Conclusions

Q32023 Result Investor presentation



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Vas Narasimhan, M.D.

Chief Executive Officer

Company overview



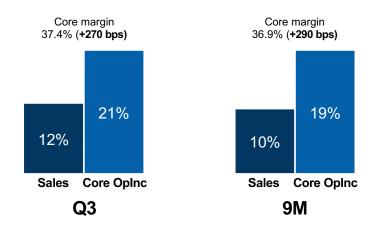
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SUMMARY

Novartis delivers strong sales growth, robust margin expansion and raises guidance. Successfully spun Sandoz

Growth and productivity¹

% cc



FY 2023 guidance raised¹

Sales expected to grow high single digit; Core OpInc expected to grow mid to high teens (from low double digit to mid teens)

Successful spin-off of Sandoz

Completed October 4, 2023

Several major innovation milestones in Q3

- Cosentyx[®] IV formulation approved in US (PsA, AS, nr-axSpA)
- Leqvio[®] approved in China and Japan
- Kisqali[®] submitted in EU; US submission planned in Q4 2023

Clinically meaningful and statistically significant Ph3 data for multiple assets with blockbuster potential

- Pluvicto[®] mCRPC pre-taxane
- Iptacopan IgAN
- Remibrutinib CSU
- Lutathera[®] GEP-NETs

^{1.} Continuing operations. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 48 of Condensed Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY. OpInc – operating income.

Strong Q3 growth driven by performance from Kesimpta[®], Entresto[®], Kisqali[®] and Pluvicto[®]. Cosentyx[®] returns to growth

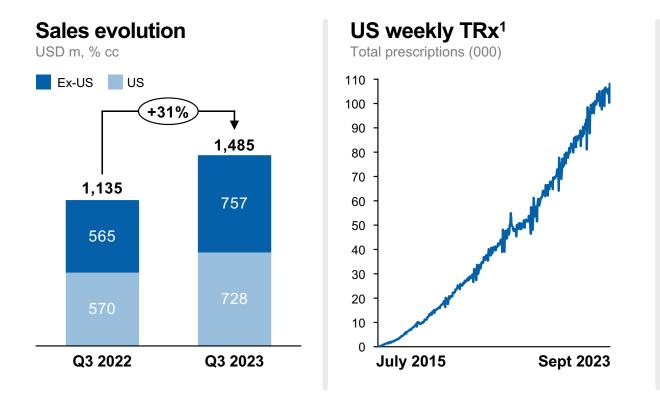
Q3 sales

	Sales USD million	Growth vs. PY USD million			Growth vs. PY	
(ofatumumab)	657			368	124%	
Entresto" sacubitril/valsartan	1,485			350	31%	
KISQALI ° ribociclib	562		235		76%	Strong growth
<i>©</i>PLUVICTO™	256		176		217%	(+41% cc);
SCEMBLIX* (asciminib) Imp. Ang tanks	106	65			157%	expected to continue
Sa Feóno.	90	56			165%	
Cosentyx"	1,329	55			4%	
	335	63			24%	
PROMACTA® (eltrombopag)	576	53			10%	
Xolair Amalizamat	369	47			13%	
	427	41			9%	

Constant currencies (cc) is a non-IFRS measure; explanation of non-IFRS measures can be found on page 48 of Condensed Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

Entresto[®]

Entresto[®] delivers 31% growth with sales approaching USD 1.5bn in the quarter



Strong Q3 momentum

- US: robust growth outpacing market, sales +28% cc, ~1.4m TRx in Q3¹
- Ex-US: sales +34% cc
- China/Japan: significant contribution from HTN²

Confidence in future growth

- Strong guidelines position³ (US/EU)
- Expect further penetration in HF (2/3 eligible patients still on prior SoC) and HTN (China/Japan)
- EU: paediatric approval confirms RDP to Nov 2026⁴
- US: appeal filed to uphold validity of combination patent; other patent litigation ongoing and no generics have FDA approval⁵

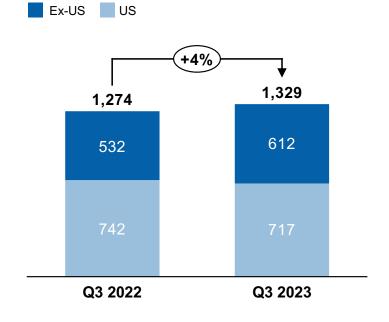
See last page for references. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 48 of Condensed Interim Financial Report. TRx – total prescriptions. HF – heart failure. HTN – hypertension. RDP – Regulatory data protection. SOC – standard of care.

*****Cosentyx

Cosentyx[®] returns to growth; expecting stronger Q4

Sales evolution

USD m, % cc



Q3 performance

- US sales (-3%): supported by volume growth, offset by PY base effects
- Ex-US sales (+15%): growth in core indications

Q4 expect stronger sales growth

- US: continuing volume growth; lower PY base due to Q4 2022 RD true-up
- EU: HS approved in Q2, launch on track

Life cycle management

- US: V formulation¹ approved, HS approval expected Q4
- 3 Ph3 studies ongoing: GCA, Polymyalgia Rheumatica, Rotator Cuff Tendinopathy

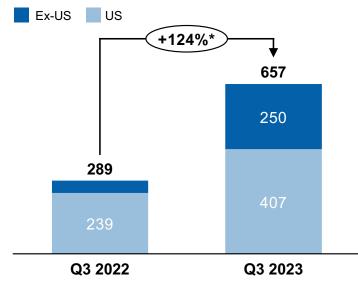
GCA – Giant Cell Arteritis. HS – hidradenitis suppurativa. IV – intravenous. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 48 of Condensed Interim Financial Report. 1. for adult AS, PsA and nr-axSpA.

💫 Kesimpta

Kesimpta[®] continues strong launch trajectory across regions

Sales evolution

USD m, % cc



*Without the one-time revenue deduction adjustment, sales growth **+86% cc**

US: growing faster than market^{1,2}

- TRx +75% Q3 vs. PY (market +3%)
- NBRx +30% Q3 vs. PY (market +18%)
- B-cell NBRx share ~56% of MS market

Europe: launch momentum progressing

- >29k patients treated, majority naive or first switch
- Q3 sales includes one-time revenue deduction adjustment*

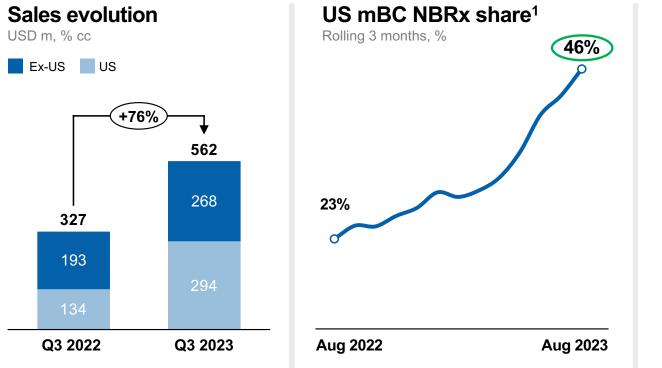
Confident in future growth

- Only about 1/3 of MS patients on B-cell therapy
- NBRx leadership in key markets including Germany
- Compelling product profile: 1 minute a month dosing from home/anywhere³; 5-year efficacy⁴, safety and tolerability data^{5,6}

See last page for references. TRx – total prescriptions. NBRx – new to brand prescription. MS - Multiple Sclerosis. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 48 of Condensed Interim Financial Report.

KISQALI

Kisqali[®] sales grew 76% to USD 562m, with increasing recognition of its differentiated benefit-risk profile



Consistent efficacy

Kisqali Ph3 OS results in 1L mBC²

Stage IV	HR	95% CI
MONALEESA-2	0.76	(0.63, 0.93)
MONALEESA-7	0.76	(0.61, 0.96)
MONALEESA-3	0.67	(0.50, 0.90)

Consistent OS benefit across 3 Ph3 studies

NCCN guideline support as only Category 1 treatment for 1L mBC with Al³

Right Choice data showing benefit vs. doublet chemo in aggressive HR+/HER2- mBC

Most adverse events asymptomatic

mBC – metastatic breast cancer. NBRx – new to brand prescription. NCCN – national comprehensive cancer network. AI – aromatase inhibitor. 1. Of CDK4/6 mBC market, US 3 months ending Aug 2023, IQVIA Breast Cancer Market Sizing report. 2. MONALEESA-2: Hortobagyi et al, NEJM 2022; MONALEESA-7: Lu et al, Clin Cancer Res 2022; MONALEESA-3: Neven et al, ESMO Breast 2022. 3. NCCN Guidelines updated as of 27-Jan-2023. Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 48 of Condensed Interim Financial Report.

Kisqali[®] Ph3 NATALEE iDFS 500 event analysis complete, US submission planned for Q4 2023; file submitted in EU



Ph3 NATALEE results as presented at ASCO 2023¹

Second interim efficacy analysis at 426 iDFS events

	HR	95% CI
iDFS – total population	0.75	(0.62, 0.91)
iDFS – stage II	0.76	(0.53, 1.10)
iDFS – stage III	0.74	(0.59, 0.92)
iDFS – node negative	0.63	(0.34, 1.16)
iDFS – node positive	0.77	(0.63, 0.94)
RFS	0.72	(0.58, 0.88)
DDFS	0.74	(0.60, 0.91)
OS	0.76	(0.54, 1.07)

ESMO 2023 updates

Consistent iDFS benefit² across subgroups: stage, menopausal status, age, nodal status

Good tolerability profile³: addition of Kisqali[®] to ET did not compromise patients' QoL on any of the scales evaluated

Regulatory status / next steps

✓ Filed in Europe

500 iDFS event milestone reached; data consistent with interim analysis (March 2023⁴)

US submission planned for Q4 2023

1. Interim analysis. Slamon D, Stroyakovskiy D, Yardley D, et al. Ribociclib and endocrine therapy as adjuvant treatment in patients with HR+/HER2- early breast cancer. 2. Slamon D, et al. ASCO 2023. LBA500 [Oral]. 3. Fasching PA, et al. ESMO 2023 Virtual Plenary. Oral VP3-2023. 4. Interim analysis in March 2023, data presented at ASCO 2023.



