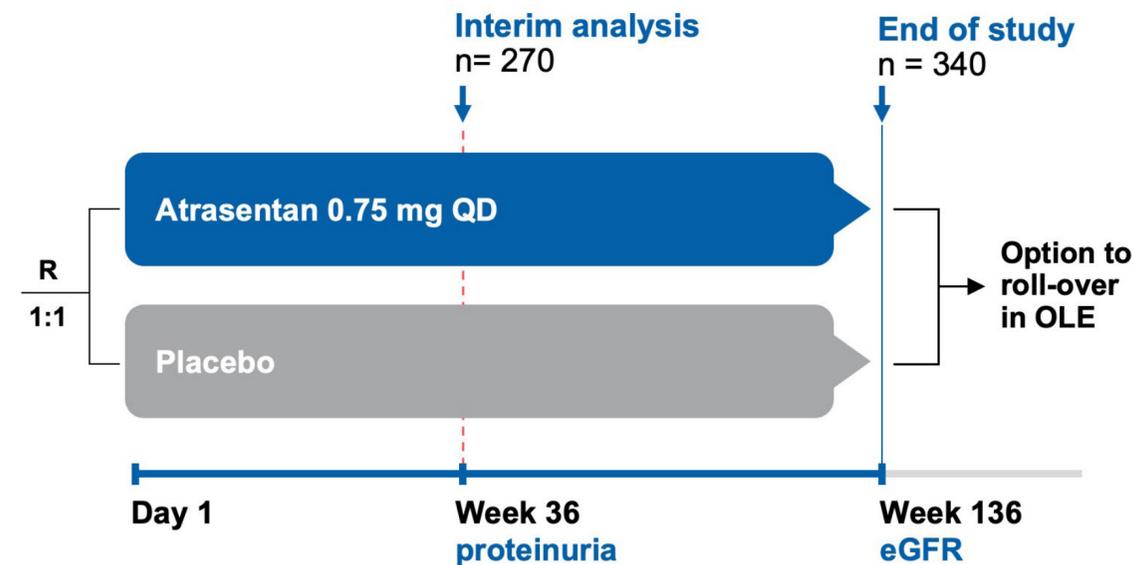
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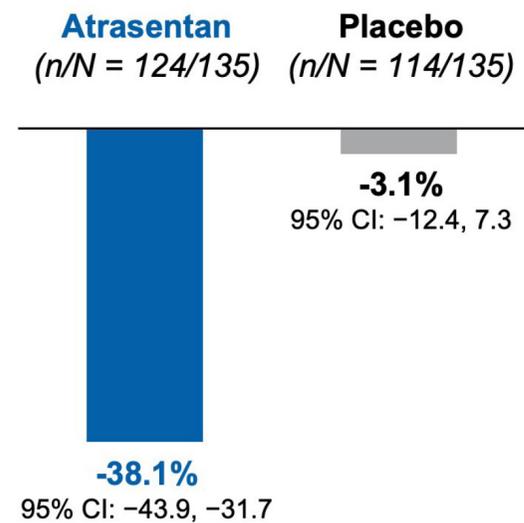
References

Atrasentan: Ph3 ALIGN-IgAN study demonstrated 36%¹ proteinuria reduction relative to placebo

Study design



Proteinuria reduction in IgAN patients at week 36



- Clinically meaningful and statistically significant proteinuria reduction
- Favorable safety profile consistent with previously reported data
- Potential foundational therapy, seamlessly added to supportive care
- Up to 50% of patients with persistent proteinuria progress to kidney failure within 10-20 years of diagnosis²⁻⁷

Next steps

Submitted to FDA, study continues in blinded fashion to final analysis in 2026

See last page for references (footnotes 1-7). QD – once daily. eGFR – estimated glomerular filtration rate. IgAN – IgA nephropathy. OLE – open label extension.



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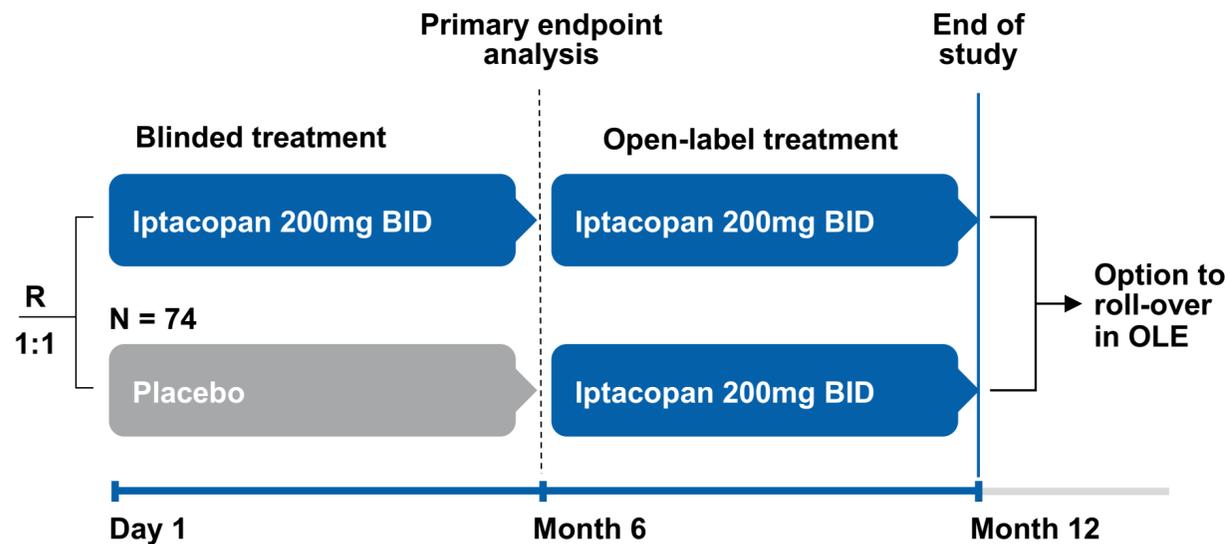
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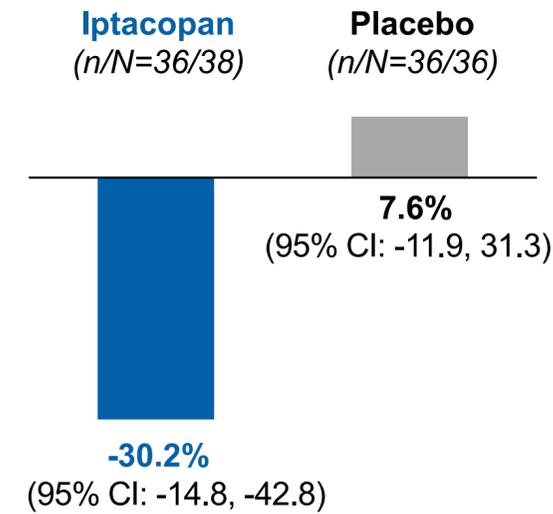
Iptacopan: Ph3 APPEAR-C3G study demonstrated 35%¹ proteinuria reduction relative to placebo



