

## Further Facts & Figures

October 2023



Inspired by **patients**.  
Driven by **science**.



# Disclaimer & safe harbor

This presentation contains forward-looking statements, including, without limitation, statements containing the words “believes”, “anticipates”, “expects”, “intends”, “plans”, “seeks”, “estimates”, “may”, “will”, “continue” and similar expressions. These forward-looking statements are based on current plans, estimates and beliefs of management. All statements, other than statements of historical facts, are statements that could be deemed forward-looking statements, including estimates of revenues, operating margins, capital expenditures, cash, other financial information, expected legal, arbitration, political, regulatory or clinical results or practices and other such estimates and results. By their nature, such forward-looking statements are not guarantees of future performance and are subject to known and unknown risks, uncertainties, and assumptions which might cause the actual results, financial condition, performance or achievements of UCB, or industry results, to be materially different from any future results, performance, or achievements expressed or implied by such forward-looking statements contained in this presentation.

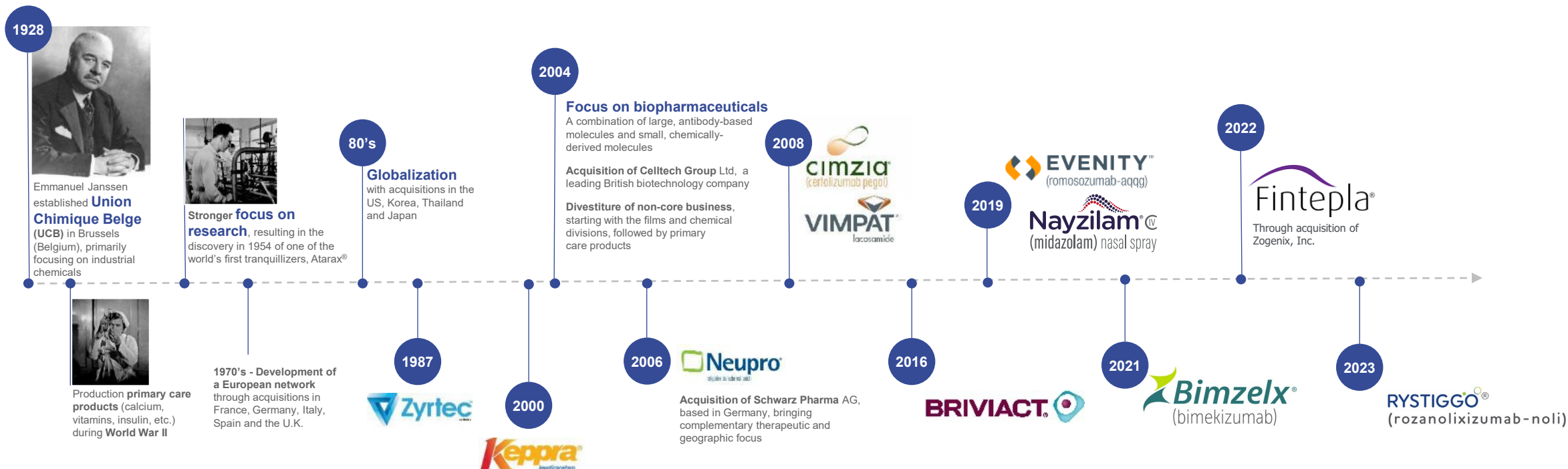
Important factors that could result in such differences include but are not limited to: the global spread and impact of pandemics (such as COVID-19), wars on territories where UCB has businesses, changes in general economic, business and competitive conditions, the inability to obtain necessary regulatory approvals or to obtain them on acceptable terms or within expected timing, costs associated with research and development, changes in the prospects for products in the pipeline or under development by UCB, effects of future judicial decisions or governmental investigations, safety, quality, data integrity or manufacturing issues; potential or actual data security and data privacy breaches, or disruptions of our information technology systems, product liability claims, challenges to patent protection for products or product candidates, competition from other products including biosimilars, changes in laws or regulations, exchange rate fluctuations, changes or uncertainties in tax laws or the administration of such laws, and hiring and retention of its employees. There is no guarantee that new product candidates will be discovered or identified in the pipeline, or that new indications for existing products will be developed and approved. Movement from concept to commercial product is uncertain; preclinical results do not guarantee safety and efficacy of product candidates in humans. So far, the complexity of the human body cannot be reproduced in computer models, cell culture systems or animal models. The length of the timing to complete clinical trials and to get regulatory approval for product marketing has varied in the past and UCB expects similar unpredictability going forward. Products or potential products which are the subject of partnerships, joint ventures or licensing collaborations may be subject to disputes between the partners or may prove to be not as safe, effective or commercially successful as UCB may have believed at the start of such partnership. UCB’s efforts to acquire other products or companies and to integrate the operations of such acquired companies may not be as successful as UCB may have believed at the moment of acquisition. Also, UCB or others could discover safety, side effects or manufacturing problems with its products and/or devices after they are marketed. The discovery of significant problems with a product similar to one of UCB’s products that implicate an entire class of products may have a material adverse effect on sales of the entire class of affected products. Moreover, sales may be impacted by international and domestic trends toward managed care and health care cost containment, including pricing pressure, political and public scrutiny, customer and prescriber patterns or practices, and the reimbursement policies imposed by third-party payers as well as legislation affecting biopharmaceutical pricing and reimbursement activities and outcomes. Finally, a breakdown, cyberattack or information security breach could compromise the confidentiality, integrity and availability of UCB’s data and systems. Given these uncertainties, the public is cautioned not to place any undue reliance on such forward-looking statements. These forward-looking statements are made only as of the date of this presentation, and do not reflect any potential impacts from the evolving COVID-19 pandemic, unless indicated otherwise. The company continues to follow the development diligently to assess the financial significance of this pandemic to UCB.

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In the event of any differences between this Presentation and the Annual or Half Year Report, the information included in the Report shall prevail.

# UCB Story – Since 1928

Continuous adaptation to the changing ecosystem

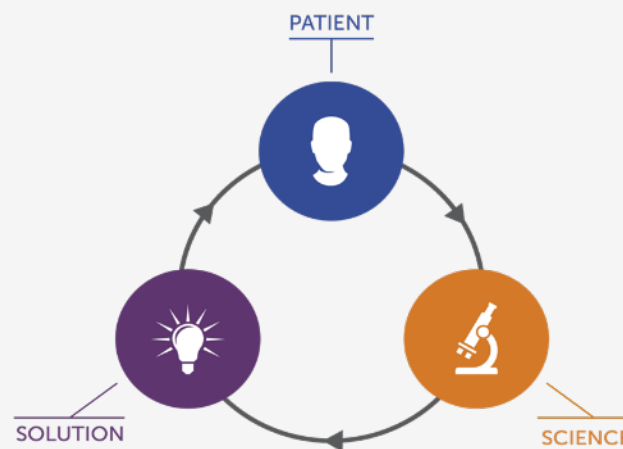


# UCB's Patient Value Strategy

Sustained company growth – superior shareholder value

Our ambition is to be the **patient-preferred** biopharma leader, creating patient value for **specific populations through unique outcomes**, the best experience and improving as many of these lives as possible.

We want to be present and impact specific patient populations by 2025.



## We are UCB

We are **8 700\*** employees  
creating value for patients



We bring CIMZIA®, VIMPAT®, KEPPRA®, BRIVIACT®, NEUPRO®, NAYZILAM®, EVENITY® & BIMZELX® to **over 3.4 million patients\***



Focused on R&D:  
We invest **30%\* of revenue in R&D** – above industry average







We commit to **reducing our ecological footprint**



We reached in 2022  
**€ 5.5 billion revenue** and  
€ 1.26 billion adjusted EBITDA

# Our Core Products – Immunology and Bone





## Key information

	<b>BIMZELX®</b> ( <i>bimekizumab</i> )	<b>CIMZIA®</b> ( <i>certolizumab pegol</i> )	<b>EVENITY®</b> ( <i>romosozumab</i> )
	<ul style="list-style-type: none"> <li>• <b>Psoriasis</b> Approved in 27 EU Member states, 3 EEA (Iceland, Norway and Lichtenstein), Great Britain/ Switzerland, Japan, Canada, Saudi Arabia, UAE, Kuwait, Mexico and Australia Under regulatory review in the US, Turkey, Brazil, &amp; Israel</li> <li>• <b>Psoriatic arthritis, radiographic and non-radiographic axial Spondyloarthritis</b> Approved in EU in June 2023 Under regulatory review in GB, AUS, CAN and Japan; and China (AS)</li> <li>• <b>Hidradenitis suppurativa (HS)</b> Under regulatory review EU Further submissions starting Q3/2023</li> </ul>	<p>Crohn's disease Rheumatoid Arthritis Psoriatic Arthritis non-radiographic and radiographic axial Spondyloarthritis Psoriasis</p>	<p>EU launch progressing (available in Germany, UK, ES, IT, DK, SE, NL, BE, NO, CH) Launched by Amgen and Astellas in Japan and by Amgen in US and ROW</p>
	<b>&gt; 10 000</b> patients globally**	<b>180 000</b> patients globally*	<b>&gt; 485 000</b> patients since launch globally***
	No partner; in-house product	<a href="#">Astellas</a> (Japan – 2012) <a href="#">Cinkate</a> (China – 2019)	<a href="#">Amgen</a> (2020)
	<p><b>2032</b> (US, without patent term extension) <b>2036</b> (EU) <b>2037</b> (Japan)</p>	<p><b>2024</b> (US &amp; EU) <b>2026</b> (Japan)</p>	<p><b>2031</b> (EU &amp; Japan) <b>2033</b> (US) EVENITY® is being launched globally by Amgen, UCB and Astellas since 2019, with net sales outside Europe reported by Amgen and Astellas</p>



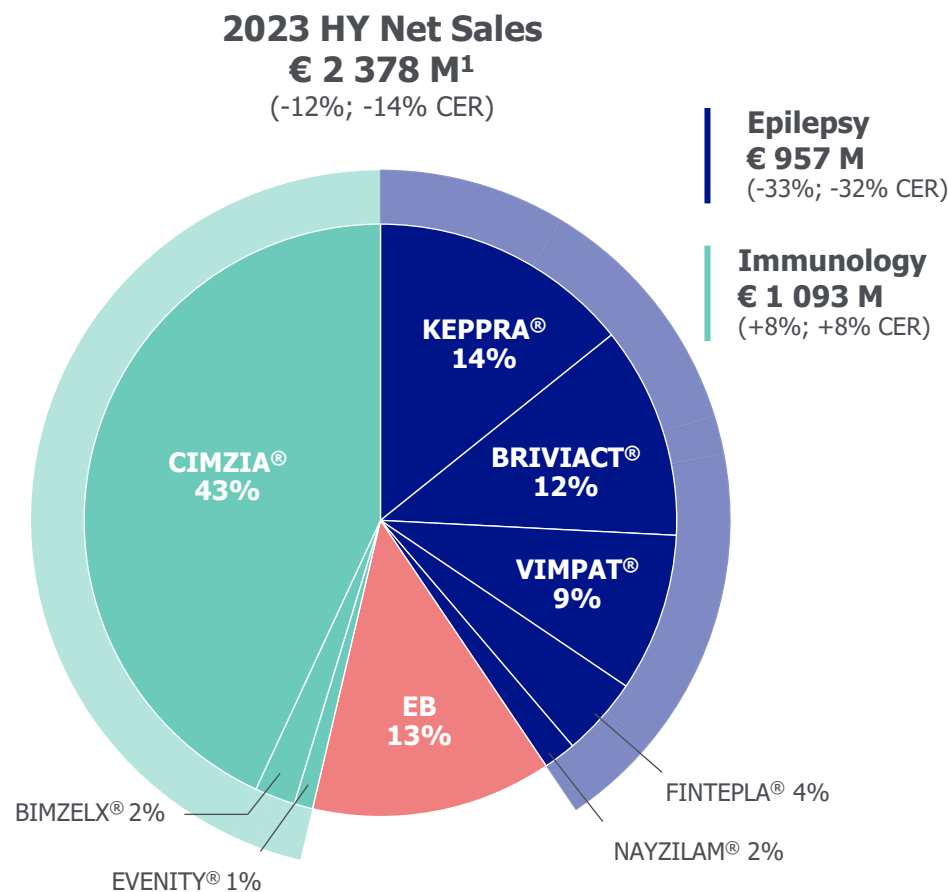
# Our Core Products – Neurology

## Key information\*

	<b>FINTEPLA®</b> (fenfluramine)	<b>NAYZILAM®</b> (midazolam)	<b>VIMPAT®</b> (lacosamide)	<b>KEPPRA®</b> (levetiracetam)	<b>BRIVIACT®</b> (brivaracetam)	<b>NEUPRO®</b> (rotigotine)
	Dravet-syndrome Approved and launched in US, EU, JPN. ODD in US, EU, JP Lennox-Gastaut syndrome Approved and launched in US, EU; ODD in US, EU, JP	• Epilepsy seizure clusters ( <a href="#">US - 2019</a> ) – <a href="#">orphan disease designation</a>	Epilepsy POS (pediatric label extension in US, Oct. 2021, and EU CHMP positive opinion, Jan. 2022) POS down to 4 years in Japan and China Epilepsy PGTCs	Epilepsy POS Epilepsy PGTCs Epilepsy myoclonic seizures	Epilepsy POS Adj. therapy Monotherapy (US) pediatric label extension in US, Aug. 2021, and EU CHMP positive opinion, Jan. 2022)	Parkinson's disease Restless legs syndrome
	<b>&gt; 1 000</b> patients globally*	<b>&gt; 90 000</b> patients in the U.S.*	<b>&gt; 600 000</b> patients globally*	<b>&gt; 1.8 million</b> patients globally*	<b>190 000</b> patients globally*	<b>&gt; 340 000</b> patients globally*
	Acquisition of Zogenix, Inc. in 2022	US only ( <a href="#">in-licensed from Proximagen</a> , 2018)	<a href="#">Daiichi Sankyo</a> (Japan – 2014)	Otsuka (Japan – 2008-2020)		Otsuka (Japan – 2002-2020)
	<b>2027</b> (ODE US Dravet Syndrome) <b>2032</b> (ODE EU & Japan Dravet Syndrome)	<b>2028</b> (US)	2022 (US & EU) <b>2024</b> (Japan)	2008 (US) 2010 (EU) 2020 (Japan)	<b>2026</b> (US & EU)	2021 (US & EU) <b>2024</b> (Japan) <b>2030</b> (Reformulation patent in EU)

Sales now reported under Established Brands

# Strong Product Portfolio – Managing Generic Erosion – Ready for Growth



	€ M	ACT	CER	
CIMZIA®	€ 1 017	+2%	+2%	Continuous growth
KEPPRA®	€ 336	-12%	-9%	Generic competition in Japan since early January 2022
BRIVIACT®	€ 273	+21%	+20%	Continued double-digit growth, expected peak sales of € 600 M in 2026
VIMPAT®	€ 204	-73%	-72%	Generic erosion since March 2022 in the U.S., since September 2022 in Europe, starting to stabilize
FINTEPLA®	€ 102	>100%	>100%	Included since March 2022, via acquisition of Zogenix
BIMZELX®	€ 52	>100%	>100%	now captures more than one third of new and switch prescriptions of IL17 products for psoriasis
NAYZILAM®	€ 42	+17%	+16%	Continued double-digit growth
EVENITY®	€ 24	>100%	>100%	Continued launches throughout Europe, making it available to more patients
Established Brands (EB)	€ 325	+1%	+2%	Solid contribution
NEUPRO®	€ 146	-6%	-6%	Now included in Established Brands (EB)

# Accelerate & Expand (2019-2021)

- ✓ Preparing for the future
- ✓ Maximize the number of lives we can positively impact
- ✓ Focus on patients that can benefit most
- ✓ Strengthen our R&D to deliver new compounds in shorter cycle times
- ✓ Identify & act on potential opportunities

2019

- ✓ EVENITY® launch
- ✓ NAYZILAM® launch (US)
- ✓ bimekizumab Phase 3 results in PsO
- ✓ bimekizumab Phase 3 start in PsA & AS
- ✓ padsevonil Phase 3 start in focal-onset seizures
- ✓ rozanolixizumab Phase 3 start in MG + Phase 2a in CIDP
- ✓ Agreement to acquire Ra Pharma

2020

- ✓ rozanolixizumab Phase 3 start in ITP (Jan)
- ✓ bimekizumab Phase 3 start in HS (Feb)
- ✓ padsevonil Phase 2b topline results (March)
- ✓ Ra Pharma closing (April)
- ✓ Acquisition of STACCATO® alprazolam (June)
- ✓ CIMZIA® co-promotion agreement with Ferring in the US (July)
- ✓ Partnership with Roche to develop UCB0107 in AD (July)
- ✓ dapirolizumab pegol Phase 3 start in SLE (Q3)
- ✓ bimekizumab filing in PsO (Sept)
- ✓ Acquisition of Handl Therapeutics & new R&D collaboration with Lacerta Therapeutics (Nov) in gene therapy
- ✓ VIMPAT® PGTCS approval (Q4)

2021

- ✓ bepranemab (UCB0107) Phase 2 started in AD (TOGETHER trial) in Q2
- ✓ EU: CHMP positive opinion on BIMZELX® (bimekizumab) in June 2021
- ✓ rozanolixizumab in CIDP de-prioritized (Feb)
- ✓ zilucoplan Phase 2 topline results in IMNM with good safety data, but C5 not relevant in this disease - discontinued
- ✓ rozanolixizumab Phase 2 in AIE started in Q3
- ✓ rozanolixizumab Phase 3 in MOG-antibody disease started in Q4
- ✓ STACCATO® alprazolam Phase 3 started in active epileptic seizure in Q4
- ✓ rozanolixizumab / zilucoplan Phase 3 topline results in myasthenia gravis late 2021 / early 2022
- ✓ bimekizumab Phase 3 topline results in psoriatic arthritis & axial spondyloarthritis (end of 2021/early 2022)
- ✓ Out-licensing of zampilimab to Chiesi
- ✓ Partnering with Novartis in Parkinson's disease



Inspired by patients.  
Driven by science.

AD: Alzheimer's disease; AIE: autoimmune encephalitis; AS: axial spondyloarthritis; CIDP: Chronic Inflammatory Demyelinating Polyneuropathy; HS: hidradenitis suppurativa; IMNM: Immune-Mediated Necrotizing Myopathy; ITP: Immune Thrombocytopenia; MG: myasthenia gravis; MOG: myelin oligodendrocyte glycoprotein; PGTCS: primary generalized tonic-clonic seizures; PsO: psoriasis; PsA: psoriatic arthritis; SLE: systemic lupus erythematosus



# UCB Epilepsy Leadership across the Globe

**>3.2  
million**

epilepsy patients  
under care **worldwide** in 2022

**1 million**  
compounds per drug screening

**>6**  
**targeted** projects in early  
discovery pipeline

worldwide epilepsy  
net sales

**>€1.83 bn<sup>1</sup>**

**>250**  
interventional studies

**>25,000**  
patients enrolled

## UCB's Portfolio of Epilepsy Solutions

**Keppra®**  
levetiracetam

**VIMPAT®**  
lacosamide

**BRIVIACT®**  
(brivaracetam)

**Nayzilam®**  
(midazolam) nasal spray

**Fintepla®**  
(fenfluramine)

## Strategic Epilepsy Investments and Partnerships

**Patient  
Solution  
Acquisitions**

**ZOGENIX**

**ENGAGE  
THERAPEUTICS**

**Drug  
Discovery  
Research**



Transcriptomic Big Data  
Library in Epilepsy

**GliaPharm**

**PRAxis**

**Handl  
Therapeutics**

**Eg**  
Element Genomics

**Digital  
Health**

**EYSZ**

**Byteflies**

**NextSense**  
www.nextsense.io

**nile**

**NEURAVA**



Inspired by **patients.**  
Driven by **science.**

<sup>1</sup>Full Year 2022

Exceeded peak sales ambition of over € 2bn already in 2022



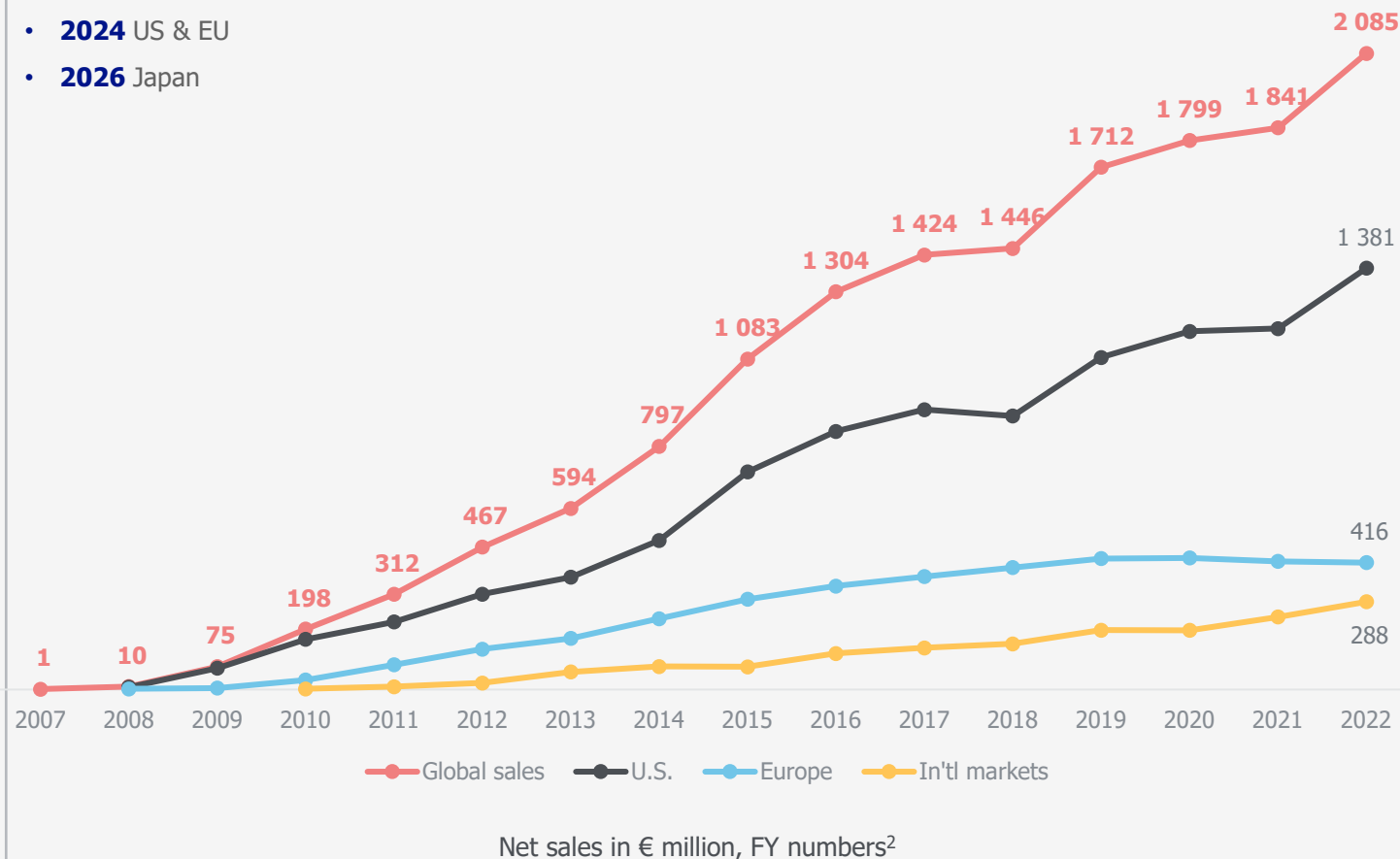
For patients (including women of child-bearing age) living with