Company overview

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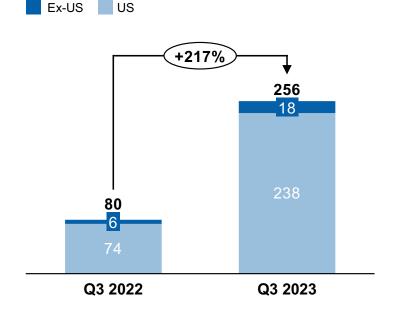
GROWTH

Pluvicto[®] grew to USD 256m; supply now unconstrained, focusing on initiating new patients



Sales evolution

USD m, % cc



Continued progress in Q3

- Growth rates slowed in the quarter given supply challenges earlier in the year
- >200 active centers ordering in US and onboarding another approximately 130
- Ex-US reimbursement discussions ongoing

Supply capacity now unconstrained; maintaining reliability

- Millburn capacity expanded with FDA approval of two additional lines
- Indianapolis site submitted for FDA approval

PSMAfore study showed robust efficacy with favorable safety of Pluvicto[®] in PSMA+ mCRPC patients in the pre-taxane setting

Robust efficacy	Pluvicto [®] vs. ARPI arm
✓ rPFS ¹	HR 0.41 (0.29, 0.56)
Median rPFS ²	12.0 vs. 5.6 months
SA50 response	57.6% vs. 20.4%
✓ Time to SSE ³	HR 0.35 (0.22, 0.57)
✓ ORR ⁴	50.7% vs. 14.9%
✓ Time to worsening (FACT-P ⁵)	HR 0.59 (0.47, 0.72)
✓ Time to worsening (BPI-SF ⁶)	HR 0.69 (0.56, 0.85)
Crossover-adjusted OS	HR 0.80 (0.48, 1.33)
Unadjusted OS (84% crossover)	HR 1.16 (0.83, 1.64)

Favorable safety

- ✓ Vast majority of AEs low-grade
- Grade 3-4 AEs: 33.9% Pluvicto[®] vs. 43.1% ARPI
- SAEs: 20.3% Pluvicto[®] vs. 28.0% ARPI
- \checkmark AEs leading to discontinuation⁷: 5.7% vs. 5.2%
- \checkmark AEs leading to dose adjustment⁷: 3.5% vs. 15.1%

Overall exposure to Pluvicto® ~2,000 patient-years (incl. VISION, PSMAfore and post-marketing experience)

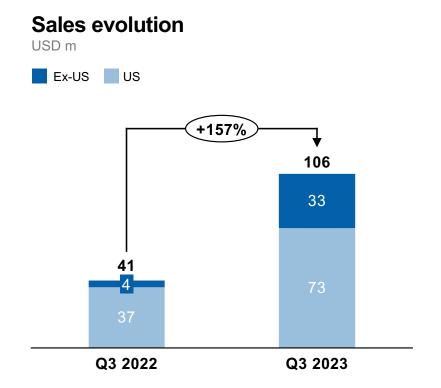
Presented at ESMO; submission to FDA now planned in 2024



^{1.} Primary rPFS analysis based on 166 rPFS events per BICR assessment (or centrally confirmed rPFS events); 1-sided p-value: <0.0001. Updated analysis of rPFS (at time of 2nd interim OS analysis) was consistent, with HR 0.43 (0.33, 0.54). All other data points from updated analysis with more mature data. 2. (95% CI): 12.0 (9.3, 14.4) vs. 5.6 (4.2, 5.95). 3. SSE = symptomatic skeletal event. 4. ORR in soft tissue per RECIST 1.1 for pts with measurable disease at baseline; (95% CI): 5. FACT-P: prostate cancer-specific quality of life. 6. BPI-SF: severity of pain and impact of pain on daily functions. 7. Comparisons for Pluvicto[®] vs. ARPI arm.

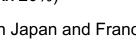
(asciminib) 20 mg. 40 mg table

Scemblix[®] sales grew across all regions, demonstrating the high unmet need in CML



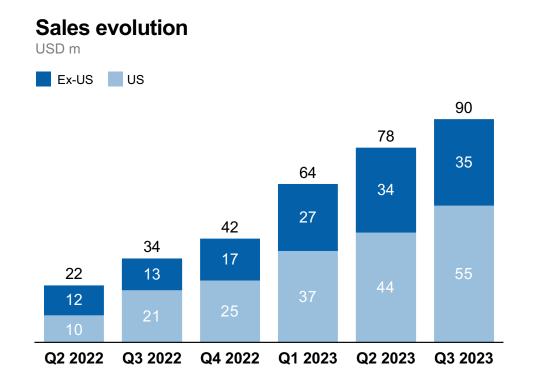
- Q3 sales reflect continued demand from patients with Ph+ CML-CP resistant or intolerant to 2 or more prior TKIs
- Leading market share 3L+ in US (NBRx 34%, TRx 20%)
- Global rollout ongoing with strong performance in Japan and France
- >40% of patients not satisfied with side effect profile of 1st and 2nd generation TKIs, highlighting need for more tolerable treatments¹
- ASC4FIRST (1L registrational study) readout and filing expected 2024

Ph+ CML-CP – Philadelphia chromosome-positive chronic myeloid leukemia in chronic phase. 1. Survey on unmet needs in CML at EHA: reveals the need for treatment decisions that balance quality of life, efficacy, and tolerability goals; Chronic Myeloid Leukemia Survey on Unmet Needs (CML SUN).



. I

Leqvio[®] adoption continues to expand steadily



US: Building foundation for acceleration

Adoption

- 3,100 facilities have ordered Leqvio[®] (+16% vs. Q2)
- >55% of business is from buy and bill

Enablers for future growth

- Drive depth in key accounts with high utilization
- Increase confidence in buy and bill
- Improve HCP targeting

Ex-US rollout continues

Approved in China and Japan

B&B – Buy and Bill. Leqvio[®] is administered initially, again at 3 months, and then once every 6 months. Novartis has obtained global rights to develop, manufacture and commercialize Leqvio[®] under a license agreement with Alnylam Pharmaceuticals, Inc.

Key 2023 readouts for high-value medicines on track

Key assets* with submission enabling readouts in 2023

Kisqali[®]

Ph3 NATALEE trial in adjuvant breast cancer testing broad patient population (anatomical stage II and III¹).

500 iDFS event milestone reached: data consistent with interim analysis (March 2023²)

Filed in EMA in Q3

FDA regulatory submission planned in Q4 2023

Pluvicto[®]

PSMAfore trial in mCRPC (post-ARDT, pre-taxane) positive readout

Detailed data presented at ESMO 2023

FDA regulatory submission now planned in 2024

Iptacopan

PNH filed with FDA and EMA in Q2 2023

APPLAUSE-IgAN Ph3 met its pre-specified interim analysis primary endpoint³ in Q3 2023

APPEAR-C3G Ph3 readout expected in Q4 2023

Atrasentan

IgAN readout expected in Q4 2023

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*Unprobabilized estimated peak sales of all asset indications in late-stage development: 🔵 > USD 1bn 🛛 🌑 🔵 > USD 2bn 🔹 🔵 🔵 > USD 3bn

mCRPC - metastatic castration resistant prostate cancer. ARDT - androgen receptor directed therapy. 1. Based on AJCC prognostic staging. 2. Interim analysis in March 2023, data presented at ASCO 2023. 3.9 months readout may support US submission for accelerated approval.

Submission enabling readouts expected to increase in 2024-2025 timeframe

Selected key assets* with submission enabling readouts in 2024-2025

 Remibrutinib
 Pluvicto®

 CSU
 Positive readout for primary analysis¹; data to be presented at ACAAI 2023
 mHSPC

 Final (52 weeks) readout and submission expected in 2024
 CAV-101

 Scemblix®
 SMA IT

 Readout expected in
 Readout expected in

1L CML-CP Readout and submission expected in 2024



Readout expected in 2024; submission planned in 2025 • F

> USD 3bn

Pelacarsen

CVRR Readout and submission expected in 2025

lanalumab

1L and 2L ITP readouts expected in 2025 with submission planned in 2026

Additional hematology and immunology indications 2026+

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Iptacopan



Additional readouts/submissions expected in 2025/2026+

*Unprobabilized estimated peak sales of all asset indications in late-stage development:
> USD 1bn • • • USD 2bn

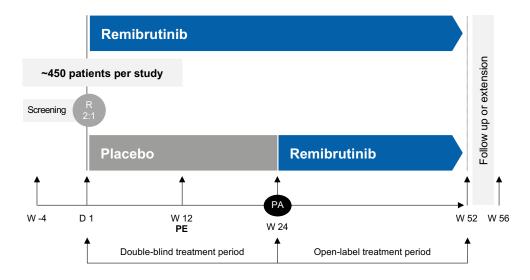
CSU – chronic spontaneous urticaria. CML-CP – chronic myeloid leukemia in chronic phase. mHSPC – metastatic hormone-sensitive prostate cancer. SMA IT – spinal muscular atrophy intrathecal. CVRR – cardiovascular risk reduction. ITP – immune thrombocytopenia. 1. Double blind treatment period of 24 weeks with primary analysis at 12 weeks. 2. Event-driven trial endpoint.

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INNOVATION

Remibrutinib demonstrated clinically meaningful and statistically significant benefit in Ph3 CSU trials

Ph3 REMIX 1 & 2 studies



All participants on a stable, locally label approved dose of a second generation H_1 -AH ("background therapy") throughout the entire study

Remibrutinib met ALL primary and secondary endpoints at 12 weeks

- Clinically meaningful and statistically significant reduction in urticaria activity
- **Fast symptom improvement** as early as 2 weeks¹
- Well tolerated and favorable safety profile (incl. balanced liver function tests)

🖊 Oral

Next steps

Presentation at ACAAI 2023; final 52 week readout and filing expected in 2024

CSU - Chronic spontaneous urticaria. PA – Primary analysis. 1. As illustrated by a higher proportion of patients achieving UAS7≤6 at Week 2 in the REMIX-1 and REMIX-2 studies when treated with remibrutinib compared to placebo.



Remibrutinib – opportunity for efficacious oral therapy with fast onset of action¹ after antihistamines

Remibrutinib, a highly selective oral BTKi

WW: 40m CSU patients²; US: ~1.1m treated adults with CSU³

Antihistamines	CSU treatment gap	Biologics
~600k ³ patients controlled with SoC ⁴	~400k ³ patients not controlled with SoC ⁴	Only ~80k³ patients treated with biologics
	High unmet need after antihistamines	
	Copportunity for Remibrutinib	

CSU - Chronic spontaneous urticaria. HCP - Healthcare professional. SOC – Standard of care. 1. As illustrated by a higher proportion of patients achieving UAS7≤6 at Week 2 in the REMIX-1 and REMIX-2 studies when treated with remibrutinib compared to placebo. 2. Maurer M, Weller K, Bindslev-Jensen C, et al. Unmet clinical needs in chronic spontaneous urticaria. A GA2LEN task force report. Allergy. 2011;66:317-330 and The World Bank. Population, total. Available from: https://data.worldbank.org/indicator/SP.POP.TOTL [Last accessed: July 2023]. 3. US only Novartis internal analysis. 4. H1, H2 antihistamines and antihistamines escalation.