Study design



Proteinuria reduction in C3G patients at month 6



- Clinically meaningful and statistically significant proteinuria reduction
- Numerical improvement in eGFR
- Favorable safety profile consistent with previously reported data
- First potential treatment targeting the alternative complement pathway in C3G
- ~50% of patients develop kidney failure requiring dialysis or transplant within 10 years of diagnosis^{2,3}

Next steps > End-of-study results consistent with 6-month data; results to be presented at upcoming medical meeting
 HA submissions planned for H2 2024

BID – twice daily. C3G – Complement 3 glomerulopathy. OLE – open label extension. HA – health authorities. 1. Kavanagh D, et al. Efficacy & Safety of iptacopan in patients with C3G: results from the Phase 3 APPEAR-C3G trial. ERA May 25, 2024. 2. Smith RJH, et al. Nat Rev Nephrol 2019;15:129-143. 3. Martin B, Smith RJH. In: Adam MP, Ardinger HH, Pagon RA, et al. GeneReviews® [Internet]. Updated 2018. University of Washington, Seattle; 1993-2022.



Expect to continue our innovation momentum in H2

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2024 selected key events (expected)

| | | H1 2024 | H2 2024 | Q2 status update |
|-----------------------------|---|-----------------|-------------|--|
| Regulatory decisions | Fabhalta® PNH | | EU, JP | EU, JP and China approval in Q2 |
| | Kisqali® HR+/HER2- adj. BC | | US, EU | |
| Submissions | Atrasentan IgAN | US | | US submission in Q2 |
| | Fabhalta® (iptacopan) C3G | | US, EU | |
| | Fabhalta® (iptacopan) IgAN | US | | US submission in Q1, received priority review |
| | Pluvicto® mCRPC, pre-taxane | | US | Submission-enabling OS readout in April |
| | Remibrutinib CSU | | | Submissions shifting to 2025 |
| | Scemblix® CML 1L | US | JP | US submission in Q2, granted Breakthrough Therapy Designation |
| | Lutathera® GEP-NET 1L G2/G3 | EU | | EU submission in Q2 |
| Readouts | Scemblix® CML 1L | Ph3 (ASC4FIRST) | | Ph3 ASC4FIRST readout in Q1 |
| | Zolgensma® SMA IT | | Ph3 (STEER) | |
| | XXB750 hypertension | | Ph2 | |
| Ph3 starts | Pluvicto® oligometastatic PC | Ph3 | | Ph3 PSMA-DC started in Q1 |
| | Opnurasib 1L NSCLC (combo) ¹ | 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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Financial review and 2024 guidance

Harry Kirsch

Chief Financial Officer





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Q2 net sales grew +11% cc with core operating income up +19% cc¹

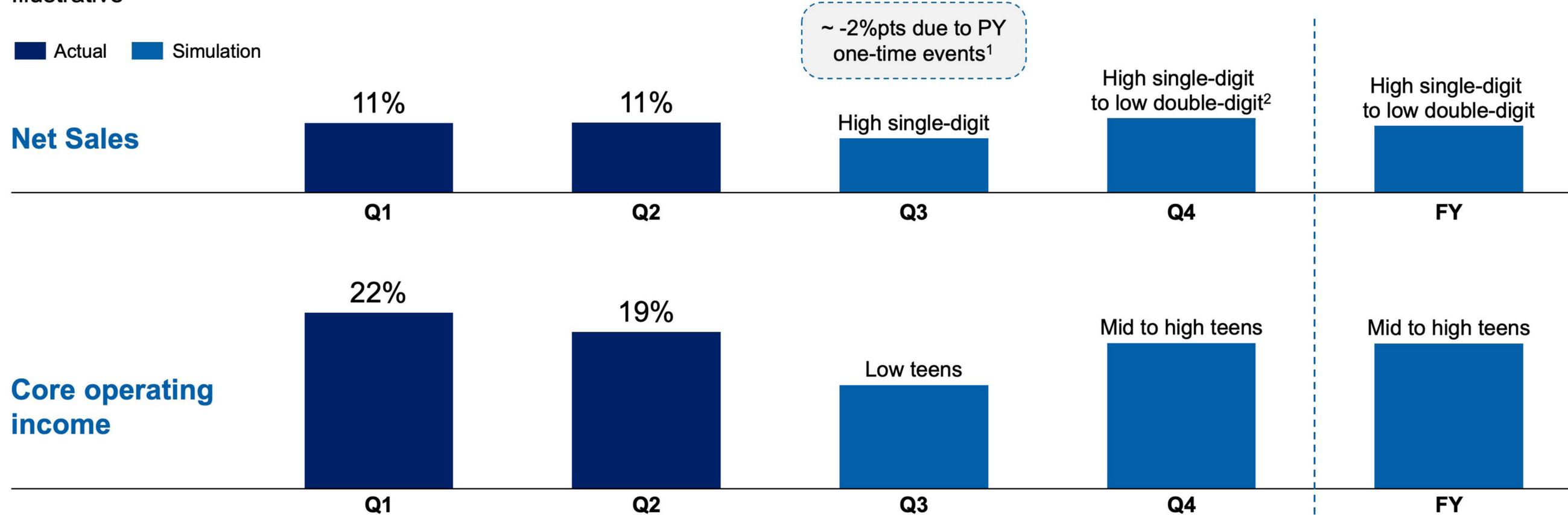
| Continuing Operations ^{1,2} USD million | Q2 | Q2 | Change vs PY | | H1 | H1 | Change vs PY | |
|---|--------|--------|--------------|----------|--------|--------|--------------|----------|
| | 2023 | 2024 | % USD | % cc | 2023 | 2024 | % USD | % cc |
| Total Net Sales | 11,437 | 12,512 | 9 | 11 | 22,235 | 24,341 | 9 | 11 |
| Core Operating income | 4,240 | 4,953 | 17 | 19 | 8,146 | 9,490 | 16 | 21 |
| <i>as % of Net sales</i> | 37.1% | 39.6% | +2.5%pts | +2.7%pts | 36.6% | 39.0% | +2.4%pts | +3.1%pts |
| Operating income | 2,807 | 4,014 | 43 | 47 | 5,425 | 7,387 | 36 | 43 |
| Net Income | 2,271 | 3,246 | 43 | 49 | 4,421 | 5,934 | 34 | 43 |
| Core EPS | 1.69 | 1.97 | 17 | 21 | 3.23 | 3.77 | 17 | 22 |
| EPS | 1.09 | 1.60 | 47 | 52 | 2.12 | 2.91 | 37 | 47 |
| Free cash flow | 3,292 | 4,615 | 40 | | 5,976 | 6,653 | 11 | |

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 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY. 2. As defined on page 33 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.

2024 with strong underlying growth dynamics in all quarters; Q3 growth lower due to PY one-timers

2024 growth vs. PY (cc)

Illustrative



1. PY Kesimpta revenue deduction adjustment in Europe and Sandoz inventory buildup sales. 2. Subject to US Gx. entry assumptions.