- Rheumatoid arthritis
- Psoriatic arthritis
- Psoriasis
- (non-radiographic) Axial spondyloarthritis
- Crohn's disease (US)<sup>3</sup>

## Peak sales guidance: > € 2 billion by 2024

Loss of Exclusivity<sup>1</sup>

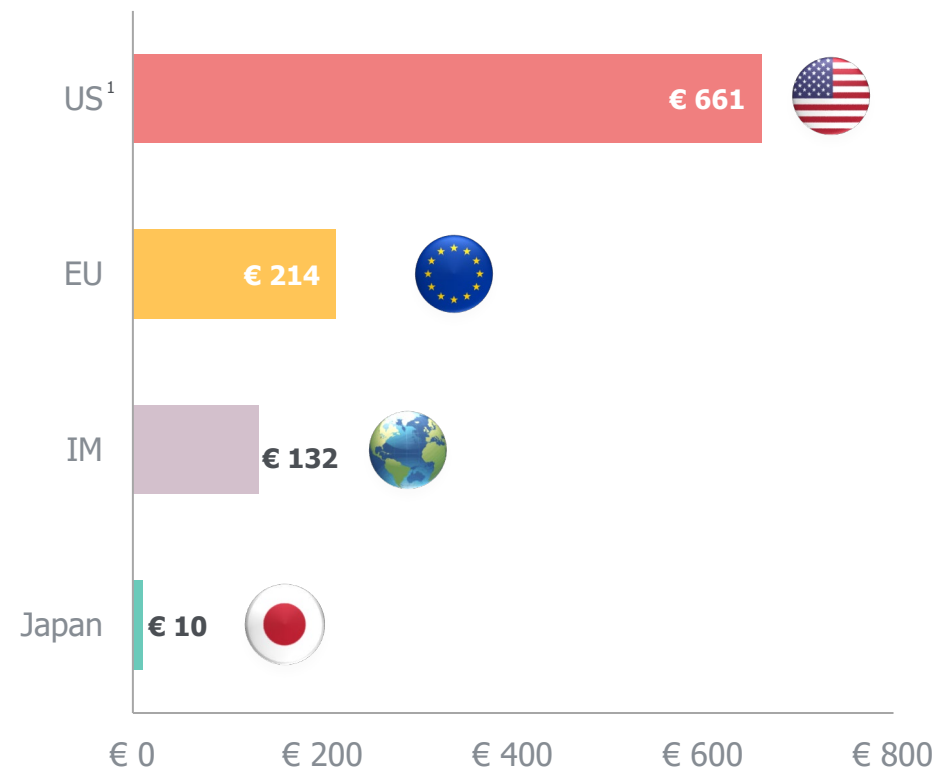
- **2024** US & EU
- **2026** Japan



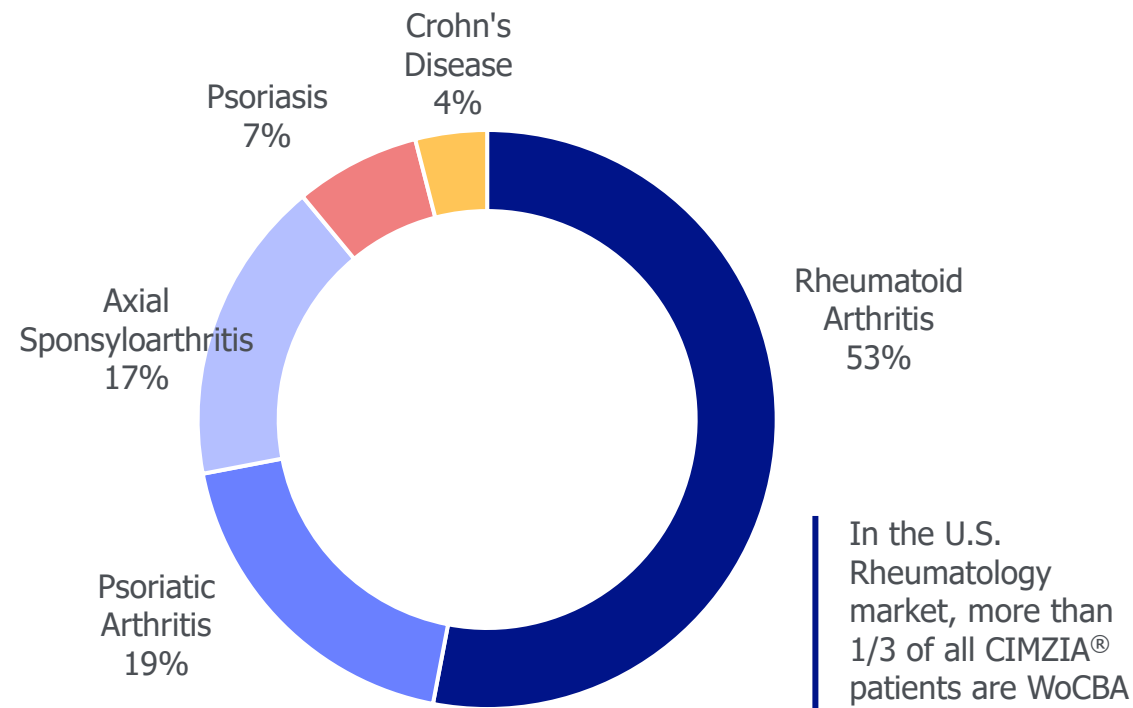
# CIMZIA® Continues to Provide a Stable Revenue Base

A differentiated product for people living with inflammatory TNF-mediated diseases

Net Sales, by Region  
H1: € 1 017 M



Net Sales, by Segment



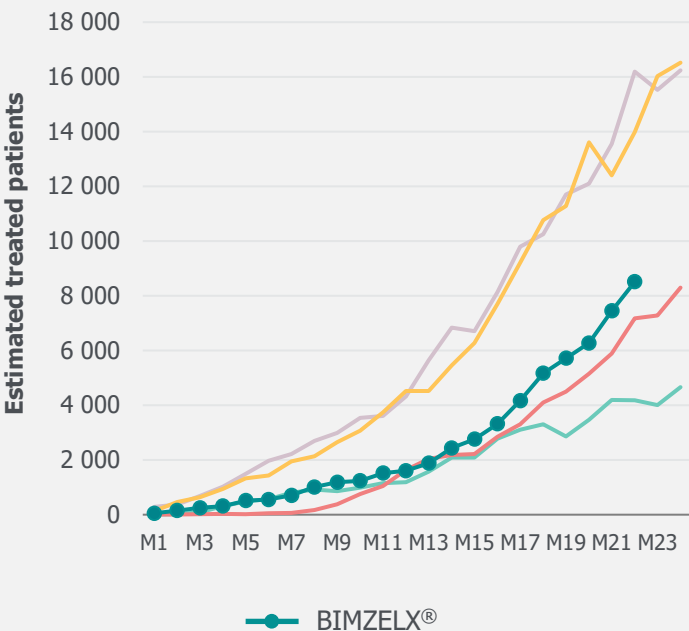
# Continued Strong BIMZELX® Uptake Across Global Launch Markets

Reaching over 10 000 patients worldwide in June 2023

## Europe

Accelerating uptake post pandemic

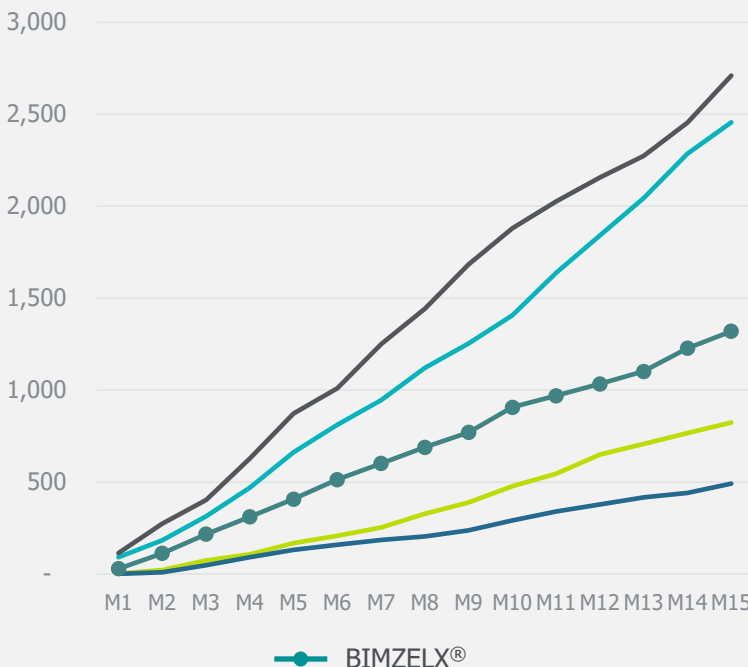
Estimated treated patients from regulatory approval vs competition



## Canada

Expanding usage fueling competitive growth

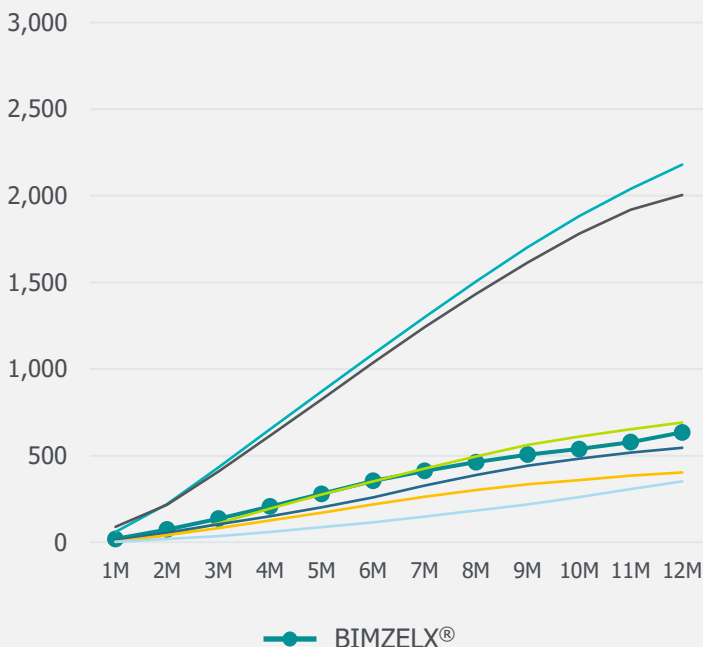
Cumulative monthly patients number from launch vs competition



## Japan

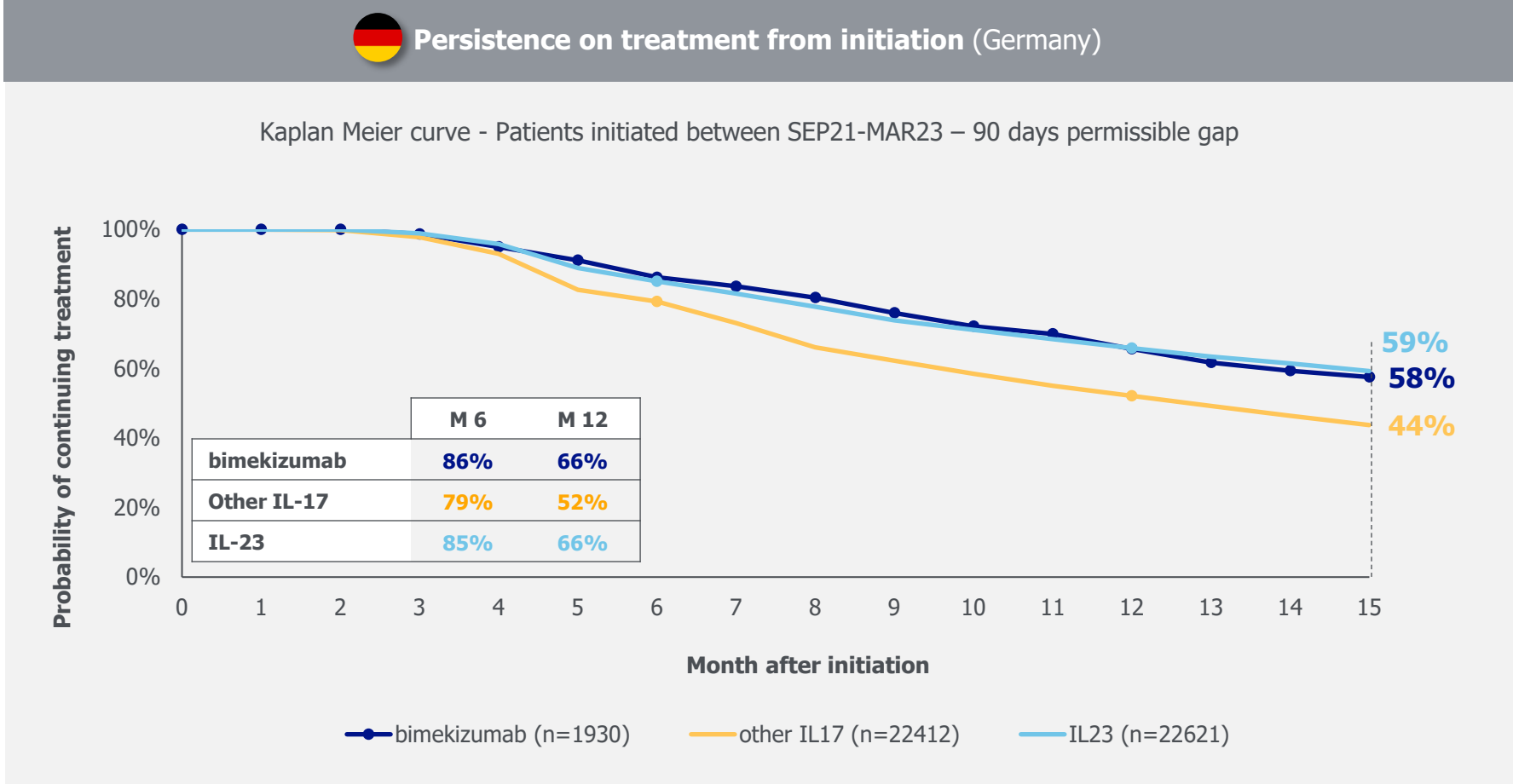
Growth continues vs IL-17s

Cumulative monthly patients number from launch vs competition



# BIMZELX® Patients More Likely to Continue Treatment Than on Other IL-17 and on Par With IL-23\*

Early insights on persistence...



Methodology:

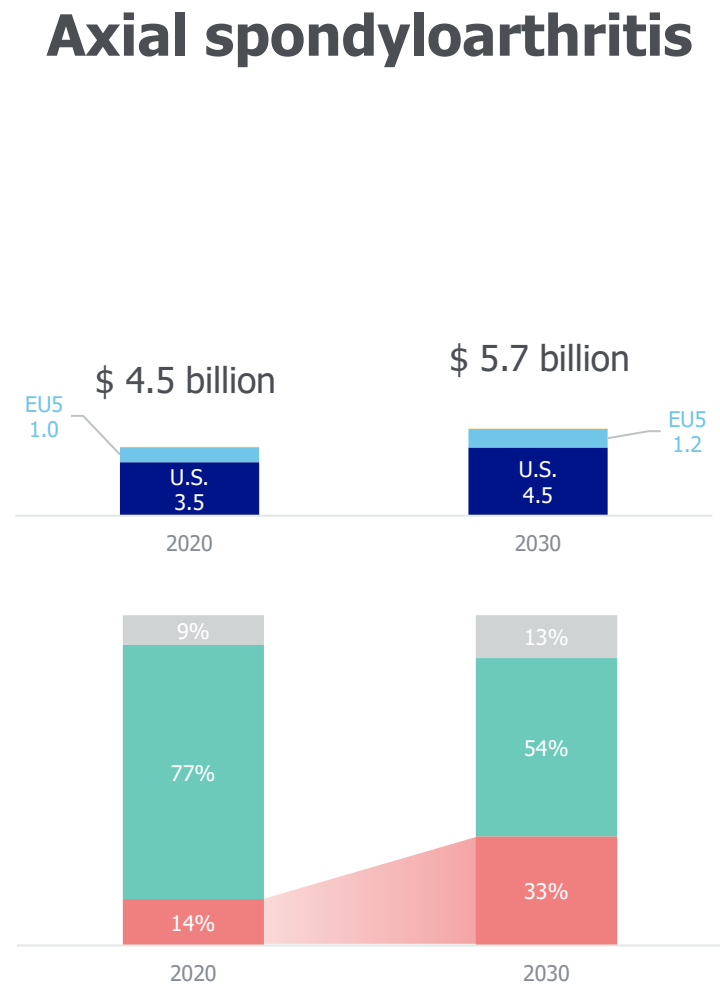
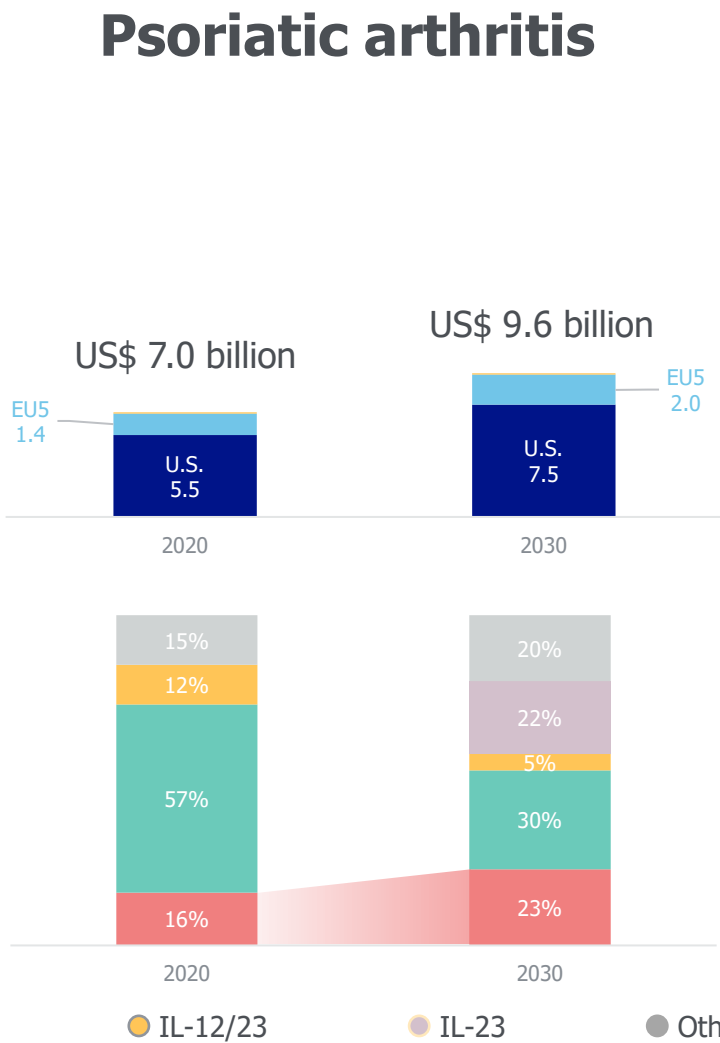
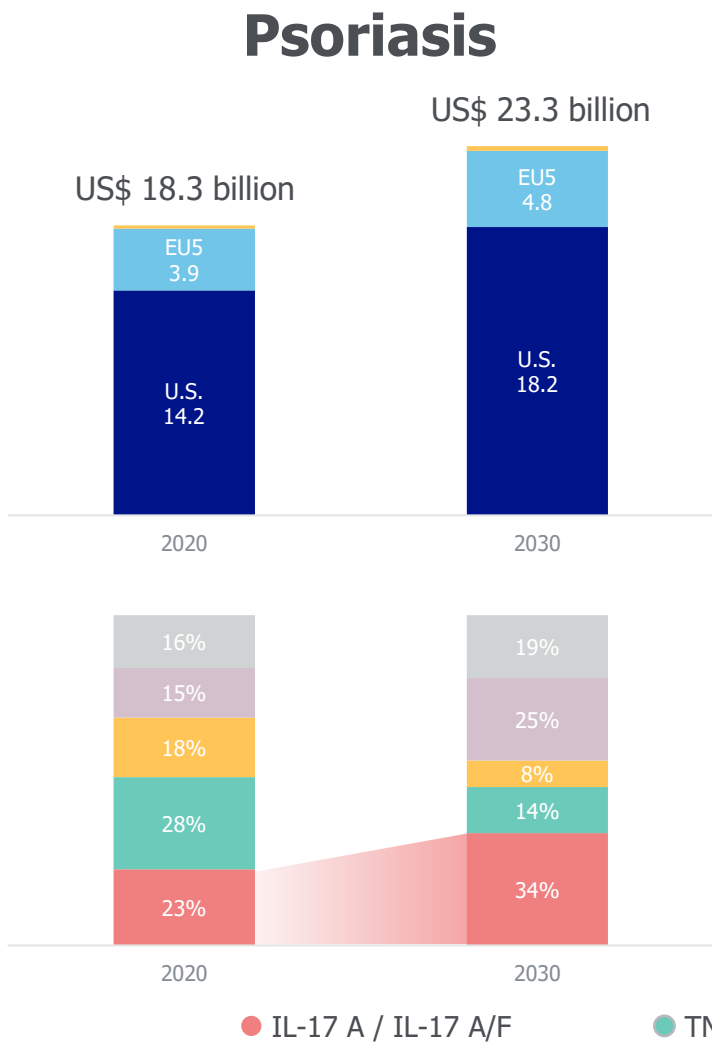
All patients initiated after SEP21 are selected, both bio-naïve and switch patients. Patients are followed until APR23.