LIC measural and a

Iptacopan is a potential first-in-class, oral, selective factor B inhibitor, targeting complement system proximally via alternative pathway¹

Indication	2021	2022	2023	2024	2025	2026+	Key updates	US prevalence Thousands
PNH	Ph3 - APF	PLY	•				Superior to SoC for both primary endpoints in patients with residual anemia despite SoC	<10
	Ph3 - APF	POINT					Achieved clinically meaningful increases in Hb levels in treatment-naive patients with PNH	
lgA nephropathy	Ph3 - APF	PLAUSE	*				Clinically meaningful and highly statistically significant proteinuria reduction at 9 months	185 ²
C3G	Ph3 - /	APPEAR					Submission enabling readout Q4 2023	<10
aHUS		Ph3 - AP	PELHUS				 Submission enabling readout in 2025 	<10
IC-MPGN			PI	า3			Ph3 started	<10

Additional ongoing early-stage (Ph2) activities in Lupus Nephritis, iAMD

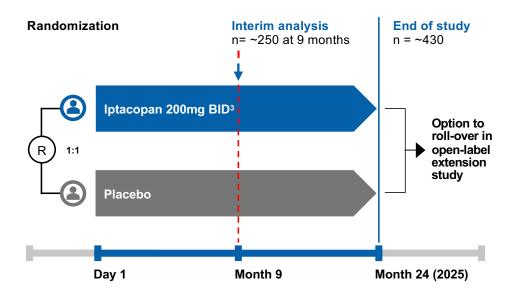
9 months readout may support US submission for accelerated approval

PNH – paroxysmal nocturnal hemoglobinuria. IgAN – immunoglobulin A nephropathy. C3G – complement 3 glomerulopathy. aHUS – atypical hemolytic uremic syndrome. iAMD – intermediate age-related macular degeneration. IC-MPGN – immune complex membranoproliferative Glomerulonephritis. 1. Phase 3 studies initiated; additional indications are being explored. 2. Estimated ~46-55k number of US patients at high risk of progression with proteinuria > 1g/day (~25-30%).

Iptacopan demonstrated clinically meaningful and highly statistically significant proteinuria reduction in Ph3 APPLAUSE-IgAN

Ph3 APPLAUSE-IgAN

Biopsy-confirmed patients with IgA nephropathy at risk of progression with elevated proteinuria (UPCR¹ \geq 1g/g) despite stable background therapy²



Positive top-line results at pre-specified interim analysis

- Superiority vs placebo in proteinuria reduction on top of optimized supportive care
- Clinically meaningful and highly statistically significant proteinuria reduction
- Safety profile consistent with previously reported data
- Oral

Next steps

In discussions with FDA to submit for **accelerated approval Study continues** to assess superiority in slowing disease progression (eGFR slope) for full approval

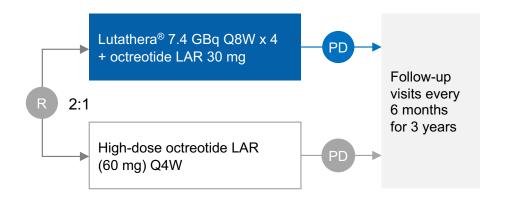
IgAN – IgA nephropathy. eGFR - estimated glomerular filtration. 1. UPCR (urine protein-to-creatinine ratio) from 24-h urine collection. 2. Including at least maximally tolerated dose of ACEi/ARB for at least 90 days. 3. BID – twice daily.



Lutathera[®] Ph3 NETTER-2 results highlight the potential for radioligand therapy (RLT) in earlier disease settings

Demonstrated clinically meaningful and statistically significant benefit in first line setting

- Met primary endpoint of improvement in PFS and key secondary endpoint of ORR
- Safety consistent with well-established profile of Lutathera[®]



NETTER-2 supports potential acceleration of treatment with RLT to 1L

~170k NET patients in US; GEP-NET represent 55-70%

1L	Somatostatin Analogs (SSAs)	>50% treated GEP-NET patients in 1L, treated with SSAs
2L	Lutathera [®] ; everolimus; Sutent [®]	~30% of treated patients in 2L, where Lutathera [®] sees most of its use today
3L	Captem; Lutathera [®] ; everolimus	10-15% of patients in 3L
4L	Captem; other chemo; everolimus	~5% of patients in 4L

Next steps

Full data to be presented at upcoming medical meeting and provided to guideline committees

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GEP-NET – gastroenteropancreatic neuroendocrine tumors.

Company overview	Financial review	Conclusions	Appendix	References	

Harry Kirsch

Chief Financial Officer

Financial review and 2023 guidance

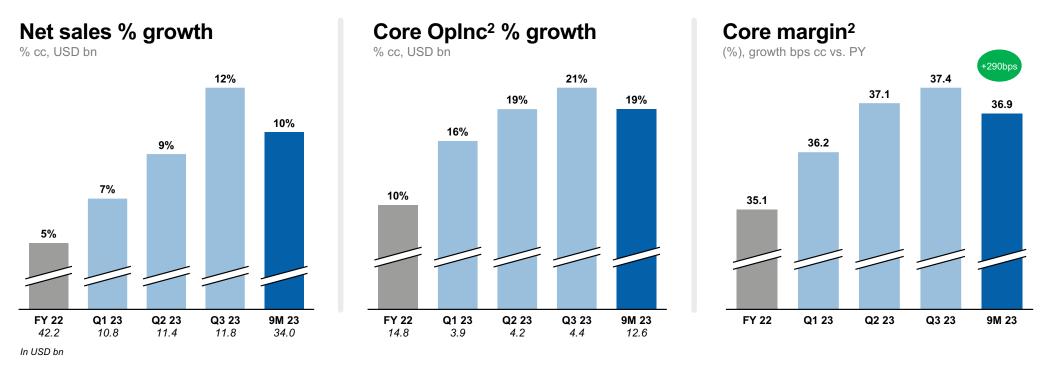


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FINANCIAL PROFILE

2023 performance continues our track record of consistent top-line growth and core margin expansion

Continuing operations¹ performance, numbers restated post-Sandoz spin-off



1. As defined on page 37 of the Condensed Interim Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities 2. Core results and constant currencies are non-IFRS measures. Details regarding non-IFRS measures can be found starting on page 48 of the Condensed Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

23 Investor Relations Q3 2023 Results

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FINANCIAL PROFILE

Robust top and bottom-line growth during the quarter and YTD

Continuing operations ¹	Q3	Change	evs. PY		9M	Change	e vs. PY
USD million	2023	% USD	% cc ²		2023	% USD	% cc ²
Net sales	11,782	12	12		34,017	8	10
Core operating income ²	4,405	17	21		12,551	13	19
Operating income	1,762	-4	13		7,187	16	31
Net income	1,513	14	37		5,934	25	41
Core EPS (USD) ²	1.74	24	29		4.95	21	28
EPS (USD)	0.73	20	45		2.84	31	49
Free cash flow ²	5,043	24		_	11,019	27	

1. As defined on page 37 of the Condensed Interim Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities 2. Core results and constant currencies are non-IFRS measures. Details regarding non-IFRS measures can be found starting on page 48 of the Condensed Interim Financial Report. Unless otherwise noted, all growth rates refer to same period in PY.

Significant improvement in core margin for continuing operations

		Q3	2023		9M 2023			
	Net sales change vs. PY¹ (in % cc)	Core operating income change vs. PY ¹ (in % cc)	Core margin ¹ (%)	Core margin change vs. PY ¹ (%pts cc)	Net sales change vs. PY¹ (in % cc)	Core operating income change vs. PY ¹ (in % cc)	Core margin ¹ (%)	Core margin change vs. PY ¹ (%pts cc)
Continuing operations ²	12	21	37.4	2.7	10	19	36.9	2.9
Discontinued operations ²	6	-38	10.1	-9.3	8	-11	16.0	-3.7
Group	9	14	33.8	1.3	9	15	34.1	2.0

1. Constant currencies (cc), core results are non-IFRS measures. Explanation of non-IFRS measures can be found on page 48 of the Condensed Interim Financial Report 2. As defined on page 37 of the Condensed Interim Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities and Discontinued operations include operational results from Sandoz business.

FINANCIAL PROFILE

Raising FY guidance for core operating income

Expected, barring unforeseen events; growth vs. PY in cc

Novartis (Continuing operations ¹)	
Net sales expected to grow high single digit	Core operating income expected to grow mid to high teens
Unchanged from previous guidance	Raised from low double digit to mid-teens

Key assumptions

- No US Entresto[®] Gx at risk launch in 2023
- No Sandostatin[®] LAR generics enter in the US in 2023

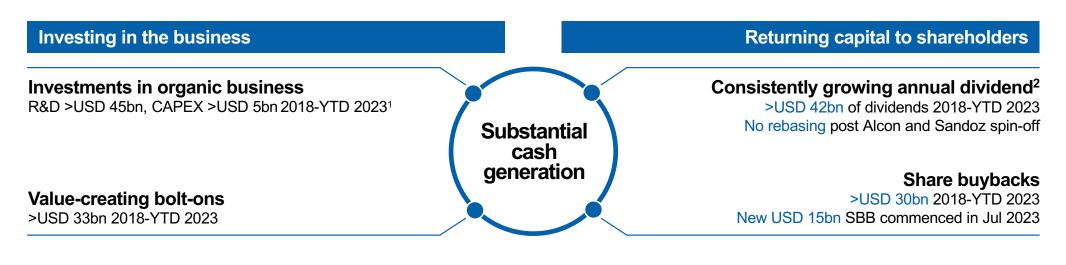
1. As defined on page 37 of the Condensed Interim Financial Report, Continuing operations include the retained business activities of Novartis, comprising the Innovative Medicines Division and the continuing Corporate activities. Core results and constant currencies are non-IFRS measures. Further details regarding non-IFRS measures can be found starting on page 48 of the Condensed Interim Financial Report.

Company overview	Financial review	Conclusions	Appendix	References	f

STRATEGY

UNOVARTIS | Reimagining Medicine

Novartis maintains strong commitment to shareholder value creation



Whilst also creating shareholder value via numerous strategic actions					
Jun 2018 Divested consumer health JV	Apr 2019 Spun Alcon	Nov 2021 Exited Roche stake	Oct 2023 Spun Sandoz		

1. Core R&D and CAPEX actuals. 2. In CHF.

Vas Narasimhan, M.D.