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Raising 2024 core operating income guidance¹

Expected, barring unforeseen events; growth vs PY in cc¹

Net sales

expected to grow

high single to low double-digit

Core operating income

expected to grow

mid to high teens

(from low double-digit to mid-teens)

Key assumptions

- No US Entresto[®] Gx launch in 2024
- No US Promacta[®] Gx launch in 2024

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%

1. Constant currencies (cc) and core results are non-IFRS measures. An explanation of non-IFRS measures can be found on page 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



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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

MorphoSys acquisition; multiple early-stage deals to strengthen RLT platform in H1

Substantial cash generation

Consistently growing annual dividend¹

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 10.1bn still to be executed

1. In CHF.



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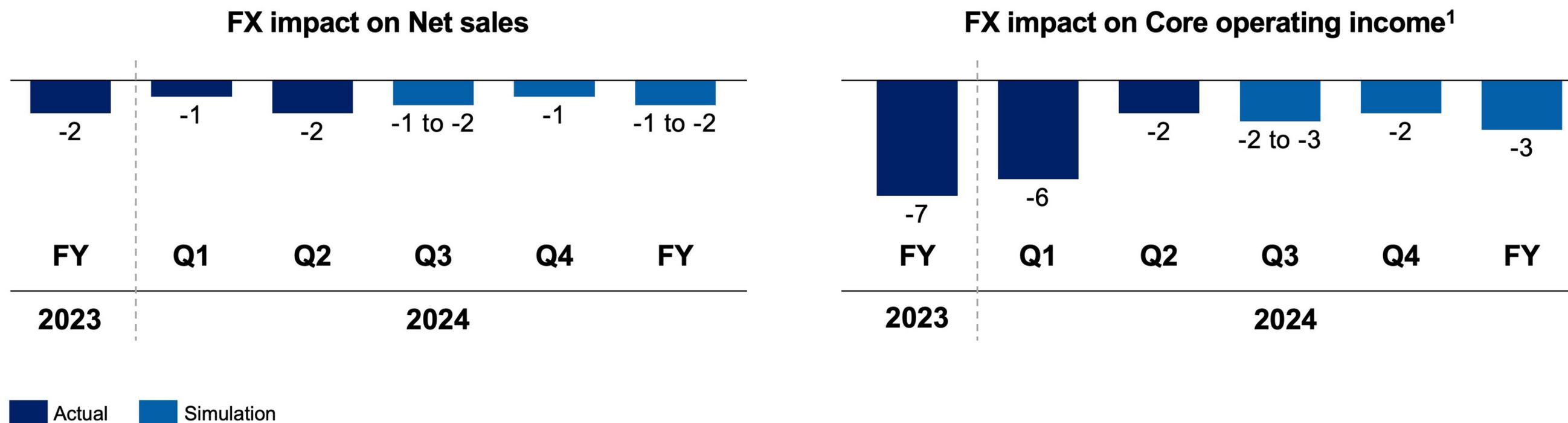
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Expected currency impact for full year 2024

Currency impact vs PY

%pts, assuming mid-July exchange rates prevail in 2024



1. Core operating income is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



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Vas Narasimhan, M.D.
Chief Executive Officer





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Continued momentum in Q2, with net sales up +11% and core operating income margin approaching 40%

Strong commercial execution across geographies and growth brands, supporting bottom-line guidance raise for FY2024

Pipeline continues to advance, with FDA submissions for Scemblix 1L and atrasentan IgAN, and updated data for Kisqali in eBC

On track to achieve our mid-term guidance of +5% cc sales CAGR 2023-2028 and 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 43 of the Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.



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Our pipeline projects at a glance

| | Phase 1/2 | Phase 3 | Registration | Total |
|--|-----------|-----------|--------------|------------|
| Oncology | 25 | 9 | 5 | 39 |
| Solid tumors | 18 | 4 | 4 | 26 |
| Hematology | 7 | 5 | 1 | 13 |
| Immunology | 17 | 9 | 0 | 26 |
| Neuroscience | 4 | 5 | 0 | 9 |
| Cardiovascular, Renal and Metabolic | 5 | 8 | 2 | 15 |
| Others (thereof IB&GH) | 11 (7) | 4 (3) | 1 | 16 |
| | 62 | 35 | 8 | 105 |

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



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Novartis pipeline in Phase 1

17 lead indications

Lead indication



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Oncology

| Code | Name | Mechanism | Indication(s) |
|---------------------|----------------------------|--|---|
| Solid tumors | | | |
| AAA603 | ¹⁷⁷ Lu-NeoB | Radioligand therapy target GRPR | Multiple solid tumors Breast cancer Glioblastoma multiforme |
| AAA604 | AAA604 | Radioligand therapy target integrin alpha-v, beta-3/beta-5 | Solid tumors |
| AAA614 | AAA614 | Radioligand therapy target FAP | Solid tumors |
| AAA617 | Pluvicto® | Radioligand therapy target PSMA | Metastatic neuroendocrine prostate cancer |
| AAA802 | ²²⁵ Ac-PSMA-R2 | Radioligand therapy target PSMA | Prostate cancer |
| AAA817 | ²²⁵ Ac-PSMA-617 | Radioligand therapy target PSMA | Metastatic castration-resistant prostate cancer |
| HRO761 | HRO761 | Werner inhibitor | Solid tumors |
| IAG933 | IAG933 | - | Mesothelioma |
| 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 |

Immunology

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

Others

| Code | Name | Mechanism | Indication(s) |
|------------------|--------|--------------------|-------------------|
| IB&GH | | | |
| EDI048 | EDI048 | CpPI(4)K inhibitor | Cryptosporidiosis |

Novartis pipeline in Phase 2

21 lead indications

 Lead indication



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Oncology

| Code | Name | Mechanism | Indication(s) |
|---------------------|------------------------|---------------------------------|--|
| Solid tumors | | | |
| AAA601 | Lutathera® | Radioligand therapy target SSTR | GEPNET, pediatrics 1L ES-SCLC Glioblastoma |
| DZR123 | tulmimetostat | EZH1, EZH2 inhibitor | Solid tumors & lymphomas |
| Hematology | | | |
| ABL001 | Scemblix® | BCR-ABL inhibitor | Chronic myeloid leukemia, 2L, pediatrics |
| PHE885 | durcabtagene autoleucl | BCMA cell therapy | 4L multiple myeloma |
| PKC412 | Rydapt® | Multi-targeted kinase inhibitor | Acute myeloid leukemia, pediatrics |
| YTB323 | rapcabtagene autoleucl | CD19 CAR-T | 1L high-risk large B-cell lymphoma |

Neuroscience

| Code | Name | Mechanism | Indication(s) |
|---------------------|-------------|--------------------------------------|---------------------|
| DLX313 ¹ | minzasolmin | Alpha-synuclein misfolding inhibitor | Parkinson's disease |

Cardiovascular, Renal and Metabolic

| Code | Name | Mechanism | Indication(s) |
|--------|-----------|---------------|-------------------------------|
| LNP023 | Fabhalta® | CFB inhibitor | Lupus nephritis |
| TIN816 | TIN816 | ATP modulator | Acute kidney injury |
| XXB750 | XXB750 | NPR1 agonist | Hypertension Heart failure |

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 | Autoimmune hepatitis Hidradenitis suppurativa |
| YTB323 | rapcabtagene autoleucl | CD19 CAR-T | srSLE/LN |

Others

| Code | Name | Mechanism | Indication(s) |
|------------------|------------|----------------------------------|--|
| IB&GH | | | |
| EYU688 | EYU688 | NS4B inhibitor | Dengue |
| 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 |
| Others | | | |
| CMK389 | CMK389 | IL-18 inhibitor | Pulmonary sarcoidosis |
| 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.