Patients are considered persistent on treatment as long as they pick up repeat prescriptions within the theoretical interval between injections (as defined in the SmPC) + a permissible gap of 90 days. A gap in treatment of less than 90 days is considered a lack of compliance, not a lack of persistence.

Patients who cannot be followed for a complete period of 15 months are followed until the end of data availability: APR23. At the end of APR23, patients are marked as lost for follow-up and are censored (Kaplan-Meier method).

Note: The nature of Insight Health PIA data (pharmacy transactional data) leads to persistence absolute numbers which are more likely to be underestimated than overestimated because patients may change pharmacy over time and exit the panel. However, comparison across products remains fair.

# Focusing On Growth Markets





## Exceeded peak sales ambition of over € 1.5bn in 2021 and lost exclusivity in 2022 in US and EU

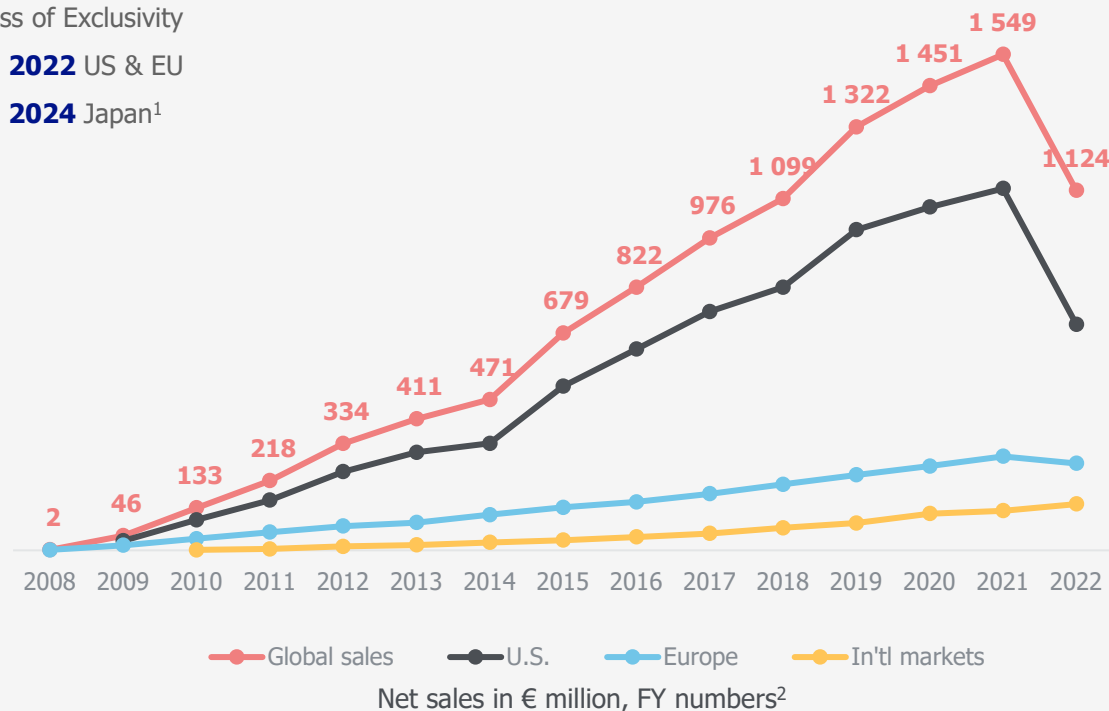
For patients living with

- Partial-onset seizures (POS), also known as focal seizures
  - 2021: US FDA approval for the treatment of partial-onset seizures in patients 1 month of age and older
  - 2021: EU positive CHMP opinion on use for the treatment of focal epileptic seizures in children 2 to 4 years of age (previously approved for patients >4 years of age)
  - JPN, China > 4 years of age
- Primary Generalized Tonic-Clonic Seizures (PGTCS)
  - US, EU, JPN > 4 years of age

### Peak sales guidance: > € 1.5 billion by 2022 - achieved

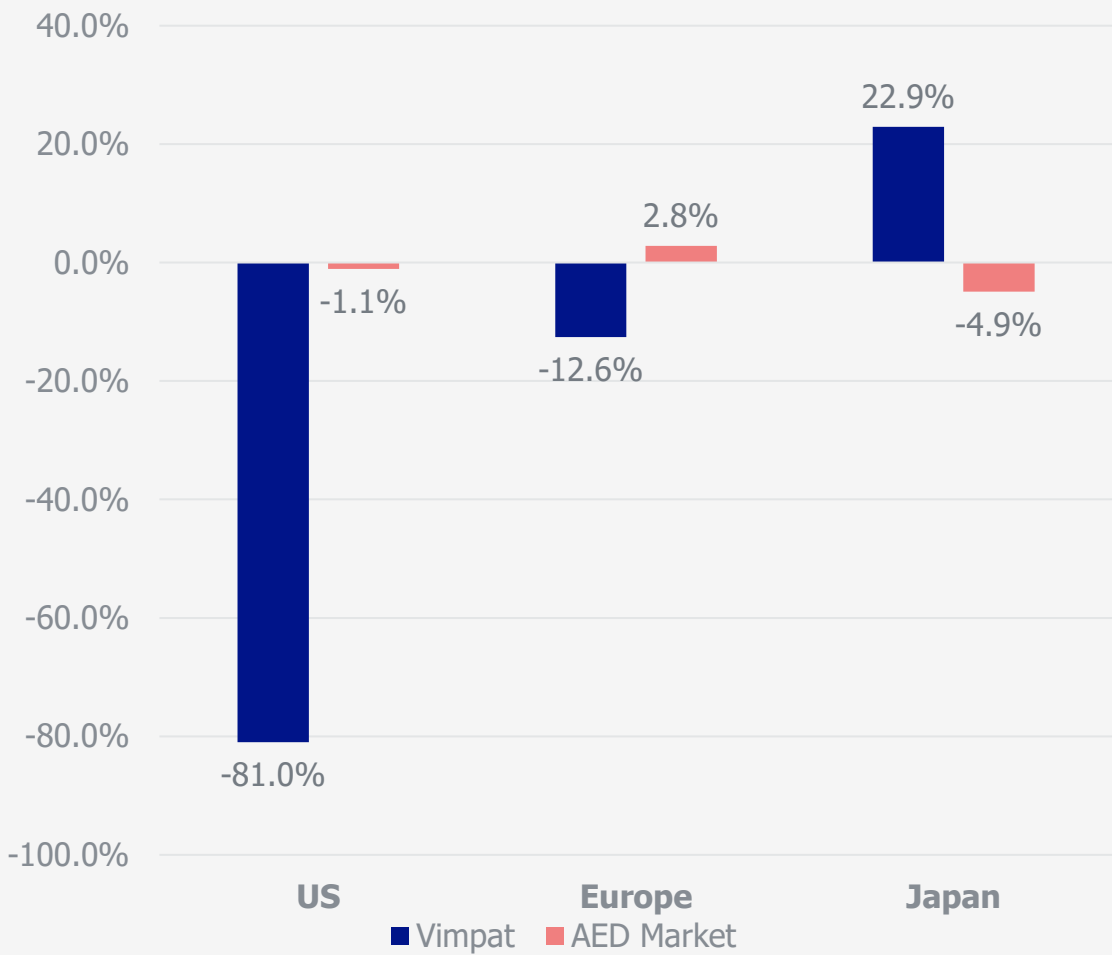
Loss of Exclusivity

- **2022** US & EU
- **2024** Japan<sup>1</sup>

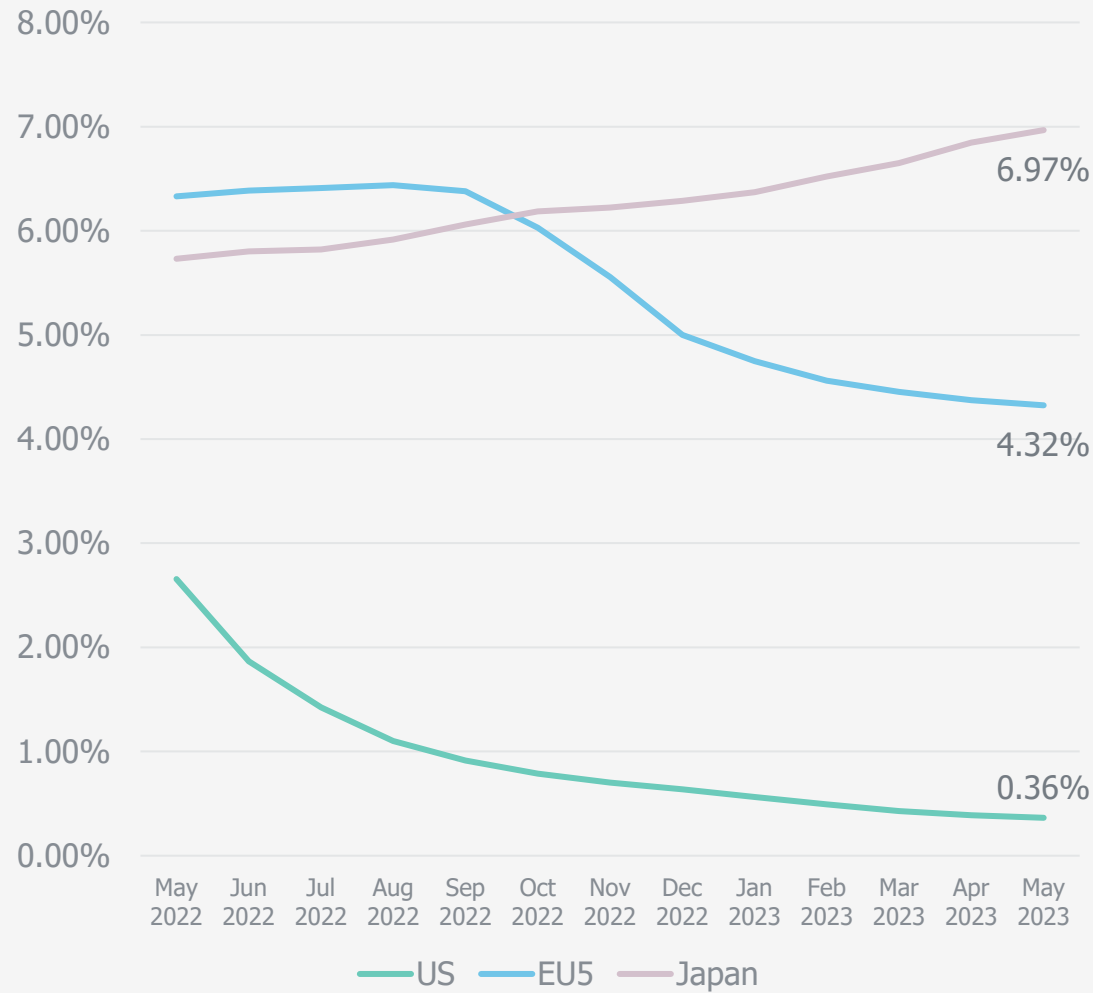


# VIMPAT® In-Market Performance

Vimpat vs. AED Market Growth (TRx/TDx)



Vimpat R3M TRx/TDx Share



US Loss of Exclusivity: March 2022

EU Loss of Exclusivity: September 2022

In-Market KPIs are based on TRx (US) and TDx (EU, Japan); AED market: All molecules in ATC3= N3A + Phenobarbital in N5B. In Europe and Japan, the TDx of all these molecules are AED Market and Vimpat TRx/TDx growth are calculated for MAT May 23 vs. MAT May 22 factored for epilepsy usage. In the US, the TRx of 26 of these molecules are factored for epilepsy usage. Vimpat TRx/TDx market share is calculated for R3M May 23 and market share growth is shown against R3M May 22.

# BRIVIACT®

Available to more and more patients

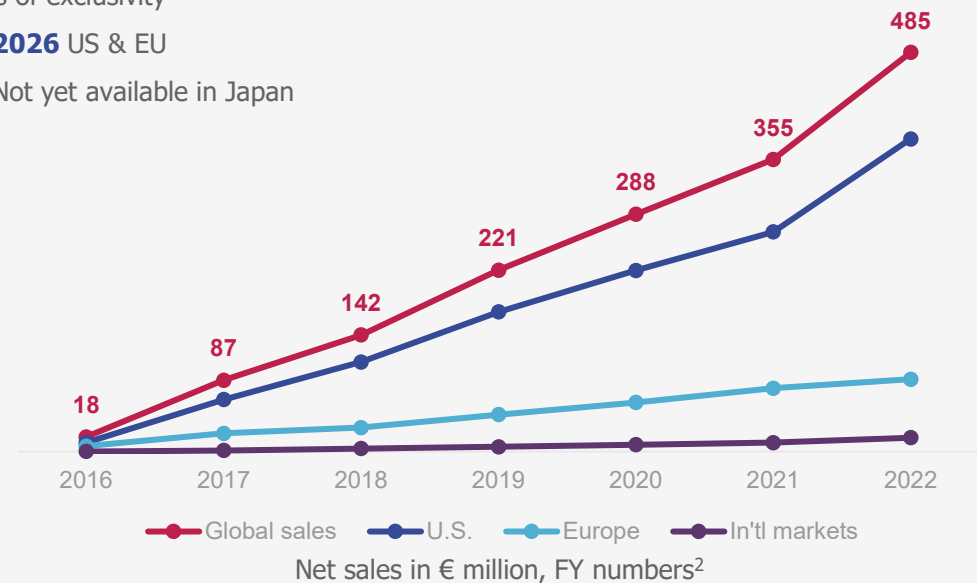
For people living with

- partial-onset seizures (POS), also known as focal seizures
  - 2021: US FDA approval as both monotherapy or adjunctive therapy for the treatment of partial-onset seizures in patients 1 month of age and older
  - 2021: positive CHMP opinion on use for the treatment of focal epileptic seizures in children 2 to 4 years of age (previously approved for patients >4 years of age)

## Peak sales guidance: € 600 million (2026)

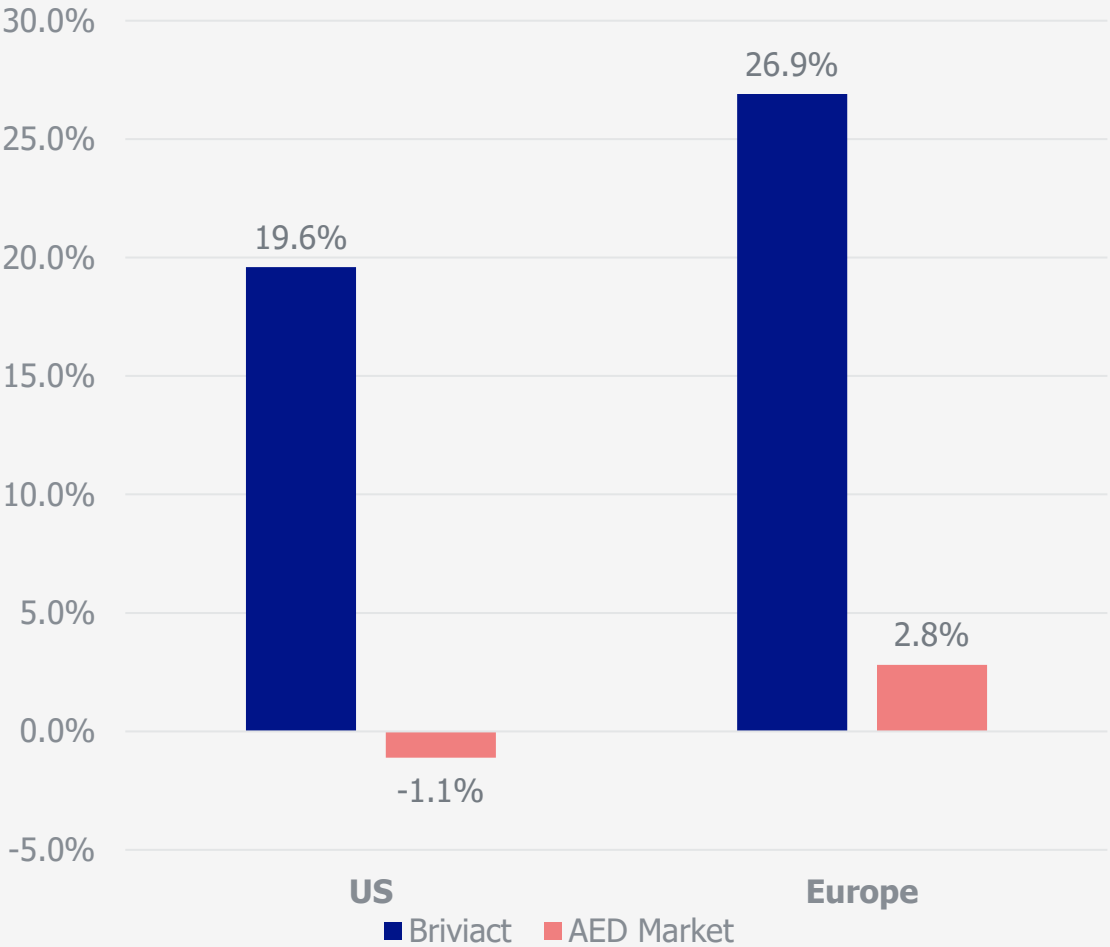
Loss of exclusivity<sup>1</sup>

- **2026** US & EU
- Not yet available in Japan

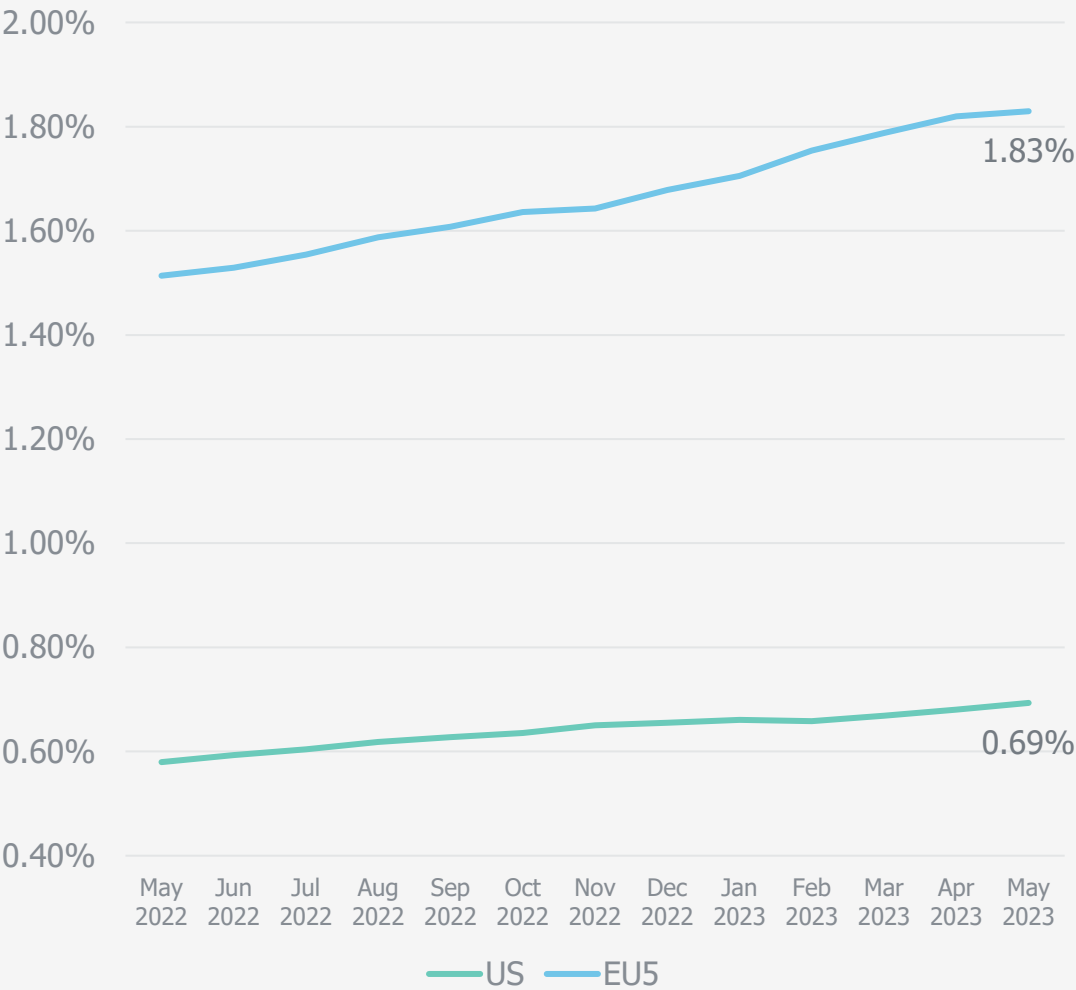


# BRIVIACT® In-Market Performance

Briviact vs. AED Market Growth (TRx/TDx)