Chief Executive Officer



Delivered a very strong quarter, upgraded FY 2023 guidance. Maintaining our commitment to shareholder value creation

Very strong Q3: sales +12%, core operating income +21% (cc, continuing operations)

Growth drivers continue to perform well in the market: incl. Kesimpta®, Entresto®, Kisqali® and Pluvicto®

Robust pipeline: innovation milestones for Cosentyx[®], Pluvicto[®], iptacopan, remibrutinib, Lutathera[®]

Successfully completed the Sandoz spin-off: focusing on our core business of innovative medicines

Raising 2023 FY guidance

Novartis Capital Markets Day, focus R&D

November 28, 2023 London

Key R&D assets will include: Kisqali[®], Pluvicto[®], Scemblix[®], iptacopan, remibrutinib

Additionally, a short update on strategy



Company overview	Fir	inancial review Conclusions		Appendix	References	
Innovation: Pipeline overview Financia		performance	Innovation: Clinical trials	Abbreviations		

Appendix

Company overview	Fina	ancial review	Conclusions		Appendix	References	
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2023 expected key events

		H1 2023	H2 2023	Status update – as of end Q3
Regulatory	Cosentyx [®] HS	EU	US	EU approval (Q2)
decisions	Cosentyx [®] 2ml Al	US		US approval (Q2)
	Cosentyx [®] IV		US	US approval (Q3)
	Leqvio [®] Hypercholesterolemia		JP, China	Japan and China approval in Q3
Submissions	Iptacopan PNH (US/EU/JP)	US/EU	JP	Filed in US, EU (Q2), JP (Q3)
	Kisqali [®] HR+/HER2- BC (adj)		US	Filed in EU in Q3, US submission planned in Q4
	Pluvicto [®] mCRPC, pre-taxane (US)		US	US submission expected in 2024
Readouts	Kisqali [®] HR+/HER2- BC (adj)		NATALEE Ph3 FIR	Primary endpoint met at interim analysis; 500 iDFS event milestone reached; data consistent with interim analysis (March 2023 ¹)
	Iptacopan IgAN		APPLAUSE-IgAN Ph3	Met pre-specified interim analysis primary endpoint in Q3
	Iptacopan C3G		APPEAR-C3G Ph3	
	Lutathera [®] GEP-NETs		NETTER-2	Met primary endpoint in Q3
Ph3 starts	Iptacopan in IC-MPGN		Ph3	APPARENT trial (Q2)
	Leqvio [®] CVRR primary prevention	Ph3		VICTORION-1P (Q1)
	lanalumab in immune thrombocytopenia	Ph3		1L (VAYHIT1) and 2L (VAYHIT2) FPFV (H1)
	lanalumab in systemic lupus erythematosus	Ph3		SIRIUS-SLE 1 and 2 (Q1)

HS – hidradenitis suppurativa. PNH – paroxysmal nocturnal hemoglobinuria. mCRPC – metastatic castration-resistant prostate cancer. FIR – first interpretable results. IgAN – immunoglobulin A nephropathy. C3G – complement 3 Glomerulopathy. IC-MPGN – immune complex membranoproliferative glomerulonephritis. 1. Interim analysis in March 2023, data presented at ASCO 2023.

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Our pipeline projects at a glance

	Phase 1/2	Phase 3	Registration	Total
Oncology	28	11	2	41
Solid tumors Hematology	16 12	4 7	1 1	21 20
Immunology	19	11	2	32
Neuroscience	5	5	0	10
Cardiovascular	5	10	0	15
Others (thereof IB&GH)	13 (9)	2 (1)	0	15
	70	39	4	113

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

Company overview	Fir	nancial review	Conclusions	Appendix	References	f
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Lead indication

16 lead indications

Novartis pipeline in Phase 1

Oncol	ogy		
Code	Name	Mechanism	Indication(s)
Solid tu	umors		
AAA603	177Lu-NeoB	Radioligand therapy target GRPR	Multiple solid tumors
			Breast cancer
AAA614	AAA614	Radioligand therapy target FAP	Solid tumors
AAA817	225Ac-PSMA-617	Radioligand therapy target PSMA	Metastatic castration-resistant prostate cancer
DFF332	DFF332	HIF2A inhibitor	Renal cell carcinoma
HRO761	HRO761	Werner inhibitor	Solid tumors
IAG933	IAG933	-	Mesothelioma
KFA115	KFA115	Novel immunomodulatory Agent	Solid tumors
MGY825	MGY825	-	NSCLC
NZV930	NZV930	CD73 antagonist	Solid tumors
QEQ278	QEQ278	NKG2D/-L pathway modulator	Solid tumors
Hemato	ology		
DFV890	DFV890	NLRP3 inhibitor	Low risk myelodysplastic syndrome
MBG453	sabatolimab	TIM3 antagonist	Low risk myelodysplastic syndrome
PIT565	PIT565	-	B-cell malignancies
YTB323	rapcabtagene autoleucel	CD19 CAR-T	Adult ALL

Neurc	science		
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

Cardio	ovascular		
Code	Name	Mechanism	Indication(s)
XXB750	XXB750	NPR1 agonist	Heart failure

Immu	nology								
Code	Name	Mechanism	Indication(s)						
MHV370	MHV370	TLR7, TLR8 Antagonist	Systemic lupus erythematosus						
Others	Others								
Code	Name	Mechanism	Indication(s)						
IB&GH									
EDI048	EDI048	CpPI(4)K inhibitor	Cryptosporidiosis						
EYU688	EYU688	NS4B inhibitor	Dengue						
INE963	INE963	-	Malaria, uncomplicated						



Company overview	Fir	nancial review	Conclusions		Appendix	References	f
Innovation: Pipeline overview		Financial p	performance		Innovation: Clinical trials	Abbreviations	

Lead indication

21 lead indications

Novartis pipeline in Phase 2

Oncology				
Code	Name	Mechanism	Indication(s)	
Solid tu	imors			
AAA601	Lutathera®	Radioligand therapy target SSTR	GEPNET, pediatrics 1L ES-SCLC Glioblastoma	
JDQ443	opnurasib	KRAS inhibitor	NSCLC and CRC (mono and/or combo)	
TNO155	TNO155	SHP2 inhibitor	Solid tumors	
Hemato	ology			
ABL001	Scemblix®	BCR-ABL inhibitor	Chronic myeloid leukemia, 2L, pediatrics	
INC424	Jakavi®	JAK1/2 inhibitor	Acute GVHD, pediatrics	
			Chronic GVHD, pediatrics	
MBG453	sabatolimab	TIM3 antagonist	Unfit acute myeloid leukemia	
			Acute myeloid leukemia, maintenance	
PHE885	durcabtagene autoleucel	BCMA cell therapy	4L multiple myeloma	
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)
BLZ945	sotuletinib	CSF-1R inhibitor	Amyotrophic lateral sclerosis
DLX3131	minzasolmin	Alpha-synuclein misfolding inhibitor	Parkinson's disease

Cardio	Cardiovascular			
Code	Name	Mechanism	Indication(s)	
CFZ533	iscalimab	CD40 inhibitor	Lupus nephritis	
LNP023	iptacopan	CFB inhibitor	Lupus nephritis	
TIN816	TIN816	ATP modulator	Acute kidney injury	
XXB750	XXB750	NPR1 agonist	Hypertension	

Code	Name	Mechanism	Indication(s)
CFZ533	iscalimab	CD40 inhibitor	Sjögren's
			Hidradenitis suppurativa
DFV890	DFV890	NLRP3 inhibitor	Knee osteoarthritis
			Familial cold auto-inflammatory syndrome
LNA043	LNA043	ANGPTL3 agonist	Knee osteoarthritis
			Osteoarthritis (combos)
LOU064 remibrutinib	remibrutinib	nib BTK inhibitor	Food allergy
			Hidradenitis suppurativa
			Sjögren's
LRX712	LRX712	-	Osteoarthritis
MAS825	MAS825	-	NLRC4-GOF indications
MHV370	MHV370	TLR7, TLR8 Antagonist	Sjögren's
			Mixed connective tissue disease
NGI226	NGI226	-	Tendinopathy
QUC398	QUC398	ADAMTS5 inhibitor	Osteoarthritis
RHH646	RHH646	-	Osteoarthritis
VAY736	ianalumab	BAFF-R inhibitor	Autoimmune hepatitis
YTB323	rapcabtagene autoleucel	CD19 CAR-T	srSLE/LN

Others

Others			
Code	Name	Mechanism	Indication(s)
IB&GH			
KAE609	cipargamin	PfATP4 inhibitor	Malaria, severe
			Malaria, uncomplicated
KLU156	Ganaplacide + lumefantrine	Non-artemisinin plasmodium falciparum inhibitor	Malaria, uncomplicated
LXE408	LXE408	Proteasome inhibitor	Visceral leishmaniasis
QMF149	Atectura®	LABA + ICS	Asthma, pediatrics
SEG101	Adakveo®	P-selectin inhibitor	Sickle cell disease, pediatrics
Others			
CMK389	CMK389	IL-18 inhibitor	Pulmonary sarcoidosis
LNP023	iptacopan	CFB inhibitor	iAMD
LTP001	LTP001	SMURF1 inhibitor	Pulmonary arterial hypertension
			Idiopathic pulmonary fibrosis

1. DLX313 is the Novartis compound code for UCB0599.

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Lead indication

8 lead indications

Novartis pipeline in Phase 3

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)	
AAA6011	Lutathera®	Radioligand therapy target SSTR	Gastroenteropancreatic neuroendocrine tumors, 1st line in G2/3 tumors (GEP-NET 1L G3)	
JDQ443	opnurasib	KRAS inhibitor	2/3L Non-small cell lung cancer	
Hemato	logy			
ABL001	Scemblix®	BCR-ABL inhibitor	Chronic myeloid leukemia, 1st line	
ETB115	Promacta [®]	Thrombopoietin receptor (TPO-R) agonist	Radiation sickness syndrome	
LNP023	iptacopan	CFB inhibitor	Atypical hemolytic uraemic syndrome	
MBG453	sabatolimab	TIM3 antagonist	Myelodysplastic syndrome	
VAY736	ianalumab	BAFF-R inhibitor	1L Immune Thrombocytopenia	
			2L Immune Thrombocytopenia	
			warm Autoimmune Hemolytic Anemia	