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Novartis pipeline in Phase 3

7 lead indications

 Lead indication

Oncology

| Code | Name | Mechanism | Indication(s) |
|---------------------|------------|---|--|
| Solid tumors | | | |
| AAA617 | Pluvicto® | Radioligand therapy target PSMA | Metastatic castration-resistant prostate cancer (mCRPC), pre-taxane Metastatic hormone sensitive prostate cancer (mHSPC) Oligometastatic prostate cancer |
| BYL719 | Vijoice® | PI3K-alpha inhibitor | Lymphatic malformations |
| Hematology | | | |
| 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 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 CINDU |
| QGE031 | ligelizumab | IgE inhibitor | Food allergy |
| VAY736 | ianalumab | BAFF-R inhibitor, ADCC-mediated B-cell depletor | Sjögren's Lupus Nephritis Systemic lupus erythematosus |

Others

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

1 lead indication

Novartis pipeline in registration

| Oncology | | | |
|---------------------|------------|---------------------------------|---|
| Code | Name | Mechanism | Indication(s) |
| Solid tumors | | | |
| LEE011 | Kisqali® | CDK4/6 Inhibitor | HR+/HER2- BC (adj) |
| INC424 | Jakavi® | JAK1/2 inhibitor | Acute GVHD, pediatrics Chronic GVHD, pediatrics |
| AAA601 ¹ | Lutathera® | Radioligand therapy target SSTR | Gastroenteropancreatic neuroendocrine tumors (GEP-NET), 1st line in G2/3 tumors |
| Hematology | | | |
| ABL001 | Scemblix® | BCR-ABL inhibitor | Chronic myeloid leukemia, 1st line |

| Cardiovascular, Renal and Metabolic | | | |
|-------------------------------------|------------|-------------------------------------|-----------------|
| Code | Name | Mechanism | Indication(s) |
| EXV811 | atrasentan | ET _A receptor antagonist | IgA nephropathy |
| LNP023 | Fabhalta® | CFB inhibitor | IgA nephropathy |

| Others | | | |
|------------------|----------|---------------------------------|--|
| Code | Name | Mechanism | Indication(s) |
| IB&GH | | | |
| COA566 | Coartem® | Artemisinin combination therapy | Malaria, uncomplicated (<5kg patients) |

1. ¹⁷⁷Lu-dotatate in US.



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Novartis submission schedule

New Molecular Entities: Lead and supplementary indications



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- Non-core TA project

| | 2024 | 2025 | 2026 | ≥2027 | | | |
|---------------|-------------------------------------|--|--|--|--|--|---|
| Lead | atrasentan EXV811 IgAN | pelacarsen TQJ230 CVRRLp(a) | ianalumab VAY736 Sjögren's syndrome | 177Lu-NeoB AAA603 Multiple Solid Tumors | ligelizumab QGE031 Food allergy | rapcabtagene autoleucl YTB323 High-risk large B-cell lymphoma | XXB750 Hypertension |
| | | remibrutinib LOU064 CSU | | iscalimab CFZ533 Sjögren's syndrome | LNA043 Knee osteoarthritis | | zigakibart FUB523 IgAN |
| | | | ganaplacide/lumefantrine KLU156 Malaria uncomplicated | cipargamin KAE609 Malaria severe | LXE408 Visceral leishmaniasis | | |
| Supplementary | Fabhalta® LNP023 C3G | | | ianalumab VAY736 AIH | ianalumab VAY736 1L Immune Thrombocytopenia | Fabhalta® LNP023 aHUS | rapcabtagene autoleucl YTB323 srSLE/LN |
| | Fabhalta® LNP023 IgAN | | | ianalumab VAY736 Lupus Nephritis | ianalumab VAY736 wAIHA | Fabhalta® LNP023 gMG | remibrutinib LOU064 CINDU |
| | | | | ianalumab VAY736 SLE | ianalumab VAY736 2L Immune Thrombocytopenia | Fabhalta® LNP023 IC-MPGN | remibrutinib LOU064 Multiple sclerosis |
| | | | | cipargamin¹ KAE609 Malaria uncomplicated | | | XXB750 Heart failure |

1. Part of triple combination therapy.

Novartis submission schedule

Supplementary indications for existing brands



1. ¹⁷⁷Lu-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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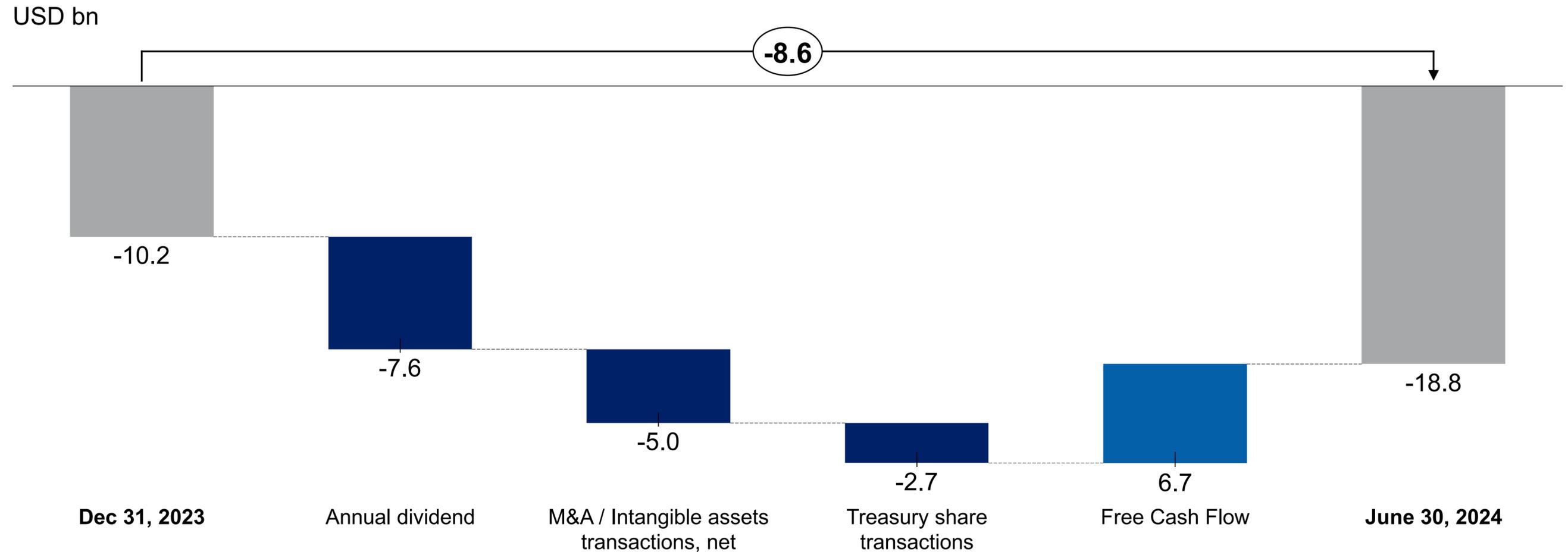
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Net debt increased by USD 8.6bn mainly due to the annual dividend and M&A, partially offset by FCF