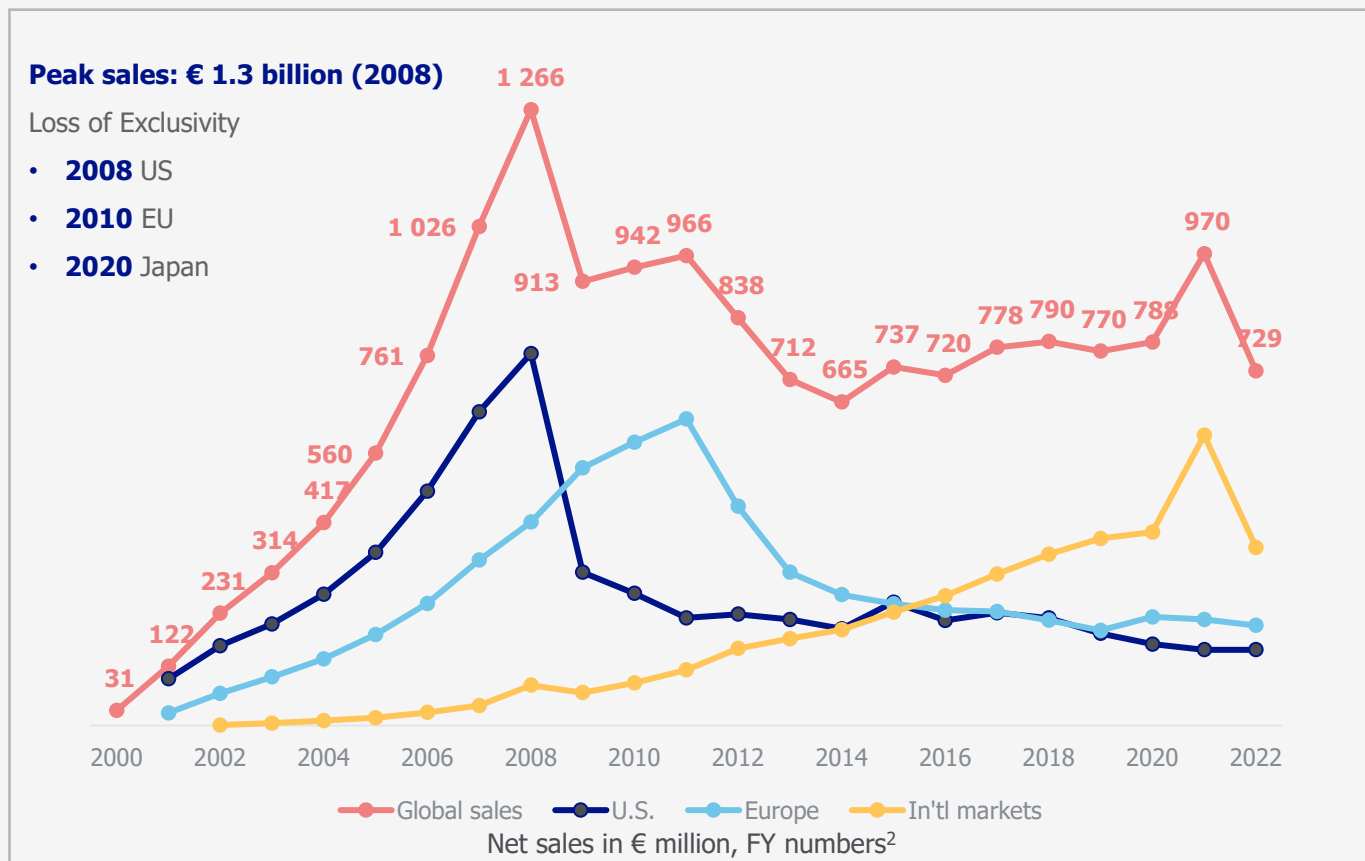
Briviact R3M TRx/TDx Share





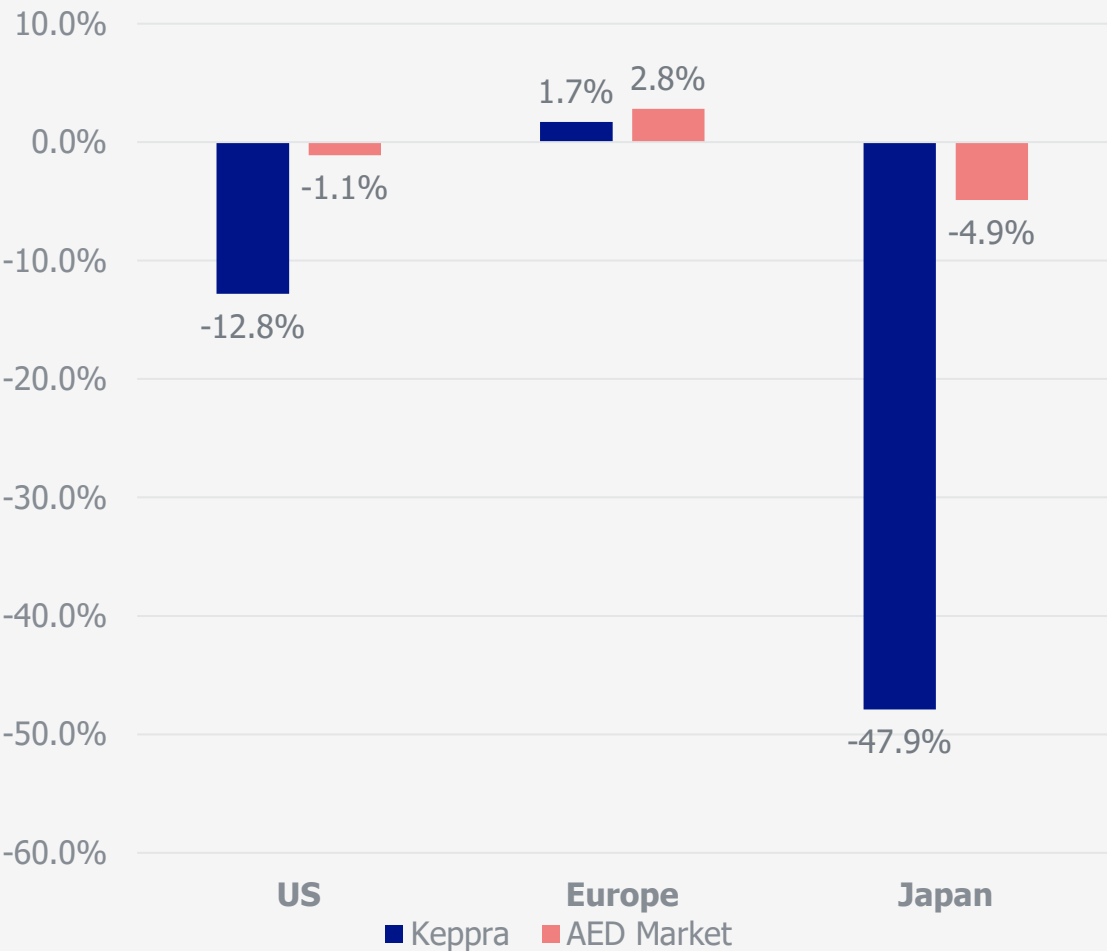
For people living with

- partial-onset seizures (POS), also known as focal seizures
- primary generalized tonic-clonic seizures (PGTCS)
- myoclonic seizures

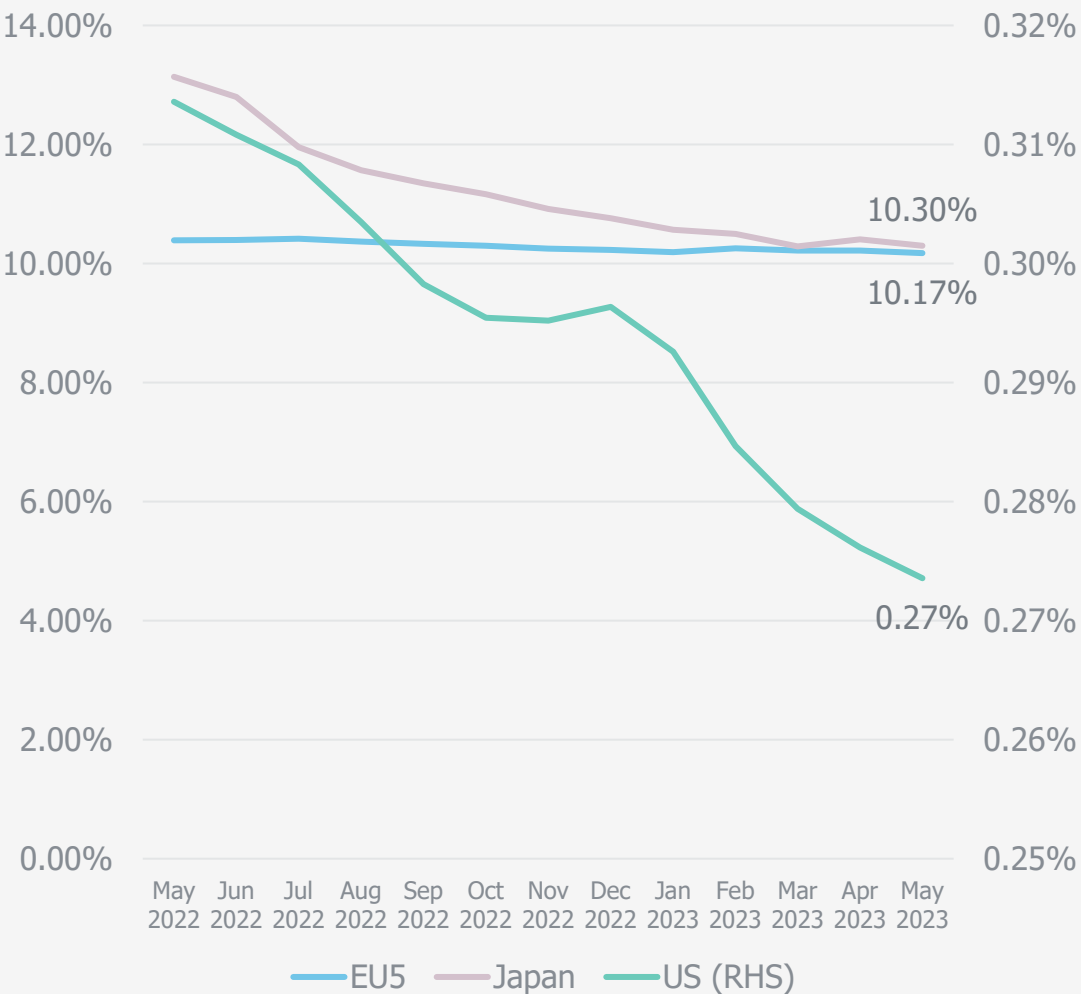


# KEPPRA® In-Market Performance

Keppra vs. AED Market Growth (TRx/TDx)



Keppra R3M TRx/TDx Share



Japan start generic competition: Early 2022

In-Market KPIs are based on TRx (US) and TDx (EU, Japan); AED market: All molecules in ATC3= N3A + Phenobarbital in N5B. In Europe and Japan, the TDx of all these molecules are AED Market and Keppra TRx/TDx growth are calculated for MAT May 23 vs. MAT May 22 factored for epilepsy usage. In the US, the TRx of 26 of these molecules are factored for epilepsy usage. Keppra TRx/TDx market share is calculated for R3M May 23 and market share growth is shown against R3M May 22. For US, Keppra includes Keppra XR.



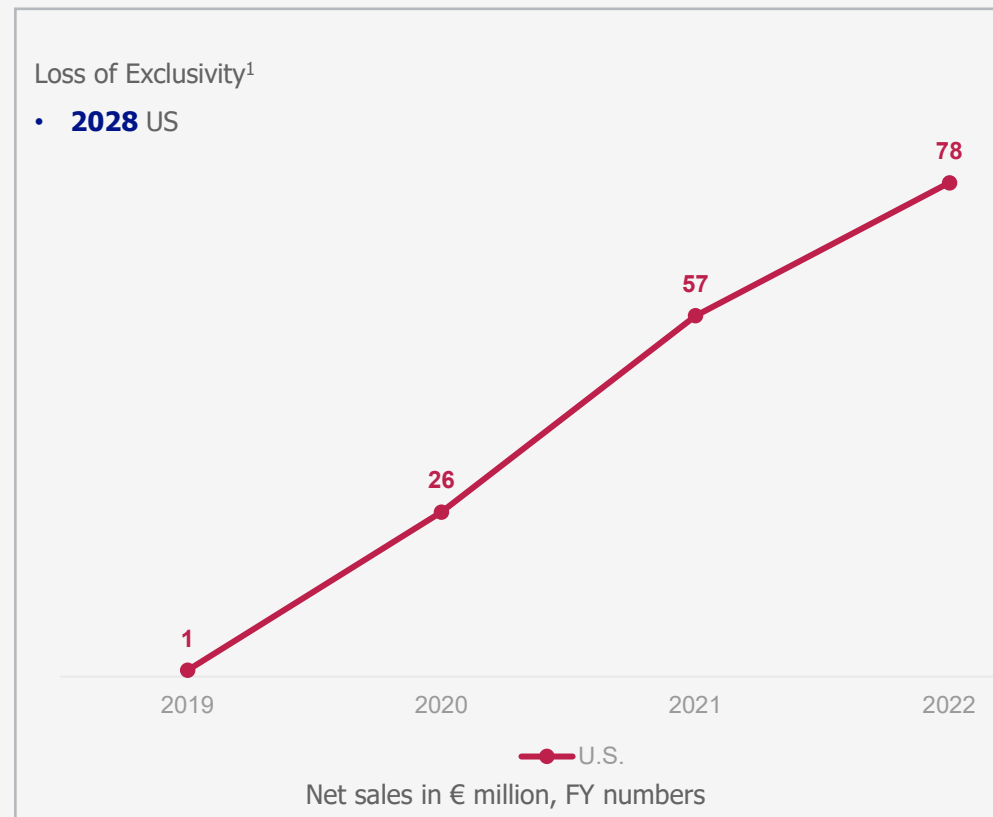
# NAYZILAM®

Available to a growing number of patients in the USA



For patients living with epilepsy seizure clusters  
([US - 2019](#))

Nayzilam® was acquired in [2018](#) from Proximagen.



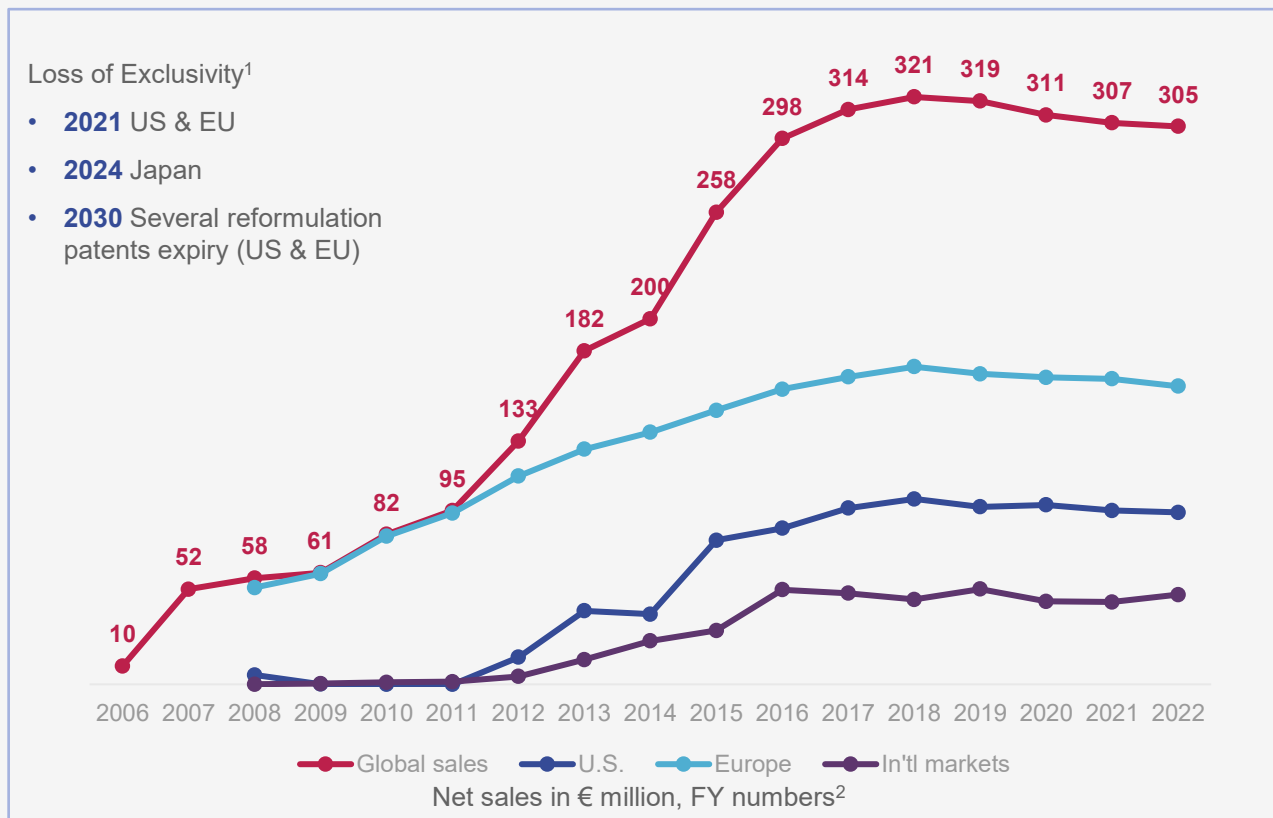
# NEUPRO®

Reached peak sales in 2018



For people living with

- Parkinson's disease
- Restless legs syndrome



Inspired by patients.  
Driven by science.

<sup>1</sup> Loss of Exclusivity dates are indicative. <sup>2</sup> Numbers may not add due to rounding.

# Impact of EVENITY® on UCB's P&L

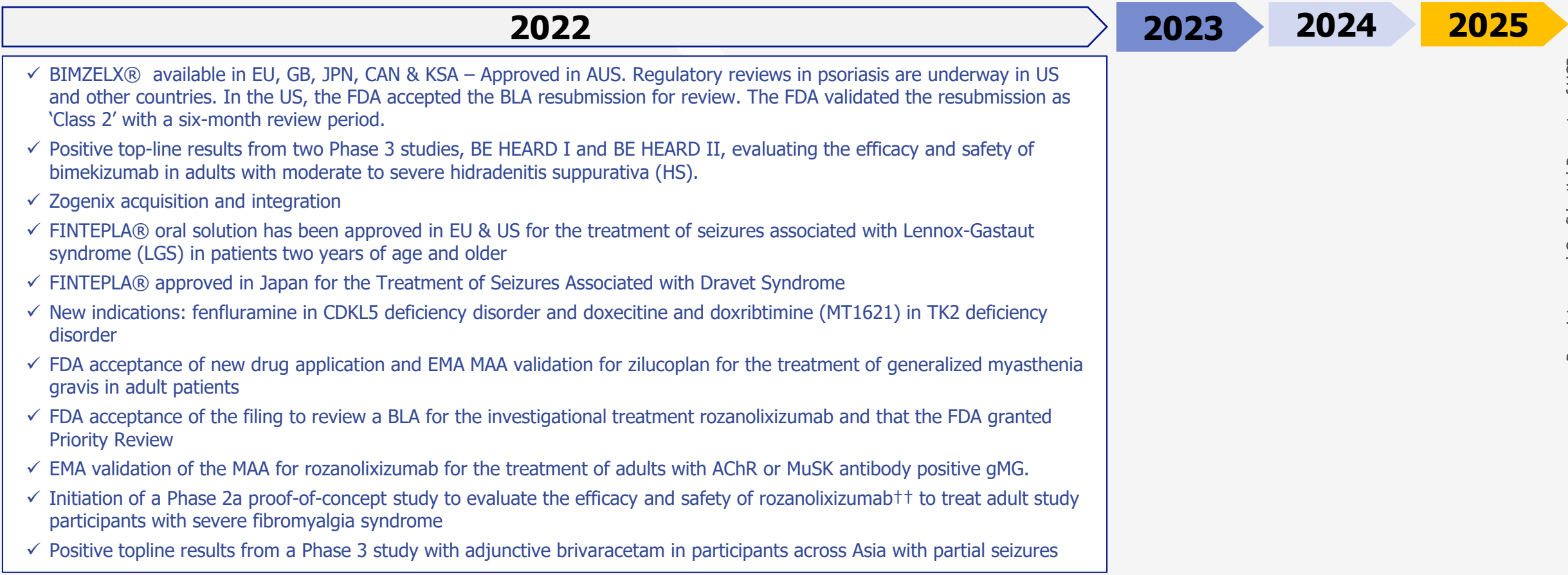
	UCB	Amgen	Astellas
+ <b>Net sales</b>	European sales	US & RoW sales + intercompany sales to Japan	In-market sales Japan
- <b>Cost of goods</b>	European sales	US & RoW sales + intercompany sales to Japan	Intercompany sales to Japan
- <b>Operating expenses</b>	European sales and costs for future UCB market launches	US & RoW sales and costs for future Amgen market launches	Japanese sales
+/- <b>Other operating income/expense</b>	50% of profit outside Europe minus 50% of EU profit/loss <sup>1</sup>	50% of EU profit/loss <sup>1</sup> minus 50% of profit outside Europe	
<hr/>			
= <b>Adj. EBITDA includes</b>	50% of worldwide profit	50% of worldwide profit	

**Due to lower European sales compared to world-wide sales, EVENITY® over-proportionally contributes to UCB’s adjusted EBITDA**

<sup>1</sup> Breakeven not reached yet, hence Amgen carries 50% of the European loss.  
 RoW = Rest of World

# Breakthrough & Lead (2022-2025)

- **Lead in five specific patient populations** (partial-onset / focal epileptic seizures; psoriatic arthritis; women of child-bearing age; osteoporosis-related fractures; generalized myasthenia gravis)
- **Breakthrough and drive impact** with next generation of science and technologies
- **Engage and partner** with key stakeholders within UCB and across society to co-create sustainable impact and attract the next generation of talent



# Further approvals since HY 2023

Ongoing regulatory reviews = expected approvals, followed by launches

CLINICAL

REGULATORY REVIEWS

SUBMISSIONS

Q1 2023	Q2 2023	H2 2023	H1 2024	H2 2024
<div>2023 approvals and ongoing regulatory reviews</div> <div><div> <b>FINTEPLA®</b> / LGS EU</div><div> <b>RYSTIGGO®</b> / gMG U.S.</div><div> <b>ZILBRYSQ®</b> / gMG Japan</div><div> bimekizumab / PsA Japan</div><div> <b>BIMZELX®</b> / PsA EU</div><div> <b>RYSTIGGO®</b> / gMG Japan</div><div> bimekizumab nr-axSpA / AS Japan</div><div> <b>BIMZELX®</b> / axSpA EU</div><div> <b>BIMZELX®</b> / PSO U.S.</div><div> zilucoplan / gMG U.S. &amp; EU</div></div>			<div>11 clinical study read-outs across UCB clinical pipeline in 2024</div> <div><div> rozanolixizumab / gMG EU</div><div> bimekizumab / HS EU</div></div>	
<div>2023 filings...</div> <div><div> rozanolixizumab / gMG Japan</div><div> bimekizumab / HS EU</div><div> brivaracetam Japan</div><div> bimekizumab / HS Japan</div><div> bimekizumab / PsA / nr-axSpA / AS Japan</div><div> fenfluramine / LGS Japan</div><div> bimekizumab / PsA / nr-axSpA / AS / HS U.S.</div></div>			<div>...leading to potential launches in 2024</div>	