TIM3 antagonist	Myelodysplastic syndrome				
BAFF-R inhibitor	1L Immune Thrombocytopenia	Immu	nology		
	2L Immune Thrombocytopenia	Code	Name	Mechanism	-
	warm Autoimmune Hemolytic Anemia	Coue	Name	wechanism	
	wann Autoinnindhe Fleinolytic Allenna	AIN457	Cosentyx®	IL17A inhibitor	
					ł
		IGE025	Xolair®	IgE inhibitor	t
Mechanism	Indication(s)	LOU064	remibrutinib	BTK inhibitor	1
CGRPR antagonist	Migraine, pediatrics				ľ
S1P1,5 receptor modulator	Multiple sclerosis, pediatrics				+
BTK inhibitor	Multiple sclerosis	QGE031	ligelizumab	IgE inhibitor	+
010 11	•	QGE031	iigeiizumab		
SMN1 gene replacement therapy	SMA IT administration	VAY736	ianalumab	BAFF-R inhibitor	
CD20 Antagonist	Multiple sclerosis, pediatrics				F

Cardio	ovascular		
Code	Name	Mechanism	Indication(s)
EXV811	atrasentan	ET _A receptor antagonist	IgA nephropathy
FUB523	zigakibart	Anti-APRIL	IgA nephropathy
KJX839	Leqvio®	siRNA (regulation of LDL-C)	CVRR-LDLC
			Primary prevention
			Hyperlipidemia, pediatrics
LNP023	iptacopan	CFB inhibitor	IgA nephropathy
			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))

Immunology				
Code	Name	Mechanism	Indication(s)	
AIN457	Cosentyx®	IL17A inhibitor	Giant cell arteritis	
			Polymyalgia rheumatica	
			Rotator cuff tendinopathy	
IGE025	Xolair®	IgE inhibitor	Food allergy	
LOU064	remibrutinib	BTK inhibitor	Chronic spontaneous urticaria	
			Chronic spontaneous urticaria, pediatrics	
			CINDU	
QGE031	ligelizumab	IgE inhibitor	Food allergy	
VAY736	ianalumab	BAFF-R inhibitor	Sjögren's	
			Lupus Nephritis	
			Systemic lupus erythematosus	

Others	Others				
Code	Name	Mechanism	Indication(s)		
IB&GH					
COA566	Coartem®	PGH-1 (artemisinin combination therapy)	Malaria, uncomplicated (<5kg patients)		
Others					
RTH258	Beovu®	VEGF Inhibitor	Diabetic retinopathy		

1. 177Lu-dotatate in US.

Neuroscience

AMG334 Aimovig®

BAF312 Mayzent®

LOU064 remibrutinib

OAV101 AVXS-101

OMB157 Kesimpta®

Name

Code

Company overview Financial review Conclusions Appendix	References	
Innovation: Pipeline overview Financial performance Innovation: Clinical trials	Abbreviations	

INNOVATION

Lead indication

1 lead indications

Novartis pipeline in registration

Oncology								
Code	Name	Mechanism	Indication(s)					
Solid to	umors							
LEE011	Kisqali®	CDK4/6 Inhibitor	HR+/HER2- BC (adj)					
Hemate	ology							
LNP023	iptacopan	CFB inhibitor	Paroxysmal nocturnal hemoglobinuria					

Immunology							
Code	Name	Mechanism	Indication(s)				
AIN457	Cosentyx®	IL17A inhibitor	Hidradenitis suppurativa ¹				
IGE025	Xolair®	IgE inhibitor	Auto-injector				

1. Approved in EU.



Company overview Financial review Conclusions Appendix References	
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INNOVATION

UNOVARTIS | Reimagining Medicine

Novartis submission schedule

New Molecular Entities: Lead and supplementary indications

				Cardiovascular	¥	Immunology	Reuro	science	Oncology	Non-core T	A project
	2023	2024	2025				≥2()26			
	iptacopan LNP023 PNH	atrasentan EXV811 IgAN	pelacarsen TQJ230 CVRR-Lp(a)	177Lu-NeoB AAA603 Multiple Solid Tumors	\bigcirc	iscalimab CFZ533 Sjögren's syndrome	¥	rapcabta YTB323 High-risk large	gene autoleucel B-cell lymphoma	XXB750 Hypertension	F
		opnurasib JDQ443 2/3L NSCLC (mono)		ianalumab VAY736 2L Immune Thrombocytopenia	\bigcirc	ligelizumab QGE031 Food allergy	¥	TNO155 Solid tumors	\bigcirc	zigakibart FUB523 IgAN	F
Lead		remibrutinib LOU064 CSU				LNA043 Knee osteoarthritis	¥				
		sabatolimab MBC453 HR-MDS									
				cipargamin KAE609 Malaria severe		ganaplacide/lum KLU156 Malaria uncomplicated	nefantrine	LXE408 Visceral leishm	naniasis		
		iptacopan LNP023 C3G		ianalumab VAY736 1L Immune Thrombocytopenia	\bigcirc	ianalumab VAY736 Lupus Nephritis	¥	Opnurasi JDQ443 NSCLC (comb	b	remibrutinib LOU064 CINDU	۲
ıtary		iptacopan LNP023 IgAN		ianalumab VAY736 wAIHA	\bigcirc	ianalumab VAY736 SLE	¥	rapcabta YTB323 Lupus Nephriti	gene autoleucel s	sabatolimab MBG453 Unfit AML	\bigcirc
Supplementary		Pluvicto® AAA617 mCRPC, Pre-taxane		ianalumab VAY736 AIH	¥	iptacopan LNP023 aHUS	\bigcirc	remibruti LOU064 Multiple sclero	(0)		
Supp		Pluvicto® AAA617 mHSPC		ianalumab VAY736 Sjögren's syndrome	¥	iptacopan LNP023 IC-MPGN	\bigcirc	remibruti LOU064 Sjögren's synd			
				cipargamin KAE609 Malaria uncomplicated							

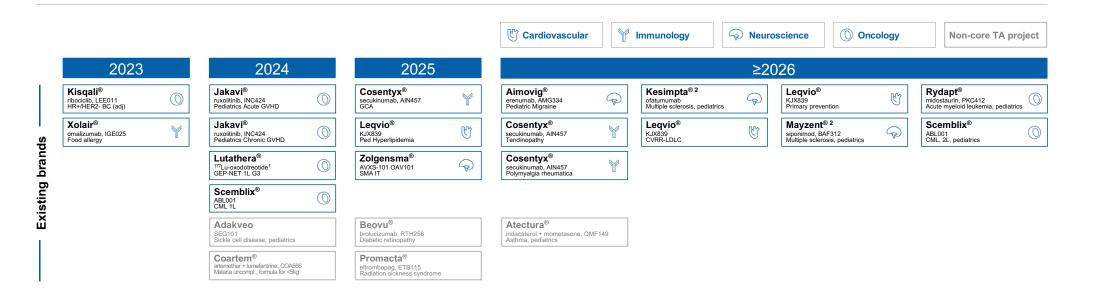
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INNOVATION

UNOVARTIS | Reimagining Medicine

Novartis submission schedule

Supplementary indications for existing brands



1. ¹⁷⁷Lu-dotatate in US. 2. Kesimpta and Mayzent: Pediatric trial in multiple sclerosis run in conjunction (NEOS).

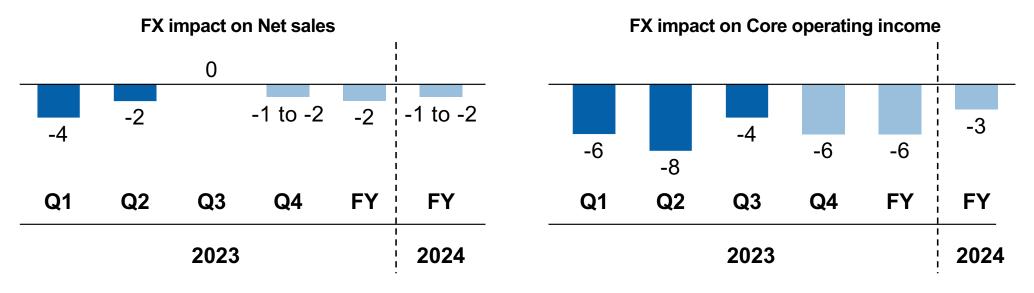
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FINANCIAL PROFILE

Expected currency impact for full year 2023 and 2024

Currency impact vs. PY

%pts, assuming late-October exchange rates prevail in 2023 and 2024



Actual Simulation

Company overview	Company overview Financial review Conc		Conclusions	Conclusions Apper		References	
Innovation: Pipeline overview		Financial p	performance		Innovation: Clinical trials	Abbreviations	

FINANCIAL PROFILE

UNOVARTIS | Reimagining Medicine

FY 2023 guidance on other financial KPIs

Barring unforeseen events; (in cc)

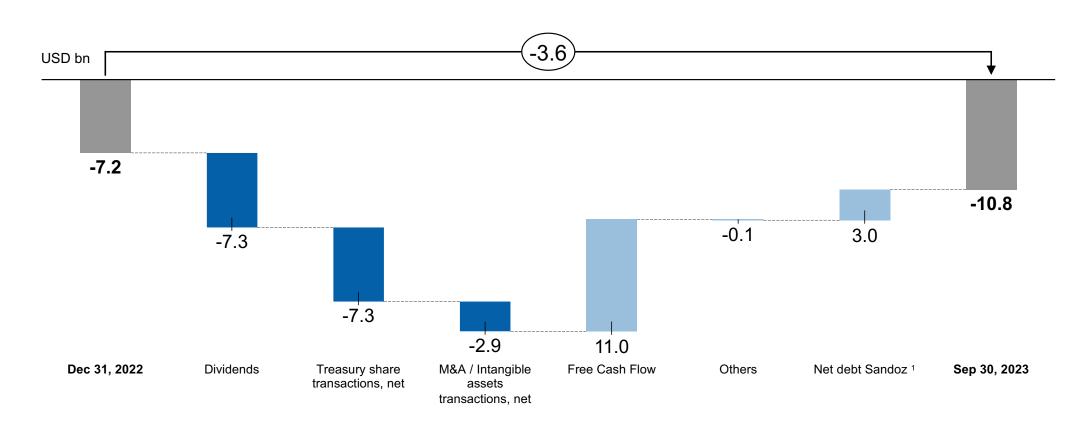
Continuing operations | Full year guidance

Core Net Financial Result	Expenses expected to be around 0.5bn
Core Tax Rate	 Expected to be in the 15-16% range Structurally lower tax rate vs. Novartis incl. Sandoz due to different geographic mix

Constant currencies (cc), core results are non-IFRS measures; explanation can be found on page 48 of Condensed Interim Financial Report.