Free cash flow is a non-IFRS measure. An explanation of non-IFRS measures can be found on page 43 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



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Cardiovascular, Renal and Metabolic



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atrasentan - ETA receptor antagonist

NCT04573478 ALIGN (CHK01-01)

| | |
|---------------------------------|---|
| Indication | IgA nephropathy |
| Phase | Phase 3 |
| Patients | 380 |
| Primary Outcome Measures | 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 |
| Arms Intervention | 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 |
| Target Patients | Patients with IgA nephropathy (IgAN) at risk of progressive loss of renal function |
| Readout Milestone(s) | 2023 (primary endpoint for US initial submission) 2026 (24 months) |
| Publication | TBD |



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Fabhalta[®] - CFB inhibitor

NCT04578834 APPLAUSE-IgAN (CLNP023A2301)

| | |
|---------------------------------|---|
| Indication | IgA nephropathy |
| Phase | Phase 3 |
| Patients | 450 |
| Primary Outcome Measures | 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 |
| Arms Intervention | Arm 1 - LNP023 200mg BID Arm 2 - Placebo BID |
| Target Patients | Primary IgA Nephropathy patients |
| Readout Milestone(s) | 2023 (primary endpoint for US initial submission, 9 months UPCR) 2025 (24 months) |
| Publication | TBD |

Fabhalta[®] - CFB inhibitor

NCT05755386 APPARENT (CLNP023B12302)

| | |
|---------------------------------|--|
| Indication | Immune complex-mediated membranoproliferative glomerulonephritis |
| Phase | Phase 3 |
| Patients | 68 |
| Primary Outcome Measures | 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> |
| Arms Intervention | 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) |
| Target Patients | Patients (adults and adolescents aged 12-17 years) with idiopathic IC-MPGN |
| Readout Milestone(s) | 2026 |
| Publication | 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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Fabhalta[®] - CFB inhibitor

NCT03955445 (CLNP023B12001B)

| | |
|---------------------------------|---|
| Indication | C3 glomerulopathy (C3G) |
| Phase | Phase 2 |
| Patients | 27 patients from ongoing Ph2 (sample size from Ph3 pending HA discussions Q1 2021), total patients for this study will increase |
| Primary Outcome Measures | Characterize the effect of LNP023 treatment on a composite renal response endpoint at 9 months (1. a stable or improved eGFR and, 2. a reduction in proteinuria and 3. an increase in C3 compared to the CLNP023X2202 baseline visit) |
| Arms Intervention | Open-label LNP023 200mg bid |
| Target Patients | Patients with C3 glomerulopathy |
| Readout Milestone(s) | 2025 |
| Publication | TBD |

Fabhalta[®] - CFB inhibitor

NCT04817618 APPEAR-C3G (CLNP023B12301)

| | |
|---------------------------------|---|
| Indication | C3 glomerulopathy |
| Phase | Phase 3 |
| Patients | 83 |
| Primary Outcome Measures | Log-transformed ratio to baseline in UPCR (sampled from a 24 hour urine collection) |
| Arms Intervention | Experimental: iptacopan 200mg b.i.d. Placebo Comparator: Placebo to iptacopan 200mg b.i.d. |
| Target Patients | Patients with native C3G |
| Readout Milestone(s) | 2023 |
| Publication | TBD |



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Leqvio® - siRNA (regulation of LDL-C)

NCT03705234 ORION-4 (CKJX839B12301)

| | |
|---------------------------------|---|
| Indication | Hypercholesterolemia inc. Heterozygous Familial Hypercholesterolaemia (HeFH) |
| Phase | Phase 3 |
| Patients | 16124 |
| Primary Outcome Measures | 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 |
| Arms Intervention | 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. |
| Target Patients | Patient population with mean baseline LDL-C \geq 100mg/dL |
| Readout Milestone(s) | 2026 |
| Publication | TBD |

Leqvio® - siRNA (regulation of LDL-C)

NCT05030428 VICTORION-2P (CKJX839B12302)

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



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Leqvio® - siRNA (regulation of LDL-C)

NCT04652726 ORION-16 (CKJX839C12301)

| | |
|---------------------------------|--|
| Indication | Hyperlipidemia, pediatrics |
| Phase | Phase 3 |
| Patients | 141 |
| Primary Outcome Measures | Percentage (%) change in low-density lipoprotein cholesterol (LDL-C) from baseline to Day 330 |
| Arms Intervention | 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. |
| Target Patients | Adolescents (12 to less than 18 years) with heterozygous familial hypercholesterolemia (HeFH) and elevated low density lipoprotein cholesterol (LDL-C) |
| Readout Milestone(s) | 2025 |
| Publication | 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)

| | |
|---------------------------------|---|
| Indication | Hyperlipidemia, pediatrics |
| Phase | Phase 3 |
| Patients | 13 |
| Primary Outcome Measures | Percentage (%) change in low-density lipoprotein cholesterol (LDL-C) from baseline to day 330 |
| Arms Intervention | 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. |
| Target Patients | Adolescents (12 to less than 18 years) with homozygous familial hypercholesterolemia (HoFH) and elevated low density lipoprotein cholesterol (LDL-C) |
| Readout Milestone(s) | 2025 |
| Publication | 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)

| | |
|---------------------------------|--|
| Indication | CVRR (Primary prevention) |
| Phase | Phase 3 |
| Patients | 14000 |
| Primary Outcome Measures | 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 |
| Arms Intervention | Arm 1 Experimental: Inclisiran Sodium 300mg, subcutaneous injection in pre-filled syringe Arm 2 Placebo |
| Target Patients | High-risk primary prevention patients |
| Readout Milestone(s) | 2029 |
| Publication | TBD |

Leqvio® - siRNA (regulation of LDL-C)

NCT05763875 V-Mono (CKJX839D12304)

| | |
|---------------------------------|--|
| Indication | CVRR (Primary prevention) |
| Phase | Phase 3 |
| Patients | 350 |
| Primary Outcome Measures | 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] |
| Arms Intervention | 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. |
| Target Patients | 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. |
| Readout Milestone(s) | 2024 |
| Publication | TBD |