# ... a Remarkable UCB Clinical Development Pipeline

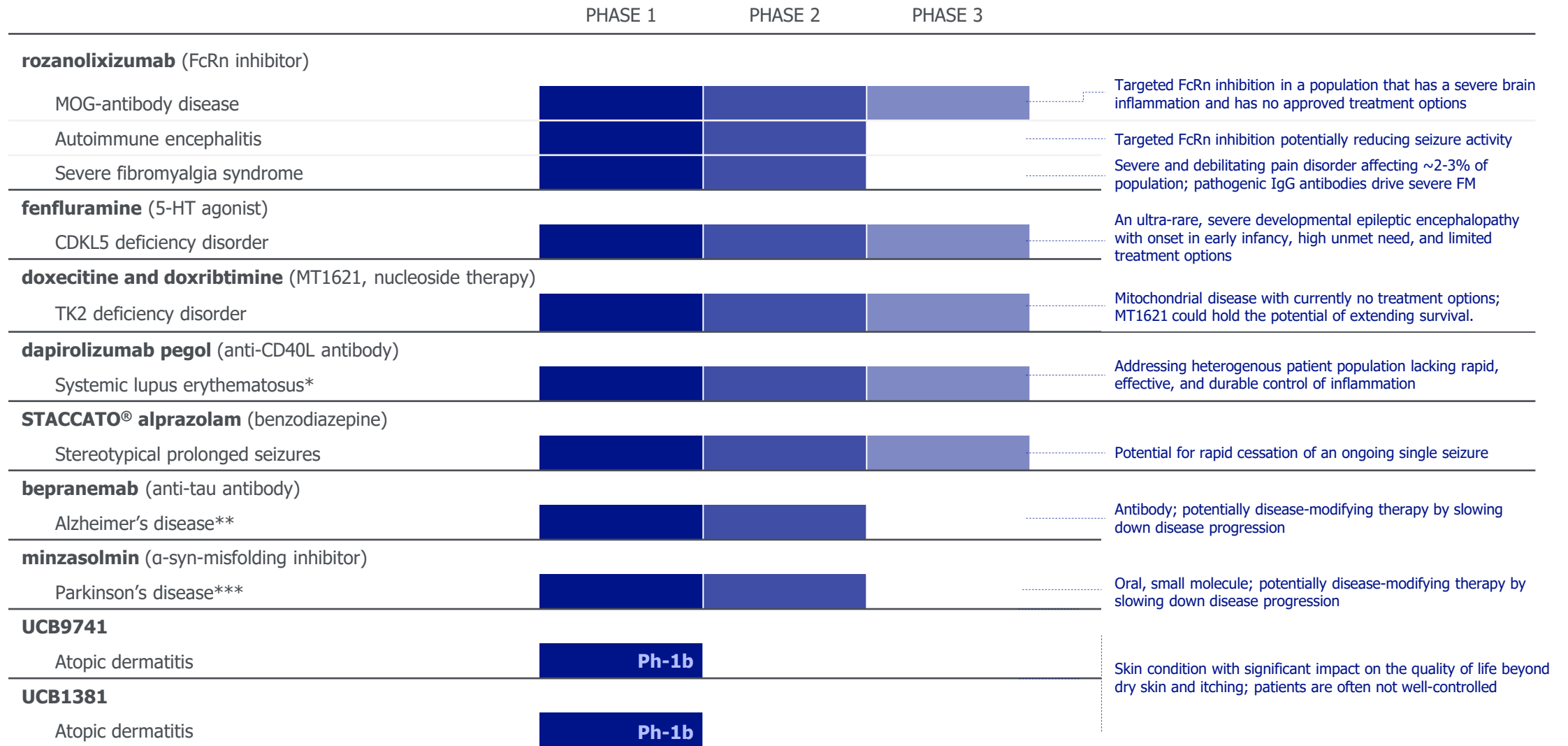
Nine clinical development assets, 11 ongoing studies

	PHASE 1	PHASE 2	PHASE 3	
<b>rozanolixizumab</b> (FcRn inhibitor)				
MOG-antibody disease				Topline results H2 2024
Autoimmune encephalitis				Topline results H1 2024
Severe fibromyalgia syndrome				Topline results H2 2024
<b>fenfluramine</b> (5-HT agonist)				
CDKL5 deficiency disorder				Topline results H2 2024
<b>doxecitine and doxribtimine</b> (MT1621, nucleoside therapy)				
TK2 deficiency disorder				Starting submissions in mid-year 2024
<b>dapirolizumab pegol</b> (anti-CD40L antibody)				
Systemic lupus erythematosus*				Topline results mid-year 2024
<b>STACCATO® alprazolam</b> (benzodiazepine)				
Stereotypical prolonged seizures				Topline results H1 2024
<b>bepranemab</b> (anti-tau antibody)				
Alzheimer's disease**				Topline results Q4 2024
<b>minzasolmin</b> (α-syn-misfolding inhibitor)				
Parkinson's disease***				Topline results Q4 2024
<b>UCB9741</b>				
Atopic dermatitis		Ph-1b		
<b>UCB1381</b>				
Atopic dermatitis		Ph-1b		



# ... a Remarkable UCB Clinical Development Pipeline

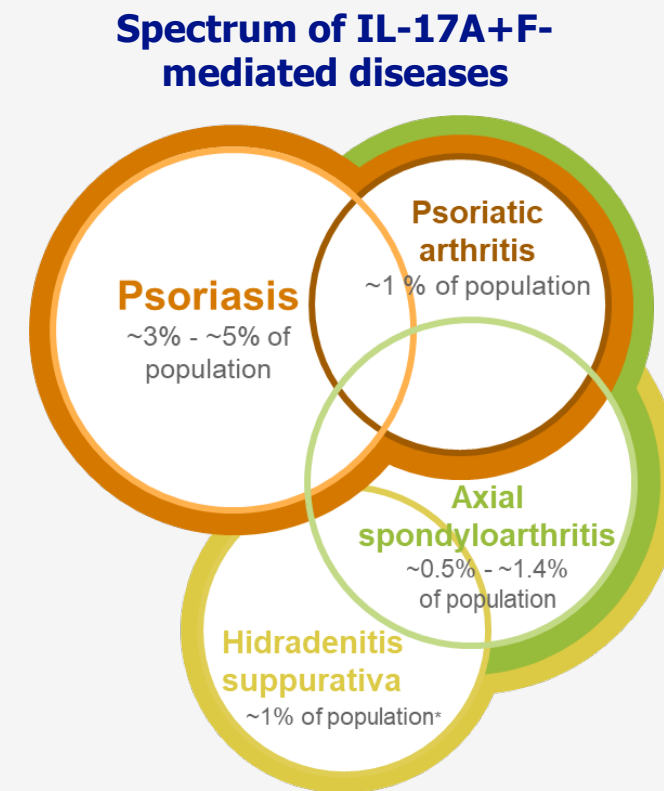
Nine clinical development assets, 11 ongoing studies



# BIMZELX® (bimekizumab) Phase 3 Clinical Development Programs

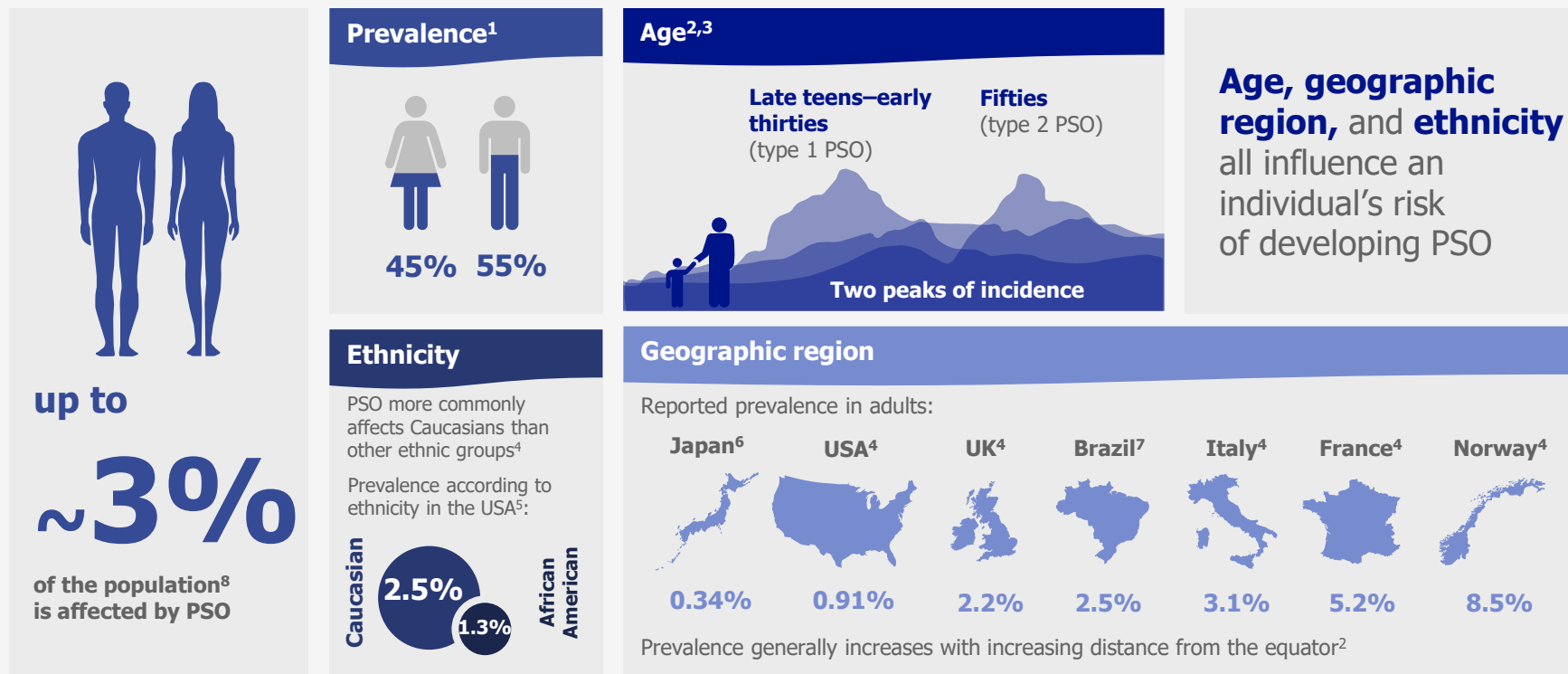
>4 500 patients enrolled

<b>Psoriasis</b> (PSO) 3x superior	<b>Psoriatic arthritis</b> (PsA)	<b>Axial spondyloarthritis</b> (nr-axSpA & AS/r-axSpA)	<b>Hidradenitis suppurativa</b> (HS)
<b>BE VIVID</b> (PS0009) NCT03370133 (vs <i>ustekinumab</i> ) <b>BE READY</b> (PS0013) NCT03410992 (vs placebo) <b>BE SURE</b> (PS0008) NCT03412747 (vs <i>adalimumab</i> ) <b>BE RADIANT</b> (PS0015) NCT03536884 (vs <i>secukinumab</i> ) > 2 000 patients*	<b>BE OPTIMAL</b> (PA0010) NCT03895203 (vs placebo) <b>BE COMPLETE</b> (PA0011) NCT03896581 (vs placebo) > 1 200 patients*	<b>BE MOBILE1</b> (AS0010) NCT03928704 (vs placebo in nr-axSpA) <b>BE MOBILE2</b> (AS0011) NCT03928743 (vs. placebo in AS/r-axSpA) > 500 patients*	<b>BE HEARD I</b> (HS0003) NCT04242446 (vs placebo) <b>BE HEARD II</b> (HS0004) NCT04242498 (vs placebo) ~ 1 000 patients*
Approved in 39 countries including EU, JPN, CAN; filed in the US**	Approved in EU, regulatory reviews ongoing	Approved in EU, regulatory reviews ongoing	Submissions started Q3 2023



Latest data can be found here:  
[Scientific Presentations, Abstracts, and Posters - Bimekizumab | UCB](#)

# Psoriasis: High Prevalence Globally



1. Kimball AB et al. *Br J Dermatol*. 2014;171(1):137-147. 2. Crow JM. *Nature*. 2012;492(7429):S50-S51. 3. Langley RG et al. *Ann Rheum Dis*. 2005;64(suppl 2):ii18-23; discussion ii24-25. 4. Parisi R et al. *J Invest Dermatol*. 2013;133(2):377-385. 5. Enamandram M and Kimball AB. *J Invest Dermatol*. 2013;133(2):287-289. 6. Kubota K et al. *BMJ Open*. 2015 Jan 14;5(1):e006450. 7. Duarte GV et al. *Psoriasis( Auckl)*. 2015;5:55-64 8. Parisi R, et al. *J Invest Dermatol*. 2013;133:377-385.

# Psoriatic Arthritis: High Unmet Need and Disease Burden

## Psoriatic arthritis (PsA)

PsA is a complex disease with a **broad range of manifestations**, including swelling of the joints, entheses, and skin psoriasis<sup>1-3</sup>

It is associated with **six key disease domains**<sup>4</sup>



Peripheral arthritis



Axial disease



Enthesitis



Dactylitis

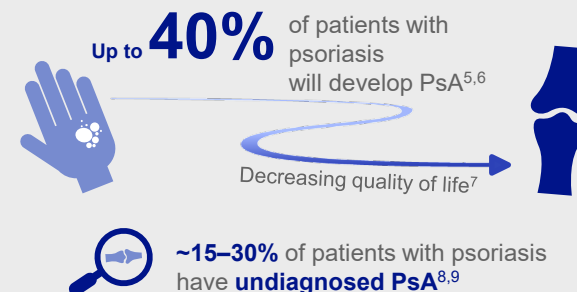


Skin



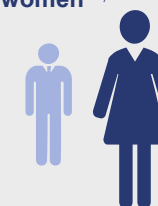
Nails

## Disease progression

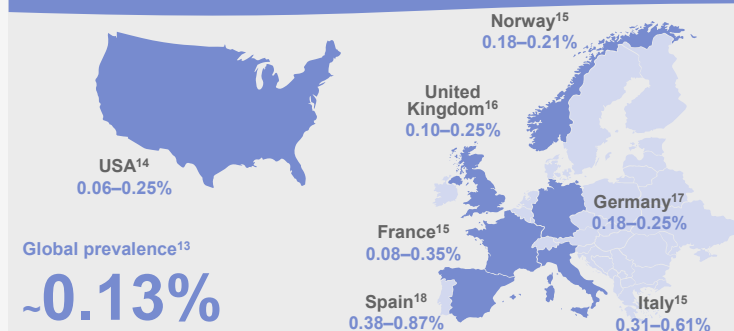


## Gender differences

Diagnosis is delayed<sup>10</sup> and outcomes are **worse in women**<sup>11,12</sup>



## Prevalence by geographic region



## Burden of disease

Pain/swelling<sup>19</sup>



Itching<sup>7</sup>



Depression, anxiety and mental health<sup>11,20</sup>



Difficulty with everyday activities<sup>21</sup>



Quality of life reduced<sup>20,21</sup>



Approximately **1 in 3** patients achieve **minimal disease activity criteria** in real-life studies with current treatments<sup>22</sup>

\*Based on a study of patients in cross-sectional and cohort studies (n=39) fulfilling 5 out of the 7 MDA criteria: tender joint count (TJC) ≤1; swollen joint count (SJC) ≤1; psoriasis activity and severity index (PASI) ≤1 or body surface area (BSA) ≤3; patient pain visual analogue scale (pain VAS) score ≤15; patient global disease activity (global VAS) score ≤20; health assessment questionnaire (HAQ) score ≤0.5; and tender entheses points ≤16. 1. NHS. Psoriatic arthritis, 2019. Available at: <https://www.nhs.uk/conditions/psoriatic-arthritis/>. Accessed October 2020. 2. Ocampo DV et al. F1000Research. 2019;8:F1000 Faculty Rev-1665. 3. Gladman DD. F1000Research. 2016;5:2670-2670. 4. Coates LC et al. Arthritis Rheumatol. 2016;68(5):1060-1071. 5. Mease PJ and Armstrong AW. Drugs. 2014;74(4):423-441. 6. Gladman DD et al. Ann Rheum Dis. 2005;64 Suppl 2:ii14-17. 7. Kavanaugh A et al. Rheumatol Ther. 2016;3(1):91-102. 8. Villani et al. J Am Acad Dermatol. 2015;73:242-248. 9. Haroon M et al. Ann Rheum Dis. 2015;74(6):1045-1050. 10. Jovani V et al. PLoS One. 2018;13(10):e0205751. 11. Nas K et al. Ann Rheum Dis 2019; 78(Suppl 2):920-921. 12. Eder L et al. Ann Rheum Dis. 2013;72(4):578-582. 13. Scotti L et al. Semin Arthritis Rheum 2018;48(1):28-34. 14. Ogdie A and Weiss P. Rheum Dis Clin North Am 2015;41(4):545-568. 15. Alamanos Y et al. J Rheumatol. 2008;35:1354-1358. 16. Ogdie et al. Rheumatology. 2013;52(3):568-575. 17. Sewerin P et al. Ann Rheum Dis. 2019;78:286-287. 18. Pérez A et al. PLoS One. 2020;15(6):e0234556. 19. Lebwohl MG et al. J Am Acad Dermatol. 2014;70(5):871-881. 20. Salaffi F et al. Health Qual Life Outcomes. 2009;7:25. 21. Picchianti-Diamanti A et al. Qual Life Res. 2010;19:821-826. 22. Zardin-Moraes M et al. J Rheumatol. 2020;47(6):839-846.

# What is axial spondyloarthritis (axSpA)?

axSpA is a **chronic, immune-mediated, inflammatory rheumatic disease** affecting the **sacroiliac joints (SIJ)** and **spine**<sup>1-3</sup>

Key **patient** symptoms:<sup>1</sup>



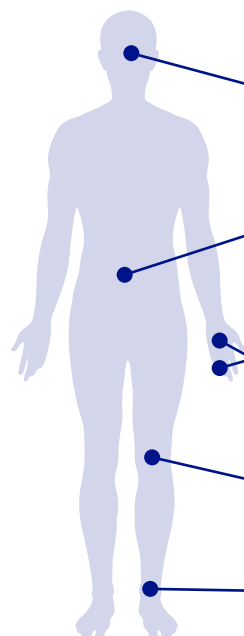
**Chronic back pain**



**Morning stiffness**



**Fatigue**



Key **non-axial** symptoms:<sup>4-8</sup>

**Uveitis**  
30–40%

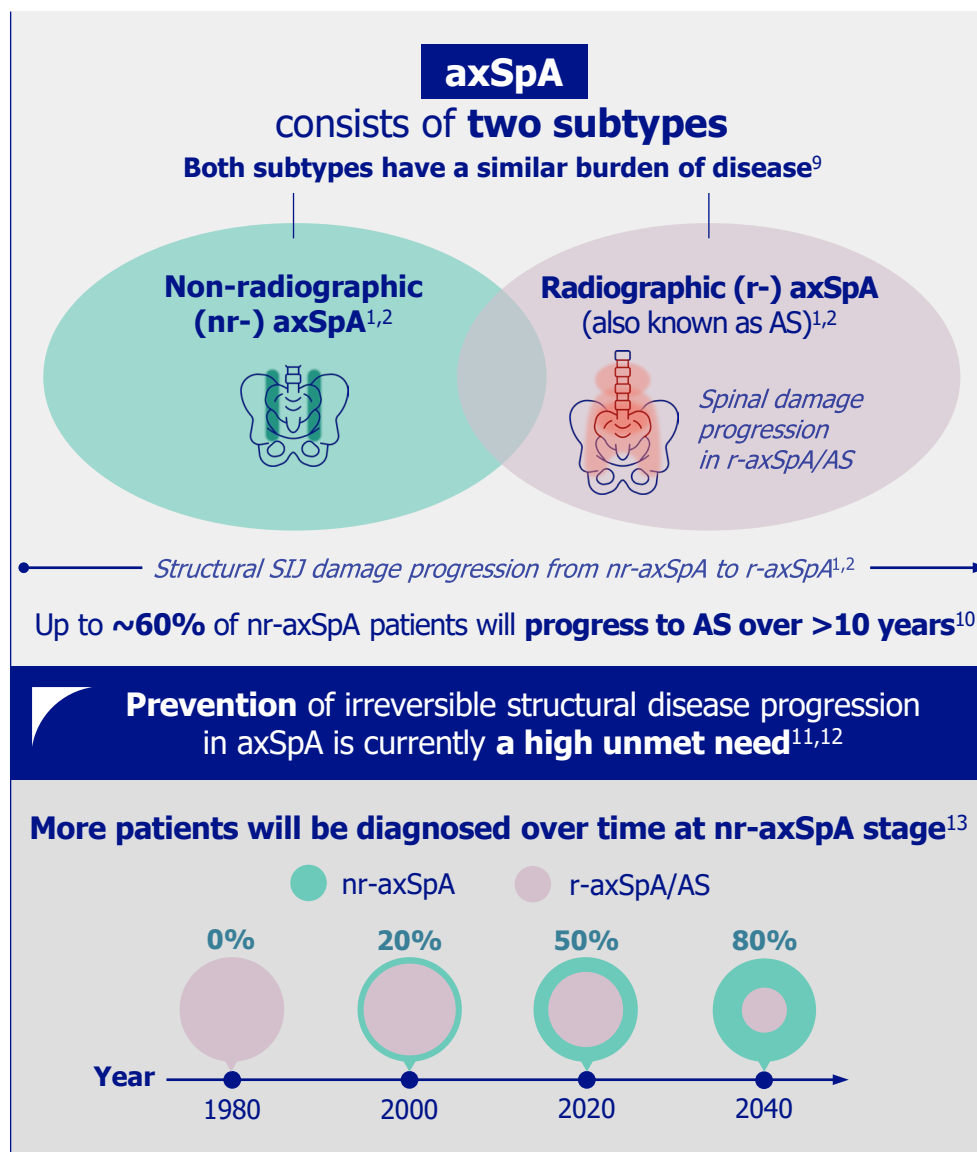
**Inflammatory bowel disease (IBD)**  
5–10%

**Psoriasis**  
~10–27%

**Dactylitis**  
~6%

**Peripheral arthritis**  
~40%

**Enthesitis**  
~25%



Patients experience disease onset **before the age of 45**<sup>14</sup>

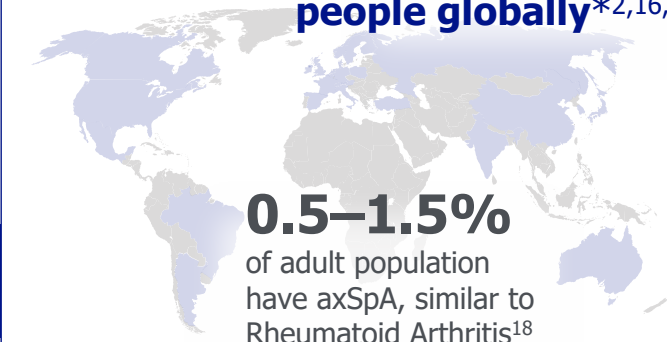
Average age of symptom onset is

**28 years**<sup>15</sup>

Patients typically have a delay in diagnosis of

**8.5 years**<sup>14</sup>

axSpA affects **~20 million people globally**\*<sup>2,16,17</sup>



There are **limited treatment options**

**1<sup>st</sup> line:** NSAIDs<sup>19</sup>

**2<sup>nd</sup>/3<sup>rd</sup> line:** TNF inhibitors, IL-17 inhibitors, and JAK inhibitors<sup>19</sup>

# Hidradenitis Suppurativa (HS)

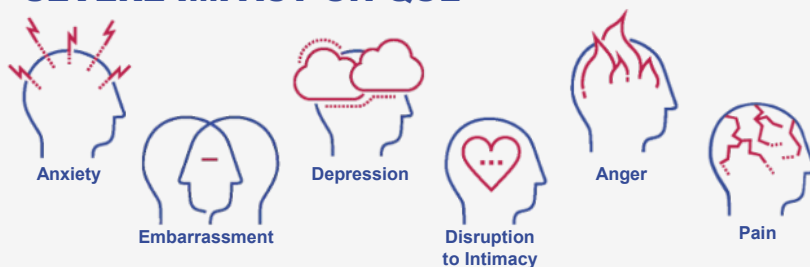
Under-recognized inflammatory disease with severe impact on people living with this disease