Net debt increased by USD 3.6bn mainly due to dividends and share buybacks, partially offset by FCF



1. Reflects USD 0.6bn cash and USD 3.7bn of financial debts of Sandoz as of Sep 30, 2023. In addition, on Oct 2, 2023, through a series of intercompany transactions in connection with the distribution (spin-off) of the Sandoz business to Novartis AG shareholders, USD 38m was paid in cash from a Novartis affiliate to the Sandoz business. Including this transaction, Sandoz cash on Oct 2, 2023, amounted to USD 0.7bn.

UNOVARTIS | Reimagining Medicine

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Innovation: Pipeline overview		Financial performance			Innovation: Clinical trials		Abbreviations			
Cardiovascular		Immunology		Neurosc		science Oncology			Other	

VOVARTIS | Reimagining Medicine

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

Company overview	Financial review		Conclusions		Appendix	References	f
Innovation: Pipeline overviev		Financial performance		Innovation: Clinical trials		Abbreviations	
Cardiovascular		Immunology	Neuros	science Oncology		Other	

Cardiovascular



Company overview	Fi	nancial review	Conclusions		Appendix		References	
Innovation: Pipeline overvie	W	Financial pe	inancial performance In		Innovation: Clinical trials		Abbreviations	
Cardiovascular		Immunology	Neuros	cience	Oncology		Other	

iptacopan - CFB inhibitor

iptacopan - CFB inhibitor

NCT04578834 APPLAUSE-IgAN (CLNP023A2301)

NCT04578834	APPLAUSE-IgAN (CLNP023A2301)	NCT05755386 APPARENT (CLNP023B12302)			
Indication	IgA nephropathy	Indication	Immune complex-mediated membranoproliferative glomerulonephritis		
Phase	Phase 3	Phase	Phase 3		
Patients	450	Patients	68		
Primary Outcome	Ratio to baseline in urine protein to creatinine ratio (sampled from 24h urine collection) at 9 months	Primary Outcome	Log-transformed ratio to baseline in UPCR (sampled from a 24-hour urine collection) at 6 months. [Time Frame: 6 months (double-blind)]		
Measures	Annualized total estimated Glomerular Filtration Rate (eGFR) slope estimated over 24 months	Measures	To demonstrate the superiority of iptacopan compared to placebo in reducing proteinuria at 6 months. Log-transformed ratio to baseline in UPCR at the 12-month visit (both study		
Arms Intervention	Arm 1 - LNP023 200mg BID Arm 2 - Placebo BID	-	treatment arms) [Time Frame: 12 months] To evaluate the effect of iptacopan on proteinuria at 12 months. Log-transformed ratio to 6-month visit in UPCR at the 12-month visit in the		
Target Patients	Primary IgA Nephropathy patients		placebo arm. [Time Frame: 12 months] To evaluate the effect of iptacopan on proteinuria at 12 months.		
Readout Milestone(s)	2023 (primary endpoint for US initial submission, 9 months UPCR) 2025 (24 months)	Arms Intervention	Arm 1 experimental: Drug: iptacopan 200 mg b.i.d. (Adults 200mg b.i.d; Adolescents 2x 100mg b.i.d)		
Publication	TBD		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	2026		

Milestone(s)

Publication

TBD

Company overview	Fir	nancial review	Conclusions			Appendix	References	f
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Cardiovascular		Immunology	Neuros	cience		Oncology	Other	

iptacopan - CFB inhibitor

iptacopan - 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

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

UNOVARTIS | Reimagining Medicine

Company overview	Fii	nancial review	Conclusions		Appendix	References	
Innovation: Pipeline overview	: Pipeline overview Financial performance Innovation: Clinical trials		Abbreviations				
Cardiovascular		Immunology	Neuroscience		Oncology	Other	

Leqvio[®] - siRNA (regulation of LDL-C)

NCT03705234 ORION-4 (CKJX839B12301)

Indication	Hypercholesterolemia inc. Heterozygous Familial Hypercholesterolaemia (HeFH
Phase	Phase 3
Patients	15000
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 bysubcutaneous 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

Company overview	Fi	nancial review	Conclusions			Appendix		References	f
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Cardiovascular		Immunology	Neuroscience		Oncology			Other	

Leqvio[®] - siRNA (regulation of LDL-C)

Leqvio[®] - siRNA (regulation of LDL-C)

UNOVARTIS | Reimagining Medicine

NCT04652726 ORION-16 (CKJX839C12301)

NCT04652726	ORION-16 (CKJX839C12301)	NCT0465986	3 ORION-13 (CKJX839C12302)
Indication	Hyperlipidemia, pediatrics	Indication	Hyperlipidemia, pediatrics
Phase	Phase 3	Phase	Phase 3
Patients	141	Patients	13
Primary Outcome Measures	Percentage (%) change in low-density lipoprotein cholesterol (LDL-C) from baseline to Day 330	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	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.		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)	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	Readout Milestone(s)	2025
Publication	TBD	Publication	TBD

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Cardiovascular		Immunology	Neuros	cience		Oncology	Other	

Leqvio[®] - siRNA (regulation of LDL-C)

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	16500
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

NCT05739383 VICTORION-1P (CKJX839D12302)

CVRR (Primary prevention)
Phase 3
14000
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
Arm 1 Experimental: Inclisiran Sodium 300mg, subcutaneous injection in pre-filled syringe Arm 2 Placebo
High-risk primary prevention patients
2029
TBD

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Cardiovascular		Immunology	Neuros	cience	Oncology	Other	

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 $Lp(a) \ge 70 \text{ mg/dL}$
Readout Milestone(s)	2025
Publication	TBD



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Cardiovascular		Immunology	Neuros	cience	Oncology		Other

XXB750 - NPR1 agonist

NCT05562934 (CXXB750B12201)

Indication	Hypertension					
Phase	Phase 2b					
Patients	170					
Primary Outcome	Change from baseline in mean 24hr ambulatory systolic blood pressure at week 12					
Measures						
Arms	Arm 1 experimental: Dose 1					
Intervention	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					



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Immunology



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Cardiovascular		Immunology	Neuros	cience	Oncology		Other	

Cosentyx[®] - IL-17A inhibitor

Cosentyx[®] - IL-17A inhibitor

NCT05767034 REPLENISH (CAIN457C22301)

NCT05767034	REPLENISH (CAIN457C22301)	NCT04930094	GCAPTAIN (CAIN457R12301)
Indication	Polymyalgia rheumatica	Indication	Giant cell arteritis
Phase	Phase 3	Phase	Phase 3
Patients	360	Patients	348
Primary Outcome Measures	Proportion of participants achieving sustained remission	Primary Outcome Measures	Number of participants with sustained remission
Arms Intervention	Arm 1 Experimental: Secukinumab 300 mg, randomized in 1:1:1 ratio every 4 weeks	Arms Intervention	Experimental: Secukinumab 300 mg Placebo Comparator: Placebo
	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	Patients with Giant Cell Arteritis (GCA)
Target Patients	Adult patients with PMR who have recently relapsed	Readout Milestone(s)	Primary 2025 Final 2026
Readout Milestone(s)	2025	Publication	TBD
Publication	TBD	-	

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Cardiovascular		Immunology	Neuro	science		Oncology		Other	

Cosentyx[®] - IL-17A inhibitor

Cosentyx[®] - IL-17A inhibitor

NCT05722522 (CAIN457O12301)

2 (CAIN457012301)	NCT05758415	(CAIN457O12302)
Rotator cuff tendinopathy	Indication	Rotator cuff tendinopathy
Phase 3	Phase	Phase 3
234	Patients	234
Change from BSL in in the Western Ontario Rotator Cuff Index (WORC) Physical Symptom Domain (PSD) score [Time Frame: At Week 16]: - Improving physical shoulder symptoms in participants with moderate to severe RCT at Week 16	Primary Outcome Measures	Change from BSL in in the Western Ontario Rotator Cuff Index (WORC) Physical Symptom Domain (PSD) score [Time Frame: At Week 16]: - Change in physical shoulder symptoms in participants with moderate to severe RCT at Week 16
Arm 1: Secukinumab 2 X 150 mg / 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio	Arms Intervention	Arm 1 experimental: Secukinumab 2 X 150 mg / 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio
Arm 2: Placebo 2X 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio		Arm 2 placebo: 2 X 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio
Patients with moderate-severe Rotator Cuff Tendinopathy	Target Patients	Patients with moderate-severe Rotator Cuff Tendinopathy
2025	Readout Milestone(s)	2025
TBD	Publication	TBD
	Rotator cuff tendinopathy Phase 3 234 Change from BSL in in the Western Ontario Rotator Cuff Index (WORC) Physical Symptom Domain (PSD) score [Time Frame: At Week 16]: Improving physical shoulder symptoms in participants with moderate to severe RCT at Week 16 Arm 1: Secukinumab 2 X 150 mg / 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio Arm 2: Placebo 2X 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratio Patients with moderate-severe Rotator Cuff Tendinopathy 2025	Rotator cuff tendinopathyIndicationPhase 3Phase234PatientsChange from BSL in in the Western Ontario Rotator Cuff Index (WORC) Physical Symptom Domain (PSD) score [Time Frame: At Week 16]: - Improving physical shoulder symptoms in participants with moderate to severe RCT at Week 16Primary Outcome MeasuresArm 1: Secukinumab 2 X 150 mg / 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratioArms InterventionArm 2: Placebo 2X 1 mL, subcutaneous (s.c.) injection, randomized in a 1:1 ratioTarget PatientsPatients with moderate-severe Rotator Cuff TendinopathyTarget Patients2025Readout Milestone(s)

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Cardiovascular		Immunology	Neuroscience			Oncology		Other	

ianalumab - BAFF-R inhibitor

NCT05126277 SIRIUS-LN (CVAY736K12301)

NCT03217422 AMBER (CVAY736B2201)

Indication	Autoimmune hepatitis	Indication	Lupus Nephritis
Phase	Phase 2	Phase	Phase 3
Patients	68	Patients	420
Primary Outcome Measures	Alanine aminotransferase (ALT) normalization	Primary Outcome Measures	Frequency and percentage of participants achieving complete renal response (CRR) [Time Frame: week 72]
Arms Intervention	VAY736 Placebo control with conversion to active VAY736	Arms Intervention	Arm 1: Experimental - ianalumab s.c. q4w in addition to standard of care (SoC) Arm 2: Experiemental - ianalumab s.c. q12w in addition to SoC
Target	Autoimmune hepatitis patients with incomplete response or intolerant to		Arm 3: Placebo comparator - Placebo s.c. q4w in addition to SoC
Patients	standard treatment of care	Target	Patients with active Lupus Nephritis
Readout Milestone(s)		Patients Readout	Primary 2027
Publication	TBD	Milestone(s)	
		Publication	TBD