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

NCT04023552 Lp(a)HORIZON (CTQJ230A12301)

| | |
|---------------------------------|---|
| Indication | Secondary prevention of cardiovascular events in patients with elevated levels of lipoprotein(a) |
| Phase | Phase 3 |
| Patients | 8323 |
| Primary Outcome Measures | Time to the first occurrence of MACE (cardiovascular death, non-fatal MI, non-fatal stroke and urgent coronary re-vascularization) |
| Arms Intervention | TQJ230 80 mg injected monthly subcutaneously or matched placebo |
| Target Patients | 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 |
| Readout Milestone(s) | 2025 (Event driven) |
| Publication | TBD |



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XXB750 - NPR1 agonist

NCT05562934 (CXXB750B12201)

| | |
|---------------------------------|--|
| Indication | Hypertension |
| Phase | Phase 2b |
| Patients | 170 |
| Primary Outcome Measures | Change from baseline in mean 24hr ambulatory systolic blood pressure at week 12 |
| Arms Intervention | Arm 1 experimental: Dose 1 Arm 2 experimental: Dose 2 Arm 3 experimental: Dose 3 Arm 4 experimental: Dose 4 Arm 5 placebo comparator |
| Target Patients | Resistant Hypertension Patients |
| Readout Milestone(s) | 2024 |
| Publication | TBD |

XXB750 - NPR1 agonist

NCT06142383 (CXXB750A12201)

| | |
|---------------------------------|---|
| Indication | Heart failure |
| Phase | Phase 2 |
| Patients | 720 |
| Primary Outcome Measures | Change in log NT-proBNP from baseline to Week 16 [Time Frame: Baseline to Week 16] |
| Arms Intervention | Arm 1 Placebo Comparator Arm 2 Experimental: XXB750 Low Dose Arm 3 Experimental: XXB750 Medium Dose Arm 4 Experimental: XXB750 High Dose Arm 5 Active Comparator: Sacubitril/valsartan, open label tablet |
| Target Patients | Patients with heart failure |
| Readout Milestone(s) | 2026 |
| Publication | TBD |



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zigakibart - Anti-APRIL

NCT05852938 BEYOND (CFUB523A12301)

| | |
|---------------------------------|---|
| Indication | IgA nephropathy |
| Phase | Phase 3 |
| Patients | 292 |
| Primary Outcome Measures | Change in proteinuria [Time Frame: 40 weeks or approximately 9 months] |
| Arms Intervention | 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 |
| Target Patients | Adults with IgA Nephropathy |
| Readout Milestone(s) | 2026 |
| Publication | 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[®] - IL-17A inhibitor

NCT05767034 REPLENISH (CAIN457C22301)

| | |
|---------------------------------|---|
| Indication | Polymyalgia rheumatica |
| Phase | Phase 3 |
| Patients | 360 |
| Primary Outcome Measures | Proportion of participants achieving sustained remission |
| Arms Intervention | 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 |
| Target Patients | Adult patients with PMR who have recently relapsed |
| Readout Milestone(s) | 2025 |
| Publication | TBD |

Cosentyx[®] - IL-17A inhibitor

NCT04930094 GCAPTAIN (CAIN457R12301)

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



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

NCT03217422 AMBER (CVAY736B2201)

| | |
|---------------------------------|--|
| Indication | Autoimmune hepatitis |
| Phase | Phase 2 |
| Patients | 68 |
| Primary Outcome Measures | Alanine aminotransferase (ALT) normalization |
| Arms Intervention | VAY736 Placebo control with conversion to active VAY736 |
| Target Patients | Autoimmune hepatitis patients with incomplete response or intolerant to standard treatment of care |
| Readout Milestone(s) | 2024 (actual) |
| Publication | TBD |

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

NCT05126277 SIRIUS-LN (CVAY736K12301)

| | |
|---------------------------------|---|
| Indication | Lupus Nephritis |
| Phase | Phase 3 |
| Patients | 420 |
| Primary Outcome Measures | Frequency and percentage of participants achieving complete renal response (CRR) [Time Frame: week 72] |
| Arms Intervention | 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 |
| Target Patients | Patients with active Lupus Nephritis |
| Readout Milestone(s) | Primary 2027 |
| Publication | TBD |



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

NCT05349214 NEPTUNUS-2 (CVAY736A2302)

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

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

NCT05350072 NEPTUNUS-1 (CVAY736A2301)

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



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

NCT05639114 SIRIUS-SLE 1 (CVAY736F12301)

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

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

NCT05624749 SIRIUS-SLE 2 (CVAY736F12302)

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



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LNA043 - ANGPTL3 agonist

NCT04864392 ONWARDS (CLNA043A12202)

| | |
|---------------------------------|---|
| Indication | Knee osteoarthritis |
| Phase | Phase 2 |
| Patients | 576 |
| Primary Outcome Measures | Change from baseline in the cartilage thickness of the medial compartment of the knee as assessed by imaging |
| Arms Intervention | 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 |
| Target Patients | Patients with Symptomatic knee osteoarthritis |
| Readout Milestone(s) | Primary 2024 |
| Publication | TBD |



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remibrutinib - BTK inhibitor

NCT05030311 REMIX-1 (CLOU064A2301)

| | |
|---------------------------------|--|
| Indication | Chronic spontaneous urticaria |
| Phase | Phase 3 |
| Patients | 470 |
| Primary Outcome Measures | 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) |
| Arms Intervention | 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) |
| Target Patients | Adult participants suffering from chronic spontaneous urticaria (CSU) inadequately controlled by H1-antihistamines in comparison to placebo |
| Readout Milestone(s) | Actual (2024) |
| Publication | 24-wk data at ACAAI Nov 2023 52-wk data at EAACI May 2024 |

remibrutinib - BTK inhibitor

NCT05032157 REMIX-2 (CLOU064A2302)

| | |
|---------------------------------|---|
| Indication | Chronic spontaneous urticaria |
| Phase | Phase 3 |
| Patients | 455 |
| Primary Outcome Measures | 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) |
| Arms Intervention | 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) |
| Target Patients | Adult participants suffering from chronic spontaneous urticaria (CSU) inadequately controlled by H1-antihistamines in comparison to placebo |
| Readout Milestone(s) | Actual (2024) |
| Publication | 24-wk data at ACAAI Nov 2023 52-wk data at EAACI May 2024 |



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remibrutinib - BTK inhibitor

NCT05976243 (CLOU064M12301)

| | |
|---------------------------------|---|
| Indication | Chronic inducible urticaria |
| Phase | Phase 3 |
| Patients | 348 |
| Primary Outcome Measures | <ol style="list-style-type: none"> 1. Proportion of participants with complete response in Total Fric Score; symptomatic dermographism [Time Frame: Week 12] 2. Proportion of participants with complete response in critical temperature threshold; cold urticaria [Time Frame: Week 12] 3. Proportion of participants with itch numerical rating scale =0; cholinergic urticaria [Time Frame: Week 12] |
| Arms Intervention | <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> |
| Target Patients | Adults suffering from CINDU inadequately controlled by H1-antihistamines |
| Readout Milestone(s) | 2026 |
| Publication | TBD |