## Hidradenitis suppurativa (HS)

A debilitating, chronic, inflammatory skin disease of the hair follicle that presents with painful, inflamed lesions in the armpits, genital area, groin, buttocks/anus, and breasts resulting in painful, inflamed lesions, lumps, cysts, scarring

## SEVERE IMPACT ON QOL



## PREVALENCE

AFFECTS UP TO 1%



## DIAGNOSIS



### Not Understood

Significant delays in diagnosis ranging from

**3.7–23.7 yrs.**

Resulting in intense pain, progressive scarring, and psychological damage

**♀ 3x**

more **common** in **women** than men

## MULTIPLE CO-MORBIDITIES



Inflammatory Bowel Disease (IBD)



Acne Vulgaris (AV)



Diabetes



Axial Spondyloarthritis (axSpA)

### OTHER CO-MORBIDITIES

Psychological Disorders  
Metabolic Syndrome  
Squamous Cell Carcinoma  
Down Syndrome

Zouboulis et al, J Eur Acad Dermatol Venereol 2015;29:619-44; Alikhan et al, J Am Acad Dermatol 2019;81:76-90; Jemec GBE et al, N Engl J Med 2012;366:158-64; Garg A et al, JAMA Dermatol 2017;153:760-4; Phan et al. Biomedical Dermatology (2020) 4:2; Calao M et al, Plos One 2018;13:1-23; Canadian Hidradenitis Suppurativa Foundation. What is HS? <http://hsfoundation.ca/en/what-is-hs/>. Accessed 2020-03-26.; Amit et al. Journal of the American Academy of Dermatology, Volume 82, Issue 2, 366 – 376; Kluger N et al, Skin Appendage Disord 2017;3:20-7



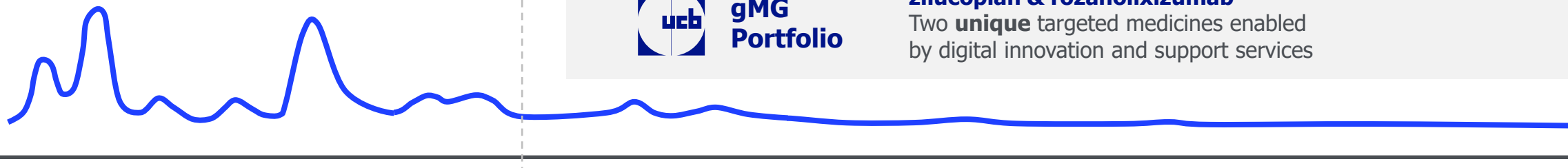
# Unique portfolio comprising two mechanisms of action poised to transform the Myasthenia Gravis landscape



**gMG  
Portfolio**

## **zilucoplan & rozanolixizumab**

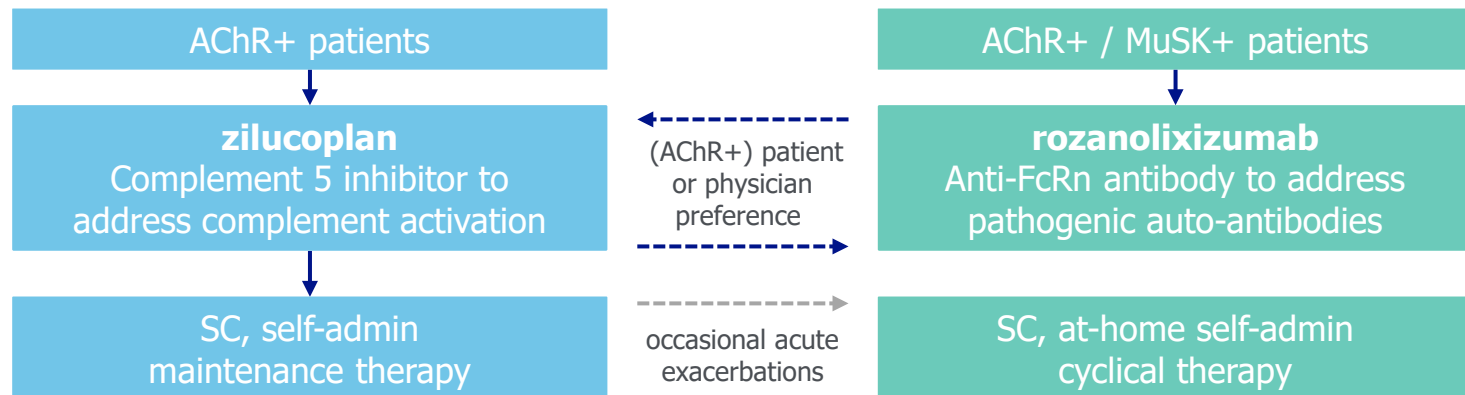
Two **unique** targeted medicines enabled by digital innovation and support services



### Current treatment options

- Many patients not well-controlled
- High level of disease and treatment burden

### Dual mechanisms of action approach to address individual needs of patients



### Treatment goals

- Fewer people experience exacerbations
- More symptom free days







Inspired by **patients.**  
Driven by **science.**

AChR+, acetylcholinesterase receptor positive; FcRn, neonatal Fc receptor; gMG, generalized myasthenia gravis; MOA, mechanism of action, MuSK+, muscle specific kinase positive; zilucoplan and rozanolixizumab are investigational products and are not approved for any indication by any regulatory authority in the world. Zilucoplan and rozanolixizumab require additional studies before any conclusions for safety and efficacy can be made.

UCB - FY results 2022, Feb 2023

# RYSTIGGO® (rozanolixizumab): Potential in Multiple IgG Autoantibody-Mediated Diseases With High Unmet Medical Need

	generalized Myasthenia Gravis (gMG)	Myelin oligodendrocyte glycoprotein (MOG)-antibody disease	Autoimmune encephalitis (AIE)	Severe fibromyalgia
	auto-antibodies targeting components of neuromuscular junction	auto-antibodies targeting MOG leading to inflammatory demyelination in the CNS	auto-antibodies targeting the LGI1 protein on healthy cells in the CNS leading to localized swelling and inflammation	Pathogenic IgG accumulation in dorsal root ganglia recently associated with <u>severe</u> fibromyalgia
	<ul style="list-style-type: none"> <li>muscle weakness (extremities, eyes, bulbar and respiratory symptoms)</li> <li>fatigue</li> </ul>	<ul style="list-style-type: none"> <li>monophasic or relapsing course of neurological dysfunction including optic neuritis (ON), transverse myelitis (TM), and acute disseminated encephalomyelitis (ADEM)</li> <li>temporary and residual permanent disability (in particular, blindness, reduced visual acuity and limited mobility, as well as residual permanent bladder issues, bowel and erectile dysfunction)</li> </ul>	<ul style="list-style-type: none"> <li>cognitive impairment</li> <li>seizures (including faciobrachial dystonic seizures, other focal seizures, and tonic-clonic seizures)</li> <li>hyponatremia</li> <li>sleep disorders</li> </ul>	<ul style="list-style-type: none"> <li>Chronic (&gt;3months) and widespread pain</li> <li>Hypersensitivity to pain stimuli</li> <li>Chronic fatigue</li> <li>Sleep disturbance</li> <li>Cognitive impairment</li> </ul>
	~ 10 - 45 cases / 100 000	~1 - 4 / 100 000	~ 0.7 / 100 000	~ 200 cases / 100 000 (diagnosed severe fibromyalgia)
	<ul style="list-style-type: none"> <li>Surgery (thymectomy)</li> <li>Steroids, steroid-sparing drugs</li> <li>Plasma exchange (PLEX)</li> <li>IV immunoglobulin (IVIg)</li> </ul>	<ul style="list-style-type: none"> <li>No approved therapy</li> <li>No formal treatment guidelines established</li> </ul>	<ul style="list-style-type: none"> <li>immunotherapy and symptomatic therapy including antiseizure medications</li> <li>PEX, IVIg</li> </ul>	<ul style="list-style-type: none"> <li>US: pregabalin, duloxetine and milnacipran</li> <li>JPN&amp;CHN : pregabalin</li> <li>EU: nil approved</li> <li><i>G7 off-label: antidepressants, ASMs, IVIg, PLEX</i></li> </ul>

Proprietary and Confidential Property of UCB



Inspired by patients.  
Driven by science.

CNS: central nervous system; IV: Intravenous; LGI1: leucine-rich-glioma inactivated-1; subQ: sub-cutaneous; ASM: anti-seizure medication; PLEX: plasma exchange; Rozanolixizumab is an investigational product and is not approved for any indication by any regulatory authority in the world. Rozanolixizumab requires additional studies before any conclusions for safety and efficacy can be made.

# Rozanolixizumab: Targeted Approach Recycling IgG

Transforming disease burden for patients



## HOW

**Blocking of FcRn receptor binding of plasma IgG<sup>1</sup>...**

... resulting in the attenuation of IgG recycling, and thus removal of IgG autoantibodies



## WHO

**Patients living with IgG-mediated autoimmune diseases**

Chronic diseases with unpredictable fluctuations and high treatment-associated burden (hospital setting, invasive)

**generalized  
myasthenia gravis  
(gMG)**

**Phase 3 positive  
results published at  
MGFA Meeting 2022\***

MG0003 / [NCT03971422](#)  
200 patients; 3 arms;  
(*rozanolixizumab* vs. placebo)  
MG-ADL Score @ Day 43

**autoimmune  
encephalitis  
(AIE)**

**Phase 2 started in  
Q3 2021**  
**Topline results H1  
2024**

AIE001 / [NCT04875975](#)  
68 patients; 2 arms;  
(*rozanolixizumab* vs. placebo)  
Seizure freedom for 25 weeks<sup>2</sup>

**myelin  
oligodendrocyte  
glycoprotein (MOG)-  
antibody disease**

**Phase 3 started in  
Q4 2021**  
**Topline results in H2  
2024**

MOG001 / [NCT05063163](#)  
104 patients; 2 arms  
(*rozanolixizumab* vs. placebo);  
Time from randomization to first  
independently centrally  
adjudicated relapse during the  
double-blind treatment period

**Severe fibromyalgia**

**Phase 2 started in Q4  
2022**  
**Topline results in H2  
2024**

FM0001 / [NCT05643794](#)  
60 patients; 3 arms;  
(*rozanolixizumab* vs. placebo);  
Brief Pain Inventory short form (BPI-  
SF) average interference score after  
12 weeks of treatment

\* Please copy and paste this address to see the abstracts as an active link is prohibited:  
<https://onlinelibrary.wiley.com/doi/10.1002/mus.27540>

Latest data can be found here:  
[Scientific Presentations, Abstracts,  
and Posters - Rozanolixizumab | UCB](#)



Inspired by **patients.**  
Driven by **science.**

<sup>1</sup>IgG: Immunoglobulin G; <sup>2</sup>seizure freedom is defined by 28 consecutive days of no seizures maintained until the end of the Treatment Period; rozanolixizumab is an investigational product and is not approved for any indication by any regulatory authority in the world. Rozanolixizumab requires additional studies before any conclusions for safety and efficacy can be made.

# Zilucoplan\* Clinical Development Programs

## generalized Myasthenia Gravis (gMG)

### Phase 3

[Positive topline results](#)  
[published Feb. 2022](#)

RAISE / [NCT04115293](#)  
174 patients  
2 arms (*zilucoplan* vs placebo)  
MG-ADL Score @ week 12

- Positive topline results show the Phase 3 RAISE zilucoplan trial met primary and all key secondary endpoints in adults with gMG
- The results show a favorable safety profile and good tolerability
- UCB plans to proceed with zilucoplan regulatory submissions later this year
- Results follow recent positive topline data from the Phase 3 MycarinG study investigating rozanolixizumab, a monoclonal antibody also being developed by UCB in the same indication
- These results are the latest in a series of positive phase 3 data announcements by the company across its product pipeline

Latest data can be found here:  
[Scientific Presentations, Abstracts,](#)  
[and Posters - Zilucoplan | UCB](#)

# Systemic Lupus Erythematosus (SLE)

## GLOBAL BURDEN OF LUPUS

Lupus is a chronic (long-term) disease that can cause inflammation and pain in any part of your body. As an autoimmune disease (meaning that your immune system attacks healthy tissue) instead, lupus most commonly affects: Skin, Joints, and Internal organs, like your kidneys and heart

(Source: Lupus Foundation of America)

### COMMON SYMPTOMS



Pain or swelling in the joints



Extreme fatigue (feeling tired all the time)



Sensitivity to sun light or fluorescent light



Chest pain when breathing deeply



Low grade fevers

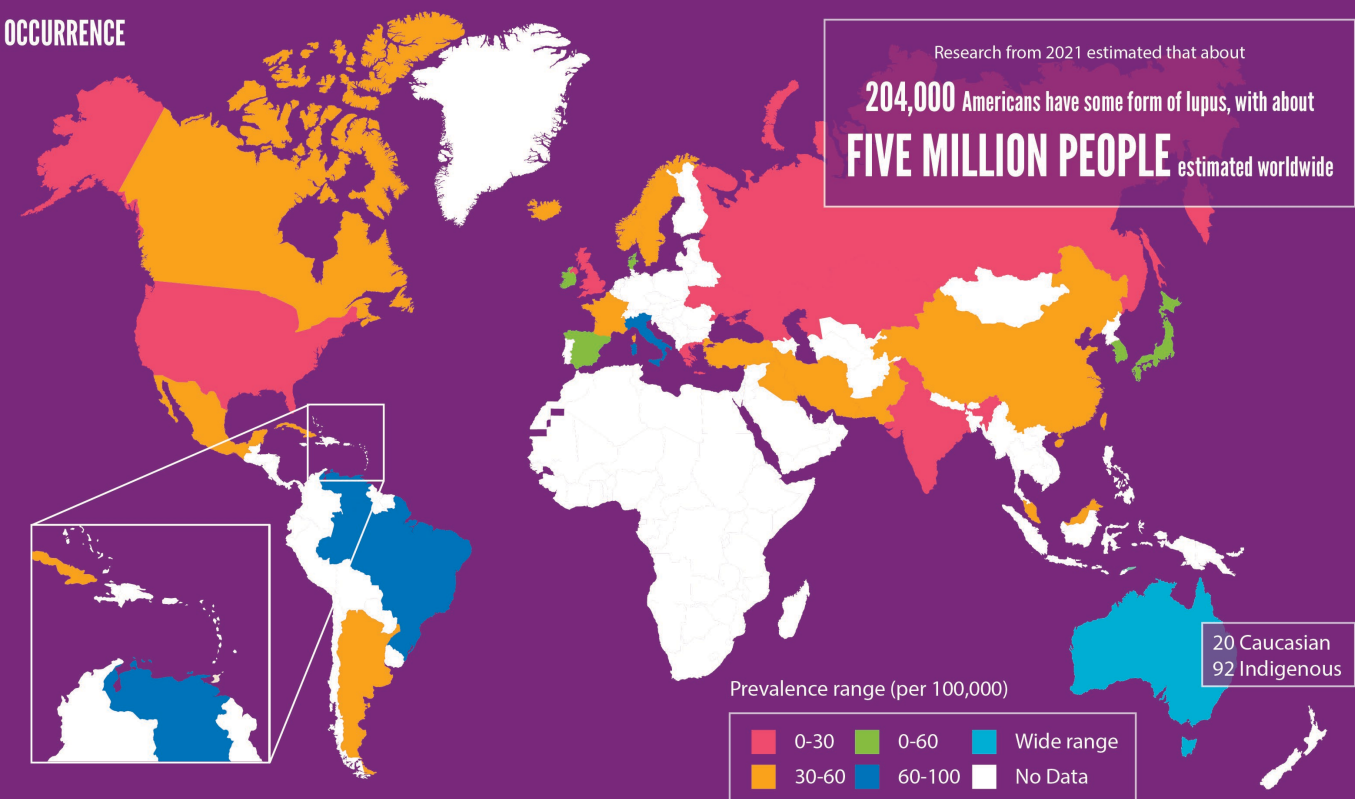


Swelling in the hands, feet, or around the eyes



Headaches

### OCCURRENCE



# Systemic Lupus Erythematosus (SLE)

Inflammation in many organ systems simultaneously or sequentially

More about lupus on <https://www.ucb.com/disease-areas/Lupus>;  
<sup>1</sup>Source: <https://www.lupus.org/resources/what-is-lupus> accessed 19 November 2020; <sup>2</sup>African American, Hispanic and Native American. Women; *dapirolizumab pegol* is an investigational product and is not approved for any indication by any regulatory authority in the world. *dapirolizumab pegol* requires additional studies before any conclusions for safety and efficacy can be made.

**Systemic Lupus Erythematosus (SLE)** is a disease of **flares and remissions**, with symptoms that can include:



**Symptoms vary by individual**  
Range from fatigue, joint pain, butterfly shaped skin rash across the face, fever, weight/ hair loss, and photosensitivity

**Systemic Lupus Erythematosus (SLE)** affects more than 5 million people globally,

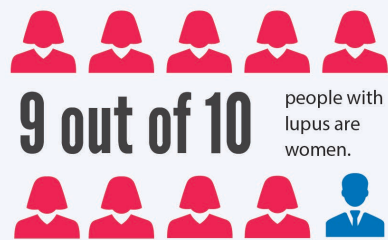


**Lupus predominantly affects women<sup>1</sup>**  
• 80-90% of cases between 15 – 45  
• Disproportionately affects women of colour<sup>2</sup>

**Opportunity to focus on the underserved patient population**  
• minorities who often have more severe disease  
• underrepresented in clinical research  
• may experience unique challenges accessing health care

## EPIDEMIOLOGY

Anyone can develop lupus. But certain people are at higher risk for lupus, including:



Women Ages 15 to 44

## LIFE EXPECTANCY



It is believed that between **10-15% OF PEOPLE WITH LUPUS** will die prematurely due to direct or indirect effects of the disease and its treatment.

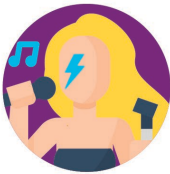
However, due to improved diagnosis and disease management, most people with the disease will go on to live a normal life span.

(Source: Lupus Foundation of America)



## CELEBRITIES

According to Wonderwall, celebrities with lupus include:



LADY GAGA



SELENA GOMEZ



SEAL

## CERTAIN RACIAL OR ETHNIC GROUPS – INCLUDING PEOPLE WHO ARE

African American | Asian American | Hispanic/Latino  
Native American | Pacific Islander



People who have an immediate family member (such as parents or siblings) with lupus or another autoimmune disease

## 1 IN 3 LUPUS PATIENTS

have another autoimmune disease



(Source: Lupus Foundation of America)



# Dapirolizumab Pegol Phase 3 Clinical Development Program

50/50 partnership with Biogen; topline results of 1<sup>st</sup> Phase 3 study mid-year 2024

**PHOENYCS GO** (SL0043)  
[NCT04294667](#)  
**312 patients**  
1 dosing regimen (dose not disclosed) vs. placebo



**Primary endpoint: BICLA response @ week 48**  
To evaluate the ability of DZP as an add-on treatment to SOC medication to achieve Clinically relevant long-term improvement of moderate to severe disease activity.