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Cardiovascular		Immunology	Neuroscience			Oncology		Other	

ianalumab - BAFF-R inhibitor

NCT05349214 NEPTUNUS-2 (CVAY736A2302)

Indication	Sjögren's syndrome	Indication	Sjögren's syndrome
Phase	Phase 3	Phase	Phase 3
Patients	489	Patients	268
Primary Outcome Measures	Change from baseline in EULAR Sjögren Syndrome Disease Activity Index (ESSDAI) score at Week 48 as compared to placebo	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	Arms Intervention	Arm 1: Experimental - ianalumab Arm 2: Placebo comparator
	Arm 3: Placebo comparator	Target	Patients with active Sjogren's syndrome
Target Patients	Patients with active Sjogren's syndrome	Patients	
Readout	Primary 2026	_ Readout Milestone(s)	Primary 2026
Milestone(s)		Publication	TBD
Publication	TBD		

NCT05350072 NEPTUNUS-1 (CVAY736A2301)

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Cardiovascular		Immunology	Neuros	cience		Oncology		Other	

ianalumab - BAFF-R inhibitor

NCT05639114 SIRIUS-SLE 1 (CVAY736F12301)

NCT05639114	SIRIUS-SLE 1 (CVAY736F12301)	NCT05624749	SIRIUS-SLE 2 (CVAY736F12302)
Indication	Systemic lupus erythematosus	Indication	Systemic lupus erythematosus
Phase	Phase 3	Phase	Phase 3
Patients	406	Patients	280
Primary Outcome Measures	Proportion of participants on monthly ianalumab achieving Systemic Lupus Erythematosus Responder Index -4 (SRI-4) [Time Frame: Week 60]	Primary Outcome Measures	Proportion of participants achieving Systemic Lupus Erythematosus Responder Index -4 (SRI-4) [Time Frame: Week 60]
Arms Intervention	Experimental: lanalumab s.c. monthly Experimental: lanalumab s.c. quarterly	Arms Intervention	Experimental: ianalumab s.c. monthly Placebo Comparator: placebo s.c. monthly
	Placebo Comparator: Placebo s.c. monthly	Target	Patients with active systemic lupus erythematosus (SLE)
Target	Patients with active systemic lupus erythematosus (SLE)	Patients	
Patients		Patients 280 mab achieving Systemic Lupus Primary Proportion of participants achie [Time Frame: Week 60] Primary Proportion of participants achie Measures Index -4 (SRI-4) [Time Frame: Measures Arms Experimental: ianalumab s.c. m Intervention Placebo Comparator: placebo s Target Patients Patients 2027	2027
Readout	2027	Milestone(s)	
Milestone(s)		Systemic Lupus Primary Proportion of participants achieving Systemic Lupus Erythe Week 60] Measures Index -4 (SRI-4) [Time Frame: Week 60] Arms Experimental: ianalumab s.c. monthly Intervention Placebo Comparator: placebo s.c. monthly Target Patients Patients 2027	TBD
Publication	TBD		

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Cardiovascular		Immunology	Neuros	cience	Oncology	Other	

ligelizumab - IgE Inhibitor

NCT04984876 (CQGE031G12301)

Indication	Food allergy				
Phase	Phase 3				
Patients	211				
Primary Outcome Measures	 Proportion of participants who can tolerate a single dose of ≥ 600 mg (1044 mg cumulative tolerated dose) of peanut protein without dose-limiting symptoms at Week 12 				
Arms Intervention	Arm 1: ligelizumab 240 mg subcutaneous injection for 52 weeks Arm 2: ligelizumab 120 mg subcutaneous injection for 52 weeks				
	Arm 3: Placebo subcutaneous injection for first 8 weeks and ligelizumab 120 mg subcutaneous injection for 44 weeks				
	Arm 4: Placebo 16 weeks and ligelizumab 120 mg/240 mg subcutaneous injection for 36 weeks				
	Arm 5: Placebo subcutaneous injection for first 8 weeks and ligelizumab 240 mg subcutaneous injection for 44 weeks				
Target Patients	Participants with a medically confirmed diagnosis of IgE-mediated peanut allergy				
Readout Milestone(s)	2023				
Publication	TBD				

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Cardiovascular		Immunology	Neuros	cience	Oncology	Othe	r

LNA043 - ANGPTL3 agonist

NCT04864392 ONWARDS (CLNA043A12202)

Indication	Knee osteoarthritis				
Phase	Phase 2				
Patients	550				
Primary Outcome Measures	Change from baseline in the cartilage thickness of the medial compartment of the knee as assessed by imaging				
Arms	LNA043 injection to the knee with dosing regimen A				
Intervention	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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Cardiovascular		Immunology	Neuros	science	Oncology	Other		

remibrutinib - BTK inhibitor

remibrutinib - BTK inhibitor

NCT05030311 REMIX-1 (CLOU064A2301)

Chronic spontaneous urticaria
Phase 3
470
Change from baseline in UAS7 (Scenario 1 with UAS7 as primary efficacy endpoint)
Arm 1: LOU064 (blinded) LOU064 (blinded) taken orally for 24 weeks, followed by LOU064 (open-label) taken orally open label for 28 weeks. Randomized in a 2:1 ratio (arm 1:arm 2) 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)
Adult Chronic Spontaneous Urticaria (CSU) patients inadequately controlled by H1-antihistamines
2024 (Final)

NCT05032157 REMIX-2 (CLOU064A2302)

Indication	Chronic spontaneous urticaria
Phase	Phase 3
Patients	455
Primary Outcome Measures	 Change from baseline in UAS7 (Scenario 1 with UAS7 as primary efficacy endpoint) 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)	2024 (Final)
Publication	TBD

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Cardiovascular		Immunology	Neuros	cience	Oncology	Other	

remibrutinib - BTK inhibitor

NCT05030311 REMIX-1 (CLOU064A2301)

Indication	Chronic inducible urticaria
Phase	Phase 3
Patients	348
Primary Outcome Measures	 Proportion of participants with complete response in Total Fric Score; symptomatic dermographism [Time Frame: Week 12] Proportion of participants with complete response in critical temperature threshold; cold urticaria [Time Frame: Week 12] Proportion of participants with itch numerical rating scale =0; cholinergic urticaria [Time Frame: Week 12]
Arms Intervention	All arms oral, twice daily: Arm 1 Experimental Remibrutinib, symptomatic dermographism group Arm 2 Placebo symptomatic dermographism group Arm 3 Experimental Remibrutinib, cold urticaria group Arm 4 Placebo cold urticaria group Arm 5 Experimental Remibrutinib, cholinergic urticaria group Arm 6 Placebo cholinergic urticaria group
Target Patients	Adults suffering from CINDU inadequately controlled by H1-antihistamines
Readout Milestone(s)	2026
Publication	TBD

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Neuroscience

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Cardiovascular		Immunology	Neuros	cience	Oncology	Other	

Mayzent[®] - S1P1,5 receptor modulator

NCT04926818 NEOS (CBAF312D2301)

Indication	Multiple sclerosis, pediatrics
Phase	Phase 3
Patients	180
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)	2026
Publication	TBD

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Cardiovascular		Immunology Neuros		cience Oncology		Other		

remibrutinib - BTK inhibitor

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

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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Cardiovascular		Immunology Neu		science Oncology			Other	

Zolgensma[®] - SMN1 gene replacement therapy

Zolgensma[®] - SMN1 gene replacement therapy

NCT05089656 STEER (COAV101B12301)

Indication	Spinal muscular atrophy (IT administration)	Indication	Spinal muscul
Phase	Phase 3	Phase	Phase 3B
Patients	125	Patients	28
Primary Outcome Measures	1. Change from baseline in Hammersmith functional motor scale - Expanded (HFMSE) 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	Primary Outcome Measures	Number and p AESIs [Time
Arms Intervention	Arm 1: Experimental OAV101. Administered as a single, one-time intrathecal dose	Arms Intervention	Experimental: Single intrathe
	Arm 2: Sham Comparator: Sham control. A skin prick in the lumbar region without any medication.	Target	genomes Participants w
Target	Patients Type 2 Spinal Muscular Atrophy (SMA) who are \geq 2 to < 18 years of	Patients	Risdiplam (ST
Patients Readout	age, treatment naive, sitting, and never ambulatory 2024	₋ Readout Milestone(s)	2024
Milestone(s)		Publication	TBD
Publication	TBD		

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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Oncology



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Cardiovascular		Immunology	nology Neuros		science Oncology		Other	

ianalumab - BAFF-R inhibitor

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: lanalumab Lower dose administered intravenously with corticosteroids oral or parentally (if clinically justified)
	Arm 2: lanalumab 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)	2025
Publication	TBD

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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Cardiovascular		Immunology	Neuros	cience	Oncology	Other	

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 Comparatorn (intravenously)
Target Patients	Previously treated patients with warm Autoimmune Hemolytic Anemia
Readout Milestone(s)	2026
Publication	TBD



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Cardiovascular		Immunology	Neuros	cience	Oncology	Other	

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)	2025
Publication	TBD



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Cardiovascular		Immunology	Neuros	cience	Oncology	Other	

Jakavi[®] - JAK1/2 inhibitor

Jakavi[®] - JAK1/2 inhibitor

NCT03774082 REACH5 (CINC424G12201)

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NCT03491215 REACH4 (CINC424F12201)

Indication	Acute graft versus host disease	Indication	Chronic graft versus host disease
Phase	Phase 2	Phase	Phase 2
Patients	45	Patients	45
Primary Outcome	Measurement of PK parameters	Primary Outcome	Overall Response Rate (ORR)
Measures	Overall Response Rate (ORR)	Measures	
Arms Intervention	Ruxolitinib	Arms Intervention	Ruxolitinib 5mg tablets / pediatric formulation
Target Patients	Pediatric patients with grade II-IV acute graft vs. host disease after allogeneic hematopoietic stem cell transplantation	Target Patients	Pediatric subjects with moderate and severe chronic Graft vs. Host disease after allogeneic stem cell transplantation
Readout Milestone(s)	2023	Readout Milestone(s)	2023
Publication	TBD	Publication	TBD