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Mayzent® - S1P1,5 receptor modulator

NCT04926818 NEOS (CBAF312D2301)

| | |
|---------------------------------|--|
| Indication | Multiple sclerosis, pediatrics |
| Phase | Phase 3 |
| Patients | 120 |
| Primary Outcome Measures | Annualized relapse rate (ARR) in target pediatric participants |
| Arms Intervention | 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 |
| Target Patients | Children/adolescent patients aged 10-17 years old with Multiple Sclerosis (MS). The targeted enrollment is 180 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. |
| Readout Milestone(s) | 2027 |
| Publication | TBD |



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remibrutinib - BTK inhibitor

NCT05147220 REMODEL-1 (CLOU064C12301)

| | |
|---------------------------------|---|
| Indication | Multiple sclerosis |
| Phase | Phase 3 |
| Patients | 800 |
| Primary Outcome Measures | Annualized relapse rate (ARR) of confirmed relapses [Core Part]. ARR is the average number of confirmed MS relapses in a year |
| Arms Intervention | 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) |
| Target Patients | Patients with relapsing Multiple Sclerosis |
| Readout Milestone(s) | Estimated primary completion 2026 |
| Publication | TBD |

remibrutinib - BTK inhibitor

NCT05156281 REMODEL-2 (CLOU064C12302)

| | |
|---------------------------------|---|
| Indication | Multiple sclerosis |
| Phase | Phase 3 |
| Patients | 800 |
| Primary Outcome Measures | Annualized relapse rate (ARR) of confirmed relapses |
| Arms Intervention | 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 |
| Target Patients | Patients with relapsing Multiple Sclerosis |
| Readout Milestone(s) | Estimated primary completion 2026 |
| Publication | TBD |



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Zolgensma® - SMN1 gene replacement therapy

NCT05089656 STEER (COAV101B12301)

| | |
|---------------------------------|---|
| Indication | Spinal muscular atrophy (IT administration) |
| Phase | Phase 3 |
| Patients | 125 |
| Primary Outcome Measures | 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 ≥ 2 to < 18 years age group |
| Arms Intervention | 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. |
| Target Patients | Patients Type 2 Spinal Muscular Atrophy (SMA) who are ≥ 2 to < 18 years of age, treatment naive, sitting, and never ambulatory |
| Readout Milestone(s) | 2024 |
| Publication | TBD |

Zolgensma® - SMN1 gene replacement therapy

NCT05386680 STRENGTH (COAV101B12302)

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



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Iptacopan - CFB inhibitor

CLNP023Q12301

| | |
|---------------------------------|---|
| Indication | Generalized Myasthenia Gravis |
| Phase | Phase 3 |
| Patients | 146 |
| Primary Outcome Measures | Change from baseline to Month 6 in Myasthenia Gravis Activity of Daily Living (MG-ADL) total score |
| Arms Intervention | 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 |
| Target Patients | Patients with generalized MG who anti-AchR-positive and are not adequately responding to 2/3rd line SoC. |
| Readout Milestone(s) | 2027 |
| Publication | TBD |



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

NCT05653349 VAYHIT1 (CVAY736I12301)

| | |
|---------------------------------|---|
| Indication | 1L Immune Thrombocytopenia |
| Phase | Phase 3 |
| Patients | 225 |
| Primary Outcome Measures | Time from randomization to treatment failure (TTF) |
| Arms Intervention | 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) |
| Target Patients | Adult patients with primary ITP |
| Readout Milestone(s) | 2026 |
| Publication | TBD |

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

NCT05653219 VAYHIT2 (CVAY736Q12301)

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



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

NCT05648968 VAYHIA (CVAY736O12301)

| | |
|---------------------------------|--|
| Indication | Warm autoimmune hemolytic anemia |
| Phase | Phase 3 |
| Patients | 90 |
| Primary Outcome Measures | Binary variable indicating whether a patient achieves a durable response Durable response: hemoglobin level ≥ 10 g/dL and ≥ 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 |
| Arms Intervention | Arm 1: experimental lanalumab low dose (intravenously) Arm 2: experimental lanalumab high dose (intravenously) Arm 3: placebo Comparator (intravenously) |
| Target Patients | Previously treated patients with warm Autoimmune Hemolytic Anemia |
| Readout Milestone(s) | 2026 |
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iptacopan - CFB inhibitor

NCT04889430 APPELHUS (CLNP023F12301)

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



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Pluvicto® - Radioligand therapy target PSMA

NCT04689828 PSMAfore (CAAA617B12302)

| | |
|---------------------------------|---|
| Indication | Metastatic castration-resistant prostate cancer, pre-taxane |
| Phase | Phase 3 |
| Patients | 450 |
| Primary Outcome Measures | Radiographic Progression Free Survival (rPFS) |
| Arms Intervention | Arm 1: Participants will receive 7.4 GBq (200 mCi) +/- 10% ¹⁷⁷ 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 |
| Target Patients | mCRPC patients that were previously treated with an alternate ARDT and not exposed to a taxane-containing regimen in the CRPC or mHSPC settings |
| Readout Milestone(s) | Primary Analysis: 2022 (actual) Final Analysis: 2025 |
| Publication | 6 June 2024: SNMMI Abstract of the Year: [¹⁷⁷ 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)

| | |
|---------------------------------|---|
| Indication | Metastatic hormone sensitive prostate cancer |
| Phase | Phase 3 |
| Patients | 1126 |
| Primary Outcome Measures | Radiographic Progression Free Survival (rPFS) |
| Arms Intervention | Arm 1: ¹⁷⁷ Lu-PSMA-617 Participant will receive 7.4 GBq (+/- 10%) ¹⁷⁷ 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 |
| Target Patients | Patients with metastatic Hormone Sensitive Prostate Cancer (mHSPC) |
| Readout Milestone(s) | Primary Analysis: 2025 |
| Publication | TBD |



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Rydapt® - Multi-targeted kinase inhibitor

NCT03591510 (CPKC412A2218)

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



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Scemblix® - BCR-ABL inhibitor

NCT04971226 ASC4FIRST (CABL001J12301)

| | |
|---------------------------------|--|
| Indication | Chronic myeloid leukemia, 1st line |
| Phase | Phase 3 |
| Patients | 402 |
| Primary Outcome Measures | Major Molecular Response (MMR) at week 48 |
| Arms Intervention | 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 |
| Target Patients | Patients with newly diagnosed philadelphia chromosome positive chronic myelogenous leukemia in chronic phase |
| Readout Milestone(s) | 2024 (actual) |
| Publication | 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)