# Partnership With Novartis Leverages UCB Sciences

Sharing high-risk, high-reward, and investments needed for disease-modifying therapies in **Parkinson's disease**

**10m** people are living with Parkinson's Disease (PD) worldwide<sup>1</sup>

## UCB0599

Potential first-in-class, small molecule, alpha-synuclein, misfolding inhibitor

**Partnered with Novartis**  
(December 2021)

## High unmet need given lack of disease-modifying therapies

UCB and Novartis have entered into an agreement<sup>2</sup>

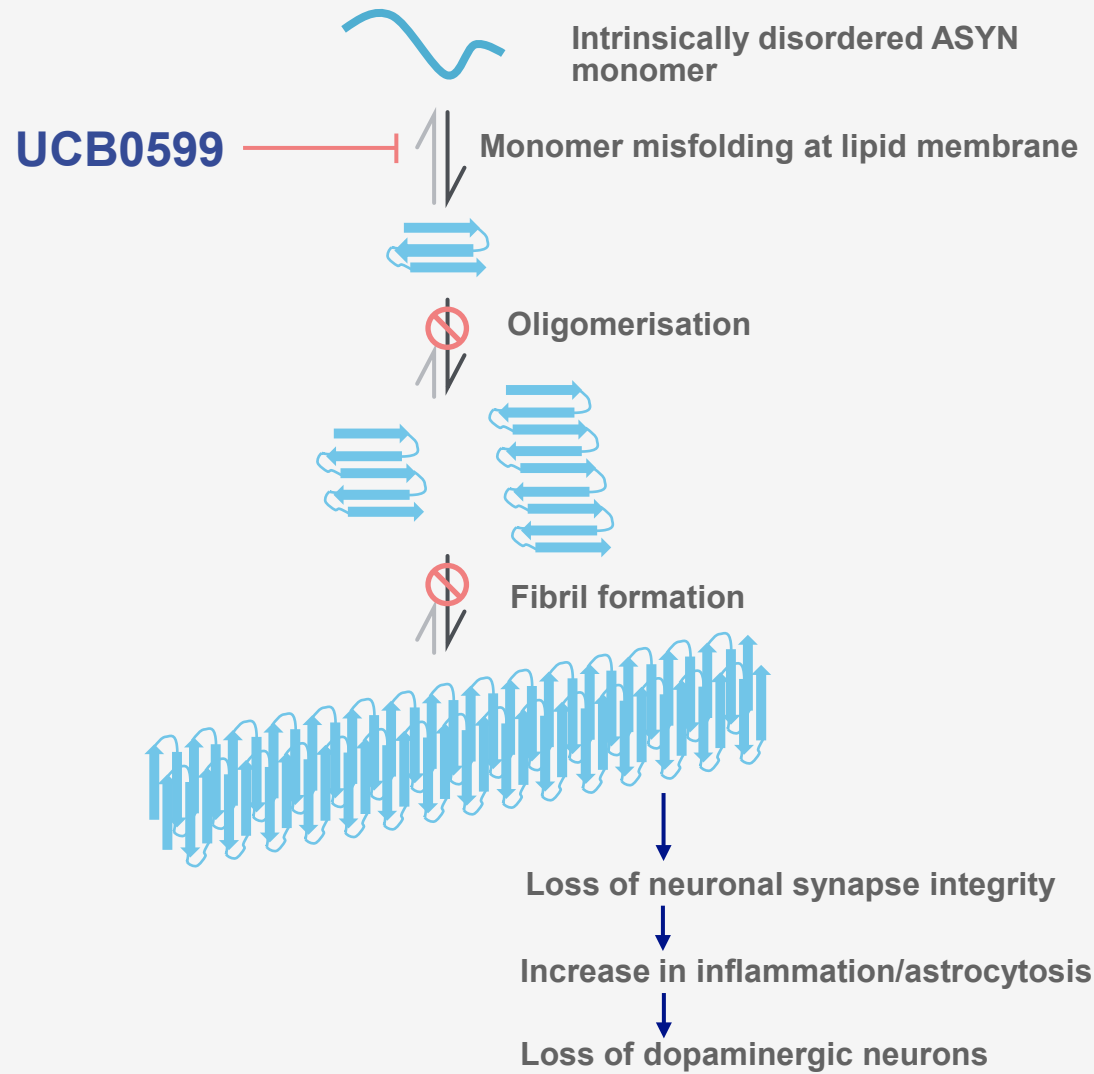
FOR... **UCB0599**  
(alpha-synuclein misfolding inhibitor, in Phase 2)

## Co-development and co-commercialization partnership:

- UCB received upfront payment (US\$150m) and is eligible to receive further potential payments with a total consideration approaching US\$1.5 bn<sup>3</sup>
- If approved, commercial responsibilities will be split, with UCB being the marketing authorization holder and commercial lead in Europe and Japan, and Novartis in the US and all other territories



# UCB0599 is an Oral Small Molecule Inhibitor of ASYN Misfolding



- UCB0599 is an oral small molecule that binds to ASYN early in the pathological aggregation process<sup>1,2</sup>
- UCB0599 is thought to prevent the initial misfolding of ASYN that leads to fibril formation and consequent progression of PD<sup>1-5</sup>
- A Phase 2 study is underway to evaluate the efficacy of UCB0599 in slowing disease progression in patients with early-stage Parkinson's disease (ORCHESTRA study; PD0053; NCT04658186)<sup>6-8</sup>

# A Phase 2, Proof-Of-Concept Study of UCB0599 in Early Parkinson's Disease (The Orchestra Study; PD0053) is Underway

NCT04658186<sup>1</sup> / EudraCT 2020-003265-19<sup>2</sup>



## Patients<sup>1</sup>

- Participants will be randomized to receive either a predefined high or low dosage of UCB05099 or a placebo dosage.
- Adults (aged 40–75 years) with confirmed PD within 2 years of baseline visit
- Bradykinesia plus muscular rigidity and/or resting tremor
- Modified Hoehn and Yahr stage  $\leq 2$  at screening
- No prior medication for PD motor symptoms or likely need for symptomatic treatment within 6 months
- Has not previously participated in disease-modifying treatment studies for neurodegenerative diseases



## Primary endpoint<sup>1</sup>

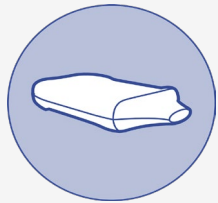
- MDS-UPDRS Parts I-III sum score (BL–18 months)

## Secondary endpoints<sup>1</sup>

- Clinical symptoms
  - Individual MDS-UPDRS subscale scores (BL–18 months)
  - Time to worsening of disease on MDS-UPDRS Part III scale (BL–18 months)
  - Change in MoCA (screening–18 months)
  - Time to start symptomatic treatment (BL–18 months)
  - Number of patients receiving symptomatic treatment (BL–18 months)
- Neurodegeneration
  - Change in DaT-SPECT mean striatum SBR (screening–18 months)
- Safety: Incidence of TEAEs and SAEs; TEAEs leading to withdrawal (BL–19 months)

# Developing STACCATO® *alprazolam* for Rapid Cessation of an Ongoing Seizure in Patients With Stereotypical Prolonged Seizures

STACCATO® *alprazolam* is a drug-device combination for inhalation of alprazolam, administered by a patient or care giver in an out-patient setting, to rapidly terminate (within 90 seconds) an ongoing seizure.



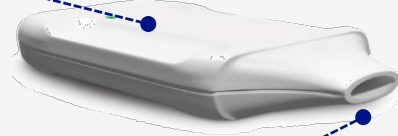
**STACCATO® delivery technology:**  
FDA- and EMA-approved<sup>1,2</sup>



***alprazolam*:**  
a well-known benzodiazepine<sup>3</sup>



**Delivers *alprazolam***  
with a single, normal breath, to potentially terminate an ongoing seizure in <90 seconds<sup>2</sup>



- Potential to deliver on-demand, rapid seizure termination for 20 - 30% of people living with epilepsy
- The STACCATO® system rapidly vaporizes alprazolam to form an aerosol, with particle size designed for deep lung delivery to produce a rapid, systemic effect.
- Phase 2b clinical trial completed (end 2019); Phase 3 started Q4 2021; topline results in H1 2024
- UCB to perform further clinical development, regulatory filings, launch and commercialization

STACCATO® *alprazolam* is an investigational product and is not approved for any indication by any regulatory authority in the world. STACCATO® *alprazolam* requires additional studies before any conclusions for safety and efficacy can be made.

Image is for illustrative purposes only.

EMA, European Medicines Agency; FDA Food and Drug Administration.

1. Alexza Pharmaceuticals. Staccato® One Breath Technology. Available at: <http://staccatoobt.com> (accessed November 2020); 2. UCB. Data on file. Engage Therapeutics.

It's About Time: Finding The Power to Terminate Epileptic Seizures. April 2020. Confidential Overview; 3. French JA, et al. *Epilepsia* 2019;60:1602–609.

# STACCATO® *alprazolam* Phase 3 Clinical Development Program

STACCATO® *alprazolam* is an orally inhaled investigational therapy with the potential to rapidly terminate an ongoing seizure. Topline results expected during H1 2024.

**EP0162 / NCT05077904**

*A Study to Test the Efficacy and Safety of STACCATO® *alprazolam* in Study Participants 12 Years of Age and Older With Stereotypical Prolonged Seizures*

Maximum of 250 participants randomized to a single dose of STACCATO® *alprazolam* or placebo

Primary outcome measures:

- 1. Treatment success for the treated seizure within 90 seconds after investigational medicinal product administration
- 2. Treatment success for the treated seizure with no recurrence after 2 hours

**EP0165 / NCT05076617**

*A Study to Test the Safety and Tolerability of STACCATO® *alprazolam* in Study Participants 12 Years of Age and Older With Stereotypical Prolonged Seizures*

Approximately 250 participants will be treated with STACCATO® *alprazolam*

Primary Safety objective:

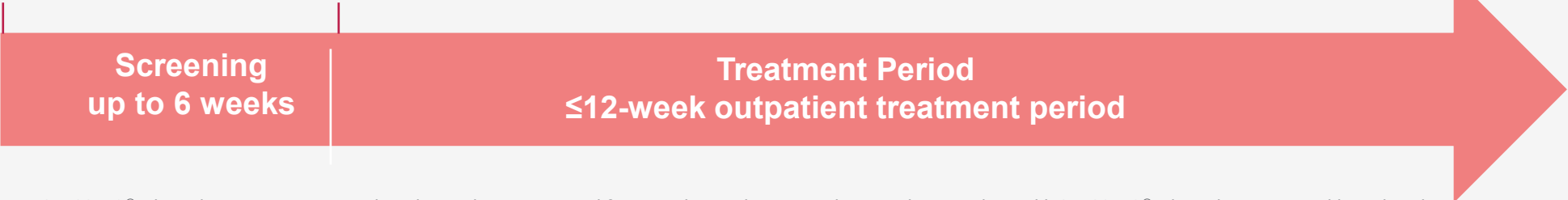
Frequency of adverse events (all adverse events, serious and those leading to discontinuation)

**EP0162 Study Periods:**

Screening Visit

Randomization

End-of-Study Visit

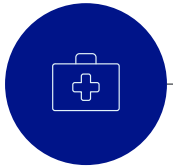


# Fenfluramine Offers New Hope for Individuals and Families Living with Challenging Developmental Epileptic Encephalopathies (DEEs)

Dravet Syndrome (DS)	Lennox-Gastaut Syndrome (LGS)	CDKL5 Deficiency Disorder (CDD)
<b>~12k - 15k</b> US, EU, JPN prevalence	<b>~60k - 100k</b> US, EU, JPN prevalence	<b>~8k - 10k</b> US, EU, JPN prevalence
<b>&gt;80%</b> of patients remain uncontrolled on existing AED regimens  Premature childhood mortality, primarily SUDEP, of <b>~20%</b>	Vast majority of patients on multi-drug treatment regimens of <b>2-5</b> ASMs as they experience multiple types of seizures, that change in type and frequency throughout life  Higher risk of status epilepticus and sudden death	Nearly three-quarters of individuals with CDD take 2 or more ASMs simultaneously  <b>&gt;70%</b> of patients experience daily seizures  High risk of SUDEP
<b>Foundational Therapy</b>  Profound impact on seizures exceeding expectations of what could be possible in DS	<b>The New Next Option</b>  Proven efficacy on LGS's most challenging seizures proven efficacy as an adjunctive therapy	<b>Phase 3 trial ongoing, topline results H2 2024</b>  Novel, complementary MOA with demonstrated impact on refractory seizure disorders

# Fenfluramine Creating Meaningful Value to Patients & HCPs across Dravet & Lennox-Gastaut Syndrome

## Dravet Syndrome



**Largest reduction in seizures associated with Dravet Syndrome** – 1st or 2nd line recommendation in International DS Consensus.<sup>14</sup>



**Dramatically lowers seizures leading to SUDEP mortality compared to previous standard of care** – All-cause and SUDEP mortality rate was 1.7 per 1000 person-years compared to 9.3 related to SUDEP alone for persons with DS receiving standard-of-care.<sup>4</sup>

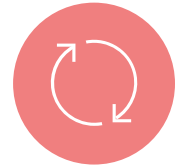


**Improved everyday executive functioning**  
Children and young adults who experienced a significant ( $\geq 50\%$ ) reduction of seizure frequency (78%) also showed improvement in emotional and cognitive regulation.<sup>6</sup>

## Lennox-Gastaut Syndrome



**Profound seizure reduction in highest refractory population studied** sustained for up to 15 months in added to current standard of care.<sup>4,13</sup>



**Substantial improvement in LGS-related cognitive and functional deficits** – emotion, behavior, cognition and QoL.<sup>15</sup>



**Significant improvement in tonic-clonic seizures** a primary risk factor for SUDEP.<sup>12,13</sup>



Inspired by patients.  
Driven by science.

1. Sourbron J et al. Front Pharmacol 2017;8:191; 2. Baumann MH et al. Neuropsychopharmacology 2014;39:1355–65; 3. Fenfluramine Summary of Product Characteristics (SmPC); 4. Knupp KG et al. Epilepsia. 2022;00:1–13; 5. Martin P et al. Epilepsy & Behavior. 127 (2022) 108526; 6. Bishop KI et al. Epilepsy & Behavior 121 (2021) 108024; 7. Bishop K et al. American Academy of Neurology (AAN); April 17–22 2021; 8. Lagae L et al. Lancet 2020;394:2243–54; 9. Nabbout R et al. JAMA Neurol 2020;77:300–08; 10. Sullivan J et al. Epilepsia 2020;61:2396–2404; 11. Lai W et al. Epilepsia 2020;61:2386–95; 12. Cross JH et al. Seizure 2021;39:154–159; 13. Knupp et al. JAMA Neurol. 2022;79(6):554–564; 14. Wirrell et al. Epilepsia 2022; 63(7):1761–1777; 15. Jensen MP Epilepsy Research 185 (2022) 106976; 16. Strzelczyk et al. Epilepsia. 2021; 62(10):2518–2527; 17. Specchio N Epilepsia 2020;61(11):2405–2414.



# CDKL5 Deficiency Disorder (CDD)

An ultra-rare, severe developmental epileptic encephalopathy with onset in early infancy, high unmet need, and limited treatment options <sup>1,2,3</sup>

## Cyclin-dependent kinase like-5 (CDKL5) deficiency disorder (CDD)

CDD can manifest in a broad, complex range of clinical symptoms and severity.<sup>3</sup> The hallmarks are early-onset epilepsy and neurodevelopmental delay impacting cognitive, motor, speech, and visual function. In 90% of patients, early onset of seizures are observed in the first year of life, usually at six weeks of age.<sup>4</sup> The highly refractory nature of epilepsy in CDD puts many individuals with CDD at **high risk for SUDEP** (Sudden Unexpected Death in Epilepsy).<sup>10</sup>

## DIAGNOSIS

### Not Understood

The cause of CDD is not known at this time. CDKL5 gene mutations have been found in children diagnosed with Infantile Spasms, West Syndrome, Lennox-Gastaut syndrome, Rett Syndrome, cerebral palsy, autism, and intractable epilepsy of unknown origin.<sup>4</sup>



## CDD by the Numbers

- 2.36 estimated incidence per 100,000 live births
- <1,000 individuals with CDD in the world are known to patient registries
- >80% of children experience daily seizures
- 6 weeks median age at onset of seizures, 90% by 12 months of age <sup>5,7,9</sup>

**♀ 4x**  
more common in girls than boys

## Types of Seizures

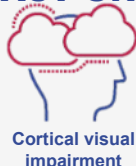
- Most common initial seizure type at onset was tonic seizures, followed by infantile (or epileptic) spasms and generalized tonic-clonic seizures, and focal seizures
- Over time, epileptic spasms, followed by tonic, myoclonic, and then generalized tonic-clonic are the most common seizure types

## SEVERE IMPACT ON QOL



Seizures

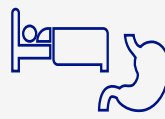
- 56% of individuals have between one and five seizures per day
- 15% of individuals have more than five per day<sup>5</sup>



Cortical visual impairment



Gross motor, fine motor, and communication skills are extremely impaired



Sleep and gastrointestinal disturbances reported in 87% of patients



Respiratory symptoms like aspiration and lower respiratory tract infections



Musculoskeletal problems, such as scoliosis, can also occur<sup>5</sup>

## Impact on Caregivers

- Increasing child sleep disturbances also have a negative impact on caregiver emotional wellbeing<sup>5</sup>
- Caregivers often give up their careers in order to provide their children a wide range of treatment and multidisciplinary care to manage the symptoms of CDD<sup>7</sup>
- The broad range of symptoms and health conditions, diagnosis, and access to syndrome-specific family support can be considerably delayed, adversely affecting caregiver wellbeing and possibly also the family quality of life<sup>8</sup>

# Bepranemab (UCB0107, Anti-Tau Antibody)

## Rationale for development

- In July 2020, UCB entered a worldwide, exclusive license agreement with Roche and Genentech (a member of the Roche group) for the global development and commercialisation of *bepranemab* in Alzheimer's disease (AD)
- UCB will fund and perform a proof-of-concept study in AD and upon availability of the results Genentech will progress with the development of *bepranemab* or return full rights back to UCB



In AD, amyloid  $\beta$  peptides form plaques and **pathological tau** proteins misfold and form intracellular aggregates, which accumulate within the brain leading to neurodegeneration.<sup>1,2</sup> Clinical progression is closely linked to the **progressive spread of tau pathology** throughout the brain.<sup>1</sup>



Pathological **tau aggregates** or '**seeds**' can spread between neurons propagating disease<sup>3,4</sup>



**Bepranemab** is a fully humanised, full-length IgG4 **monoclonal anti-tau antibody**<sup>5</sup> that is currently under investigation for the treatment of AD<sup>6</sup>



**Bepranemab** aims to **reduce the progression of disease** by binding extracellular pathological tau and **slowing down or halting the spread of tau neuropathology**<sup>1,3,5</sup>



# Together (AH0003): Overview and Study Design

A Phase 2 study in people living with AD – Recruitment for this study was completed, topline results Q4 2024



## Objective

To evaluate the efficacy, safety, and tolerability of *bepranemab* in people with prodromal and mild AD<sup>1</sup>

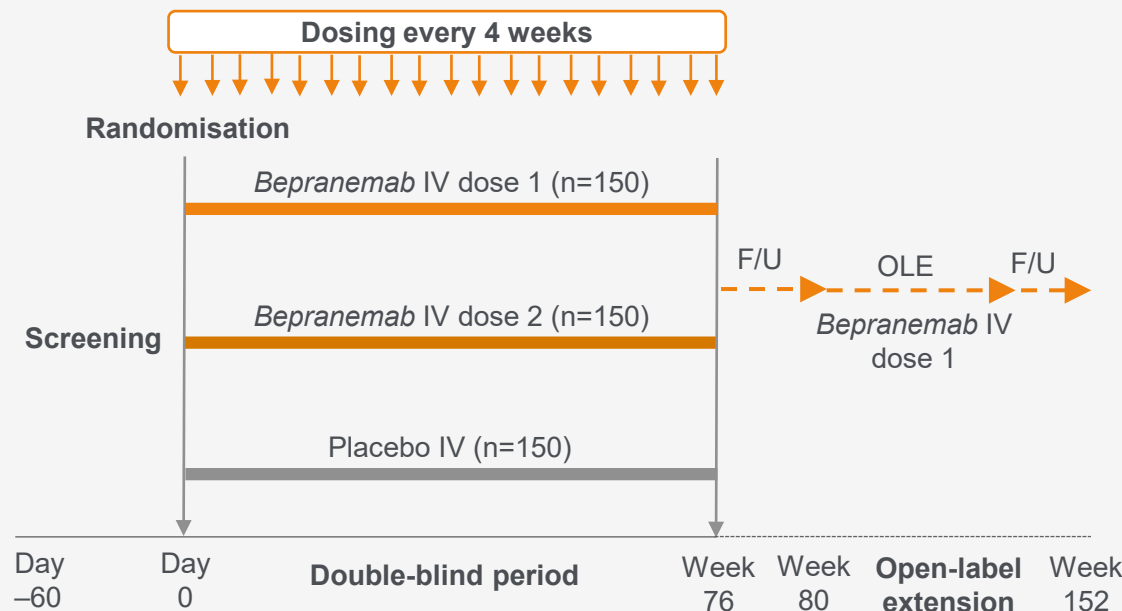


## Inclusion criteria

- Prodromal or mild AD\*
- MMSE score  $\geq 20$  to  $\leq 30$
- A $\beta$  biomarker-positive (CSF or PET)
- If receiving an AD symptomatic treatment, must be stable for at least 3 months prior to screening



## Design



## Endpoints

### Primary:

- Change from baseline in CDR-SB at Week 80

### Key secondary:

- Safety and tolerability of *bepranemab*
- Effect on tau PET imaging at Wk 56 and Wk 80
- Change from baseline in cognitive clinical measures
- Pharmacokinetics



Inspired by patients.  
Driven by science.

\*Anticipated enrolled population will be approximately 40% with prodromal/MCI due to AD (n=180), and 60% with mild AD (n=270). A $\beta$ , amyloid beta; AD, Alzheimer's disease; CDR-SB, Clinical Dementia Rating scale Sum of Boxes; CSF, cerebrospinal fluid; F/U, follow-up; MCI, mild cognitive impairment; MMSE, Mini Mental State Examination; OLE, open-label extension; PET, positron emission tomography. 1. NCT04867616. Available at: <https://clinicaltrials.gov/ct2/show/NCT04867616> (Accessed September 2021); 2. UCB. Data on file. Protocol AH0003, 2020.

# Thymidine Kinase 2 deficiency

An ultra-rare debilitating and life-threatening (often fatal) genetic mitochondrial disorder

## Thymidine Kinase 2 deficiency (TK2d)

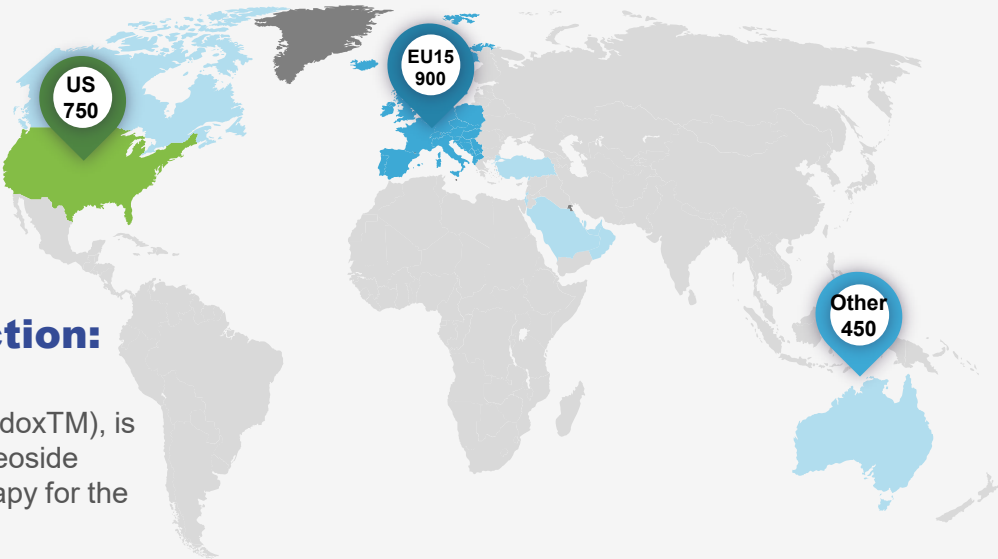
Is a rare, inherited, debilitating, and life-threatening mitochondrial disorder that causes severe and progressive muscle weakness. Patients lose the ability to walk, eat and breathe independently.

## Treatment:

There are no medicinal products approved for the treatment of Tk2d. Standard of Care is limited to supportive and palliative care aimed at preserving motor functions and preventing respiratory failure.