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opnurasib - KRAS inhibitor

NCT05132075 KontRASt-02 (CJDQ443B12301)

Indication	Non-small cell lung cancer, 2/3L
Phase	Phase 3
Patients	360
Primary Outcome Measures	Progression free survival (PFS)
Arms Intervention	Arm 1 Experimental: JDQ443 Arm 2 Active Comparator: Participant will be treated with docetaxel following local guidelines as per standard of care and product labels
Target Patients	Patients with advanced non-small cell lung cancer (NSCLC) harboring a KRAS G12C mutation who have been previously treated with a platinum-based chemotherapy and immune checkpoint inhibitor therapy either in sequence or in combination.
Readout Milestone(s)	2024
Publication	NA



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Pluvicto[®] - Radioligand therapy target PSMA

$\mathbf{Pluvicto}^{\texttt{®}}$ - Radioligand therapy target \mathbf{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	H2 2023

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: 2024
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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Cardiovascular		Immunology	Neuros	Neuroscience Oncology			Other		

sabatolimab - TIM3 antagonist

sabatolimab - TIM3 antagonist

NCT04150029 STIMULUS-AML1 (CMBG453C12201)

Phase 2

86

Unfit acute myeloid leukaemia

Indication

Phase

Patients

	Indication	Myelodysplastic syndrome					
	Phase	Phase 3					
	Patients	500					
-in patients only) nission (CR)	Primary Outcome Measures	Overall survival					
limab in combination with	Arms Intervention	Sabatolimab 800 mg + azacitidine 75 mg/m2 Sabatolimab 800 mg + azacitidine 75 mg/m2 + placebo					

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NCT04266301 STIMULUS-MDS2 (CMBG453B12301)

Primary Outcome Measures	Incidence of dose limiting toxicities (Safety run-in patients only) Percentage of subjects achieving complete remission (CR)	Primary Outcome Measures	Overall survival
Arms Intervention	Single arm safety and efficacy study of sabatolimab in combination with azacitidine and venetoclax	Arms Intervention	Sabatolimab 800 mg + azacitidine 75 mg/m2 Sabatolimab 800 mg + azacitidine 75 mg/m2 + placebo
Target Patients	Newly diagnosed adult AML patients who are not suitable for treatment with intensive chemotherapy	Target Patients	Patients with intermediate, high or very high risk Myelodysplastic Syndrome (MDS) as Per IPSS-R, or Chronic Myelomonocytic Leukemia-2 (CMML-2)
Readout Milestone(s)	2023	Readout Milestone(s)	2024
Publication	TBD	Publication	TBD

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Cardiovascular		Immunology	Neuros	cience	ce Oncology		

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
Publication	TBD

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Cardiovascular		Immunology	Neuros	cience	Oncology		Other	

TNO155 - SHP2 inhibitor

NCT03114319 (CTNO155X2101)

Indication	Solid tumors (single agent)
Phase	Phase 1
Patients	255
Primary Outcome Measures	Number of participants with adverse events Number of participants with dose limiting toxicities
Arms Intervention	Drug: TNO155 Drug: TNO155 in combination with EGF816 (nazartinib)
Target Patients	Adult patients with advanced solid tumors in selected indications
Readout Milestone(s)	2024
Publication	TBD

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Cardiovascular		Immunology	Neuros	science Oncology			Other	
Ophthalmology					Globa	l Health		

Other

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Cardiovascular		Immunology	Neuros	roscience Oncology			Other	
Ophthalmology					Globa	l Health		

Ophthalmology



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Cardiovascular		Immunology	Neuros	cience	sience Oncology		Other
Ophthalmology					Globa	l Health	

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	TBD



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Cardiovascular Immunol		Immunology	Neuroscience		Oncology	Other	
Ophthalmology				Global Health			

Global Health

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Cardiovascular	Cardiovascular Immunology		Neuroscience Oncology		Other		
Ophthalmology					Global	Health	

Adakveo[®] - P-selectin inhibitor

NCT03474965 SOLACE-Kids (CSEG101B2201)

Indication	Sickle cell disease, pediatrics
Phase	Phase 2
Patients	100
Primary Outcome Measures	PK/PD and safety of SEG101 at 5 mg/kg
Arms Intervention	SEG101 (crizanlizumab) at a dose of 5 mg/kg by IV infusion ± Hydroxyurea/Hydroxycarbamide
Target Patients	Pediatric SCD patients with VOC
Readout Milestone(s)	H2-2021 (pediatric patients ≥12 year old) 2024 (pediatric patients <12 year old)
Publication	 Matthew M. Heeney, David C. Rees, Mariane de Montalembert, Isaac Odame, R. Clark Brown, Yasser Wali, Thu Thuy Nguyen, Du Lam, Raquel Merino Herranz, Julie Kanter; Study Design and Initial Baseline Characteristics in Solace- Kids: Crizanlizumab in Pediatric Patients with Sickle Cell Disease. Blood 2020; 136 (Supplement 1): 22–24. doi: https://doi.org/10.1182/blood-2020-137081
	 Matthew M. Heeney, David C. Rees, Mariane De Montalembert, Isaac Odame, R. Clark Clark Brown, Yasser Wali, Thu Thuy Nguyen, Du Lam, Nadege Pfender, Julie Kanter; Initial Safety and Efficacy Results from the Phase II, Multicenter, Open-Label Solace-Kids Trial of Crizanlizumab in Adolescents with Sickle Cell Disease (SCD). Blood 2021; 138 (Supplement 1): 12. doi: https://doi.org/10.1182/blood-2021-144730



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Ophthalmology					Global	Health	

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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Cardiovascular		Immunology Neuros		oscience Oncology		Other	
Ophthalmology					Global	Health	

Coartem[®] - PGH-1 (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)	2024
Publication	TBD



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Ophthalmology					Global	l Health	

ganaplacide - Non-artemisinin plasmodium falciparum inhibitor

NCT04546633 KALUMI (CKAF156A2203)

Indication	Malaria, uncomplicated
Phase	Phase 2
Patients	292
Primary Outcome Measures	PCR-corrected and uncorrected Adequate Clinical and Parasitological Response (ACPR)
Arms Intervention	KAF156 and LUM-SDF QD (once daily) for 2 days in fasted condition KAF156 and LUM-SDF QD (once daily) for 2 days in fed condition
Target Patients	Malaria patients 6 months to < 18 years old
Readout Milestone(s)	2024
Publication	TBD



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Abbreviations

AI	Auto-injector	IgAN
AIH	Autoimmune hepatitis	IPF
aHUS	atypical Hemolytic Uremic Syndrome	ITP
ALL	Acute lymphoblastic leukemia	LBCL
ALS	Amyotrophic lateral sclerosis	LN
AML	Acute myeloid leukemia	mCRPC
BC	Breast cancer	MDS
C3G	C3 glomerulopathy	mHSPC
CART	Chimeric androgen receptor T	mPDAC
CLL	Chronic lymphocytic leukemia	MS
CML	Chronic myeloid leukemia	NASH
CRC	Colorectal cancer	nmCRPC
COPD	Chronic obstructive pulmonary disease	NPR1
COSP	Chronic ocular surface pain	nr-axSpA
CSU	Chronic spontaneous urticaria	NSAI
CVRR-Lp(a)	Secondary prevention of cardiovascular events in patients with elevated levels of lipoprotein (a)	NSCLC
CVRR-LDLC	Secondary prevention of cardiovascular events in patients with elevated levels of LDLC	OS
DME	Diabetic macular edema	PFS
DLBCL	Diffuse large B-cell lymphoma refractory	PNH
ESCC	Esophageal squamous-cell carcinoma	PsA
FL	Follicular lymphoma	rHR
GCA	Giant cell arteritis	rMS
GVHD	Graft-versus-host disease	rPFS
GRPR	Gastrin releasing peptide receptor	SLE
HCC	Hepatocellular carcinoma	SMA Type 1
HD	Huntington's disease	SMA Type 2/
HR LBCL	High risk large B-cell lymphoma	SpA
IA	Interim analysis	T1DM
iAMD	Intermediate age-related macular degeneration	wAIHA
IC-MPGN	Immune complex membranoproliferative glomerulonephritis	

IgAN	IgA nephropathy
IPF	Idiopathic pulmonary fibrosis
ITP	Immune thrombocytopenia
LBCL	Large B-cell lymphoma
LN	Lupus nephritis
mCRPC	Metastatic castration-resistant prostate cancer
MDS	Myelodysplastic syndrome
mHSPC	Metastatic hormone sensitive prostate cancer
mPDAC	Metastatic pancreatic ductal adenocarcinoma
MS	Multiple sclerosis
NASH	Non-alcoholic steatohepatitis
nmCRPC	Non-metastatic castration-resistant prostate cancer
NPR1	Natriuretic peptide receptor 1
nr-axSpA	Non-radiographic axial spondyloarthritis
NSAI	Non-steroidal aromatase inhibitor
NSCLC	Non-small cell lung cancer
OS	Overall survival
PFS	Prefilled syringe
PNH	Paroxysmal nocturnal haemoglobinuria
PsA	Psoriatic arthritis
rHR	Resistant hypertension
rMS	Relapsing multiple sclerosis
rPFS	Radiographic progression free survival
SLE	Systemic lupus erythematosus
SMA Type 1	Spinal muscular atrophy (IV formulation)
SMA Type 2/3	Spinal muscular atrophy (IT formulation)
SpA	Spondyloarthritis
T1DM	Type 1 Diabetes mellitus
WAIHA	Warm autoimmune hemolytic anemia

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References

Entresto®

1 IQVIA National Prescription Audit.

2 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.

3 AHA/ACC/HFSA/ESC.

4 Extension of regulatory data protection to November 2026 in EU based on approval of pediatric indication.

5 For forecasting purposes, we assume no generic entry before 2025.

Kesimpta[®]

1 Sept. 2023 numbers are estimated using weekly data through September 22, 2023, IQVIA NPA (Kesimpta®) and IQVIA NPA adjusted by NSP (all others). B-cell therapies as portion of MS market in NBRx.

2 Data on file.

3 The initial dosing period consists of 20 mg subcutaneous doses at Weeks 0, 1 and 2, thereafter once a month. Patient must take pen out of the refrigerator 15-30 minutes before self-administering.

4 Efficacy outcomes as measured by disability progression and brain volume change.

5 Cohen et al, Poster presented at American Academy of Neurology, Boston, 22-27 April 23.

6 Cohen et al, oral presentation at American Academy of Neurology, Boston, 22-27 April 23.