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



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Beovu® - VEGF Inhibitor

NCT04278417 CONDOR (CRTH258D2301)

| | |
|---------------------------------|---|
| Indication | Diabetic retinopathy |
| Phase | Phase 3 |
| Patients | 694 |
| Primary Outcome Measures | Change from Baseline in BCVA |
| Arms Intervention | Arm 1: RTH258 (brolucizumab) 6 mg/50uL Arm 2: Panretinal photocoagulation laser initial treatment followed with additional PRP treatment as needed |
| Target Patients | Patients with proliferative diabetic retinopathy |
| Readout Milestone(s) | 2024 |
| Publication | 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)

| | |
|---------------------------------|--|
| Indication | Malaria severe |
| Phase | Phase 2 |
| Patients | 252 |
| Primary Outcome Measures | Percentage of participants achieving at least 90% reduction in Plasmodium falciparum (P. falciparum) at 12 hours [Time Frame: Day 1 (12 Hours)] |
| Arms Intervention | Arm 1: experimental, IV KAE609 Dose regimen 1 Arm 2: experimental, IV KAE609 Dose regimen 2 Arm 3: experimental, IV KAE609 Dose regimen 3 Arm 4: active comparator, IV Artesunate Arm 5: Coartem, Standard of care |
| Target Patients | Patients with Malaria, severe |
| Readout Milestone(s) | 2025 |
| Publication | TBD |



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Coartem[®] - Artemisinin combination therapy

NCT04300309 CALINA (CCOA566B2307)

| | |
|---------------------------------|---|
| Indication | Malaria, uncomplicated (<5kg patients) |
| Phase | Phase 3 |
| Patients | 44 |
| Primary Outcome Measures | Artemether Cmax |
| Arms Intervention | Experimental: artemether lumefantrine (2.5 mg:30 mg) artemether lumefantrine (2.5 mg:30 mg) bid over 3 days, from 1-4 tablets per dose |
| Target Patients | Infants and Neonates <5 kg body weight with acute uncomplicated plasmodium falciparum malaria |
| Readout Milestone(s) | Primary (actual) 2024 (final) |
| Publication | TBD |



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ganaplacide/lumefantrine - Non-artemisinin plasmodium falciparum inhibitor

NCT05842954 KALUMA (CKLU156A12301)

| | |
|---------------------------------|--|
| Indication | Malaria, uncomplicated |
| Phase | Phase 3 |
| Patients | 1500 |
| Primary Outcome Measures | PCR-corrected adequate clinical and parasitological response (ACPR) at day 29 |
| Arms Intervention | Arm 1 experimental: KLU156 oral; 400/480 mg is the dose 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. |
| Target Patients | Adults and children \geq 5 kg Body Weight with uncomplicated P. Falciparum Malaria |
| Readout Milestone(s) | 2025 |
| Publication | TBD |



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Entresto® (slide 6 references)

- 1 IQVIA National Prescription Audit.
- 2 AHA/ACC/HFSA/ESC.
- 3 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, HS, SpA. Source: IQVIA National Source of Business (NSOB) 21 June 2024.
- 2 Refers to EU5. Indications: Pso, PsA, axSpA. Source: IQVIA LRx, FR: IQVIA Ltd, UK: IQVIA Analyser, IT: Stethos, ES: Amber Market Research (April 2024).
- 3 Refers to hospital market value share. All indications of key immunology brands including those not relevant to Cosentyx. Source: IQVIA China Immunology Market Value Share (April 2024).
- 4 US, DE, UK, FR, ES, AU.
- 5 IV formulation indication: PsA, AS, nr-axSpA.

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 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.
- 4 Kramer J, Linker R, Paling D, Czaplinski A, Hoffmann O, Yong VW, Barker N, Ross AP, Lucassen E, Gufran M, Hu X, Zielman R, Seifer G, Vermersch P. Tolerability of subcutaneous ofatumumab with long-term exposure in relapsing multiple sclerosis. *Mult Scler J Exp Transl Clin.* 2023 Oct 10;9(4):20552173231203816. doi: 10.1177/20552173231203816. PMID: 37829441; PMCID: PMC10566276.
- 5 Tai et al, Real World Persistence and Adherence to Ofatumumab vs Ocrelizumab in Patients with Multiple Sclerosis. Poster presented at CMSC 38th Annual Meeting May 29 - June 1, 2024:Nashville TN.
- 6 Gartner J, Hauser SL, Bar-Or A, et al. Efficacy and safety of ofatumumab in recently diagnosed, treatment-naïve patients with multiple sclerosis: results from ASCLEPIOS I and II. *Mult Scler.*2022;28(10):1562-1575.

Kisqali® (slide 9 references)

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



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Leqvio® (slide 11 references)

- 1 Includes PCSK9 mAbs and bempedoic acid.
- 2 Niu X et al. Poster presented at: National Lipid Association Scientific Sessions 2024; May 30-June 2, 2024. Las Vegas, NV. PO#158.
- 3 Data based on four markets (Japan, Germany, Spain, Italy). YoY vs. Q1 2023.

Scemblix® (slide 13 references)

- 1 Clopper-Pearson 95% CI.
- 2 The common risk difference and its 95% CI estimated using the Mantel-Haenszel method after stratifying for (a) pre-randomization selected TKI, and (b) baseline ELTS risk groups (both IRT data).
- 3 Adjusted 1-sided p-value calculated based on the graphical gatekeeping procedure. The null hypothesis is rejected if the adjusted p-value is less than or equal to 0.025.
- 4 Safety analyses consisted of patients who received ≥ 1 dose of study drug. Patients were analyzed according to the study treatment received. The most common AEs leading to treatment discontinuation were lipase increases with Scemblix (1.5%), diarrhea and lymphopenia with imatinib (2.0% each), and pleural effusion with 2G TKIs (2.0%).
- 5 Investigator selected 2G TKIs – nilotinib, dasatanib, bosutinib.

Atrasentan (slide 15 references)

- 1 Relative reduction in mean percentage change in UPCR from baseline (95% CI) for atrasentan compared with placebo: -36.1% (-44.6, -26.4), $p < 0.0001$. Heerspink HJL, et al. Efficacy and safety of atrasentan in IgA nephropathy: A pre-specified interim analysis of a Phase 3 randomized controlled clinical trial. ERA. May 25, 2024.
- 2 IgAN patients with persistent proteinuria levels of ≥ 1 g/day are at higher risk of disease progression. Reich HN, et al. Remission of Proteinuria Improves Prognosis in IgAN. J Am Soc Nephrol. 2007
- 3 Rodrigues J, et al. Clin J Am Soc Nephrol. 2017;12(4):677-686
- 4 Pitcher D et al. Clin J Am Soc Nephrol. 2023;18(6):727-738
- 5 Hastings MC et al. Kidney Int Rep. 2018;3(1):99-104
- 6 Sim JJ et al. Poster TH-PO615 presented at: ASN Kidney Week 2023; November 2-5, 2023; Philadelphia, PA.
- 7 Bobart SA et al. Nephrol Dial Transplant. 2021;36(5):840-847.