## PREVALENCE

There are an estimated ~2,100 TK2d patients in the targeted geographies<sup>1</sup>



## Mechanism of Action:

doxecitine and doxribtimine (doxTM), is an investigational deoxynucleoside substrate enhancement therapy for the treatment of TK2d

### Management Goals



### Infants

- Extremely poor prognosis and often fatal within a few years
- Require palliative care such as mechanical ventilation, feeding tubes and sedation
- Psychological support for parents



### Children

- Ultimate goal is to prolong life to help reach developmental milestones (e.g. able to sit up, crawl, talk, walk)
- Ensure adequate respiratory support (if/when needed)
- Support psychological development



### Adults

- Ultimate goal is to maintain independence for as long as possible
- Preserve muscle and respiratory function
- Ensure adequate respiratory support (if/when needed)
- Provide psychological support when needed (depression and anxiety very common)

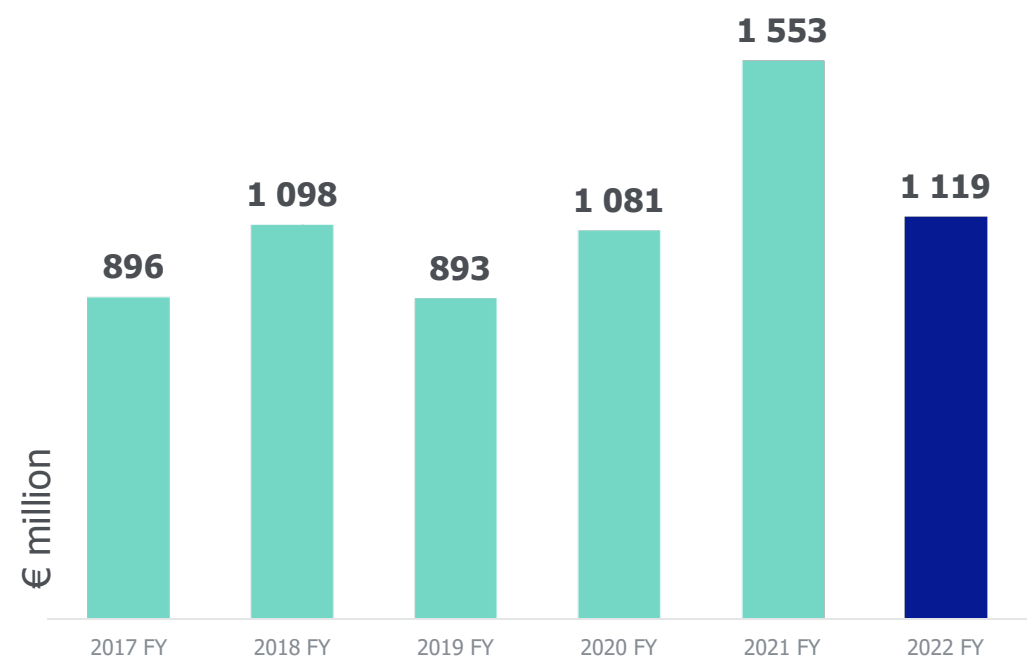


Inspired by **patients.**  
Driven by **science.**

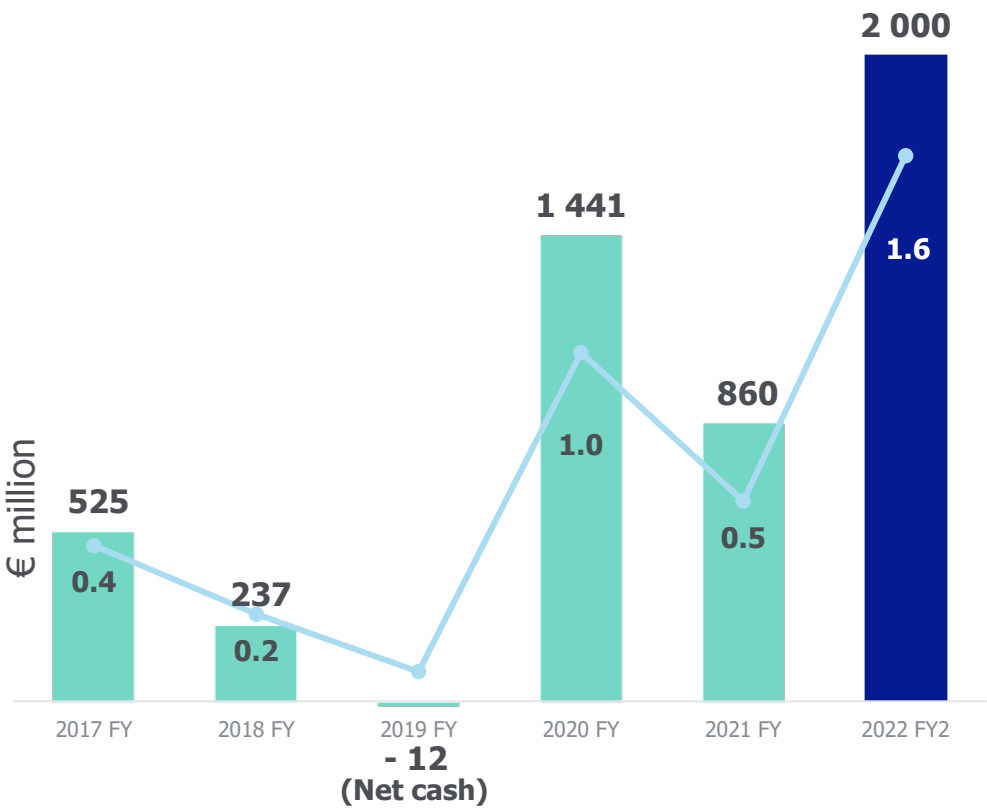
1. Zogenix epidemiology research 2018 and 2021

# Solid Cash Flow

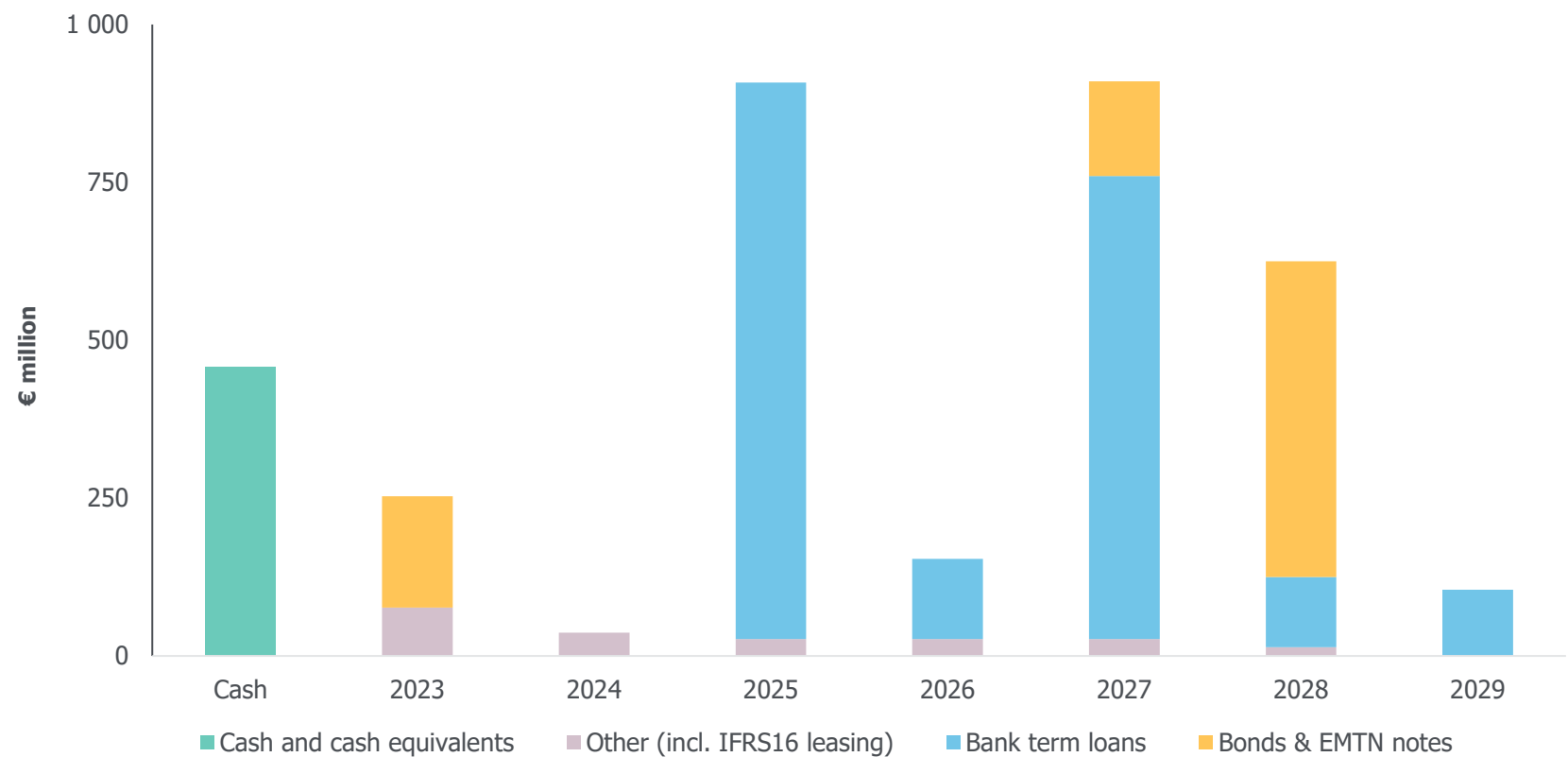
Cash flow from continuing operations



Net debt / adjusted EBITDA ratio

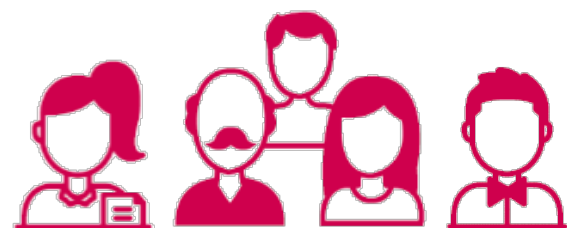


# Debt Maturity Schedule (as of 30 June 2023, € million)

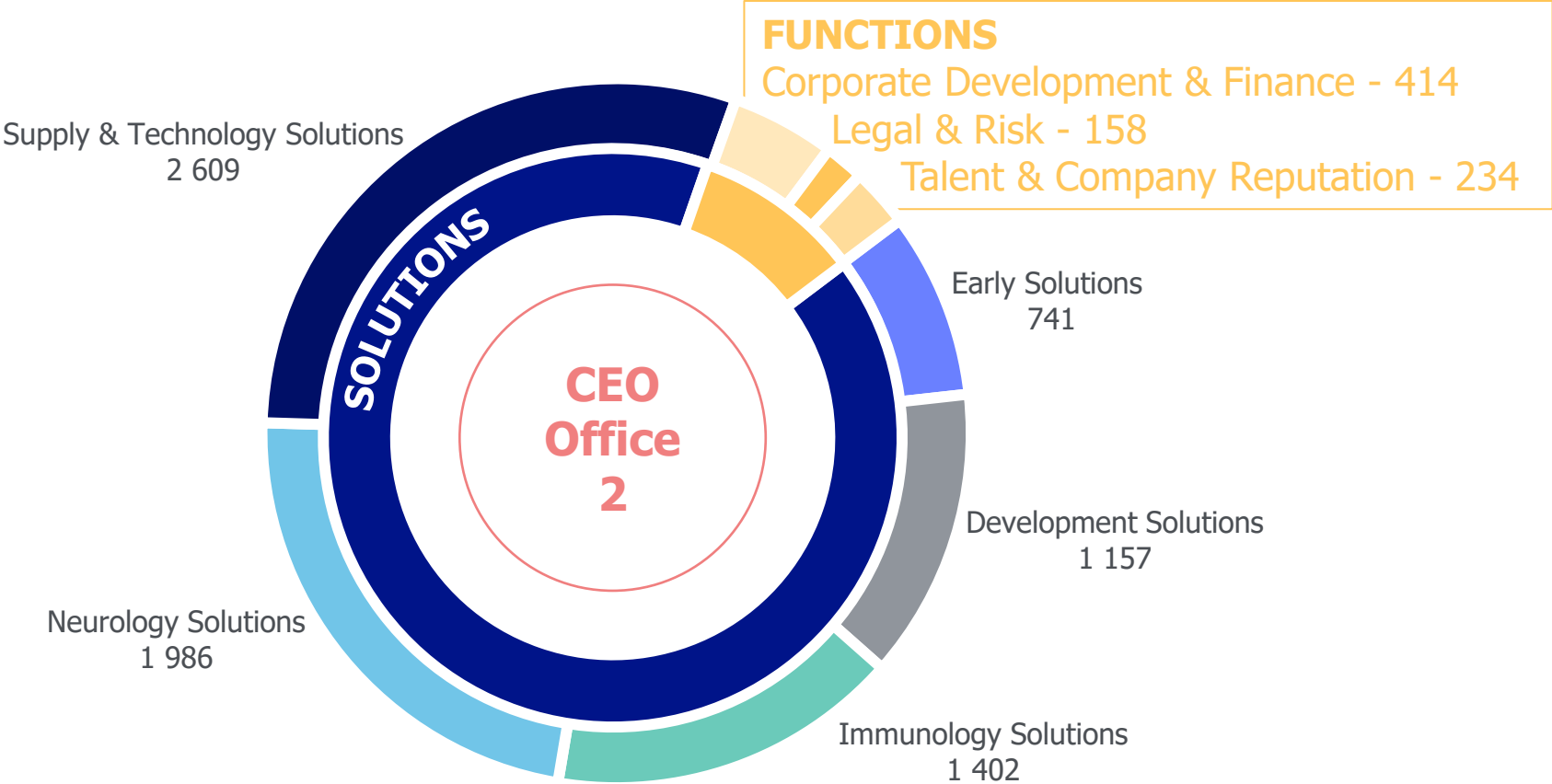


# UCB's Organization

Our people are key to deliver on our ambition

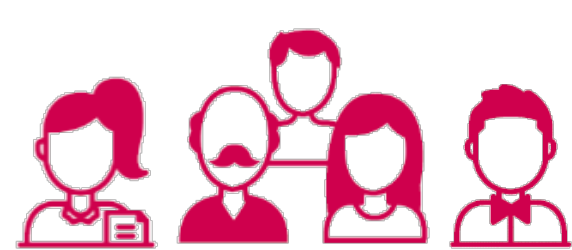


**~8 700\***  
employees worldwide



# UCB Today: A Global Player

Presence in 36 countries complemented by a robust network of partners



**~8 700\***  
employees worldwide



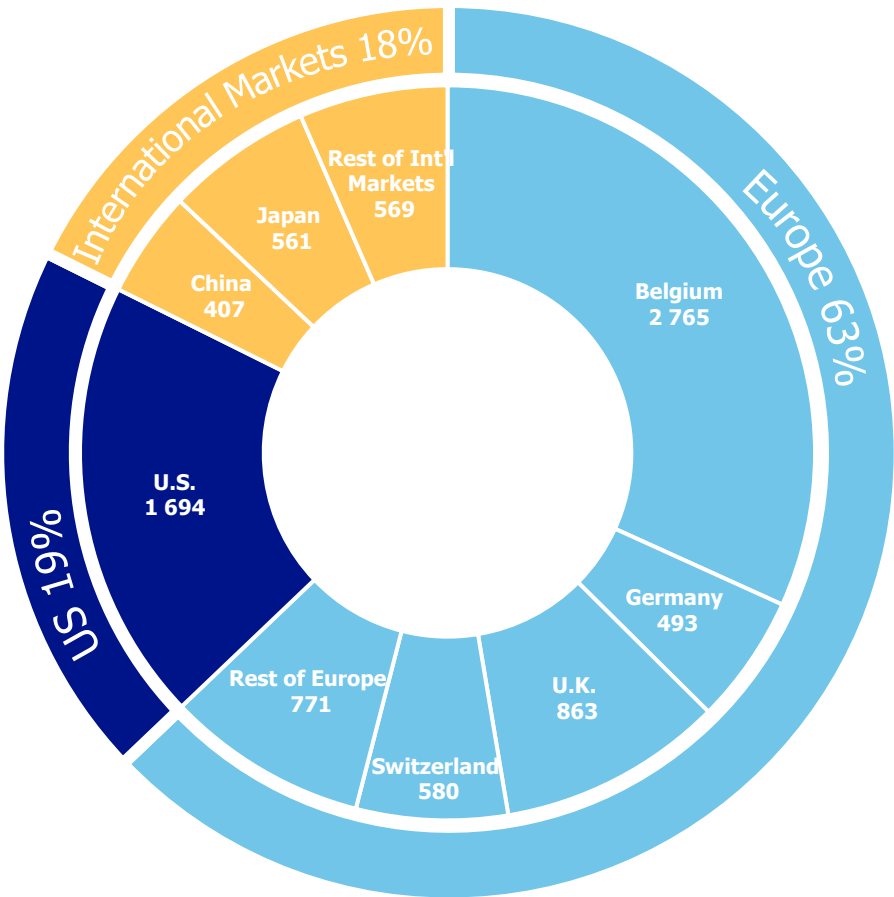
**51/49**  
Women / Men



**1 061**  
New colleagues



**10.9%**  
Employee turnover



# Japan Market Environment for Innovation

Large specialty and biologics market, early and secured access, and guaranteed market exclusivity

## Second Largest Market for Specialty and Biologics

Specialty      Biologics  
€ 15.6 bn    € 10.7 bn    >>>    2<sup>nd</sup>  
(2022 Apr-Sep)    (2022 Apr-Sep)    Largest after US

IQVIA Japan "Pharma Market Insights 2022 Winter"

## Early and Secured Access

- **Priority review/conditional-approval programs** for high unmet needs drugs with innovation
- Universal health insurance coverage and **secured reimbursement after 3 months from regulatory approval** with pricing scheme to reflect innovation

## Guaranteed 8 - 10 Years of Exclusivity for New Chemical Entities

- Market exclusivity granted during Post-Marketing Surveillance period for NMEs regardless of patent protection

**8 yrs** for non-orphan

**10 yrs** for orphan

## UCB in Japan

### BIMZELX®

- Feb 2021 Submission for Psoriasis
- Jan 2022 Regulatory Approval
- Apr 2022 Launch

### FINTEPLA®

- Dec 2021 Submission for Dravet Syndrome
- Sep 2022 Regulatory Approval
- Nov 2022 Launch
- bimekizumab / PSA / nr-axSpA / AS submissions in Q1 2023, HS planned in Q4 2023
- rozanolixizumab / gMG submission in Q1 2023
- fenfluramine / LGS submission planned Q3 2023
- brivaracetam submission planned Q3 2023

# UCB Japan - Organization Evolution Driving Growth

Evolution in organization capability and new working model

## Growth in Size and Diversity

# Employees (as of Dec 2022)

**561** 6.4% of Global UCB  
x1.7 in 5 yrs

% Female Manager (as of Sep 2022)

**20%** vs. industry average 14%  
x1.5 in 1.5 yrs  
33% of newly hired managers Oct 2021 – Sep 2022 was female

## Transformation to Solo Business

Shift **from partnering to solo business** started in 2020

End-to-end **capability and business process** established

- Sales and Marketing
- Manufacturing and Supply Chain Management
- Distribution
- IT infrastructure
- Data and Analytics

## New Model for COVID-19

Upgraded customer engagement and field productivity with **omnichannel**

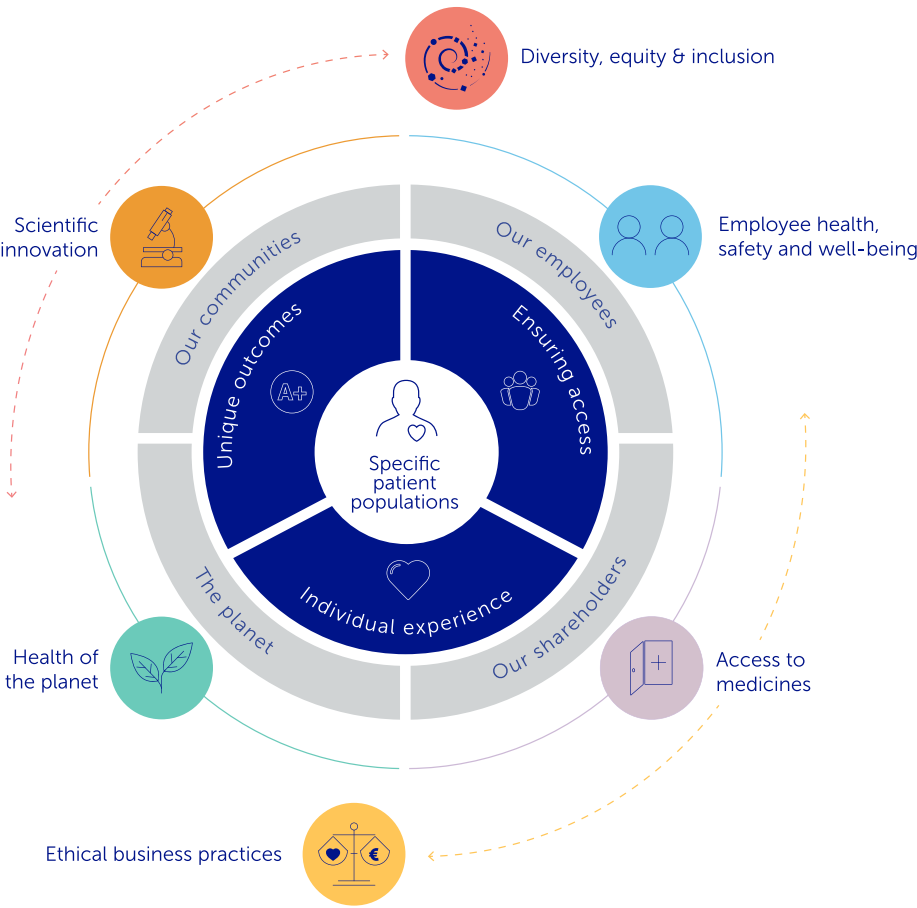
- Reinforced digital channels
- Customer-experience based approach
- Agile operation model

**Office renovation** to enhance new ways of working

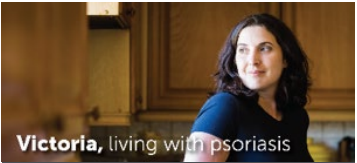
- Hybrid of face-to-face and remote working
- Cross-functional interaction



# We See Sustainability as an Approach for Business Growth and Societal Impact



## Our goals



Victoria, living with psoriasis

### Value for patients

We aim to bring to patients **differentiated solutions with higher predictability of response and in 2030, all patients who need these solutions shall have access to them in a way which is viable for patients, society and UCB.**



Véronique, UCB

### Value for people at UCB and our communities

We are creating the right conditions for **all UCB employees to thrive.**

We support **vulnerable populations** in the countries where we operate.



### Value the planet

**By 2030, we will be carbon neutral and we will have reduced our water consumption and waste production by respectively 20% and 25%.**



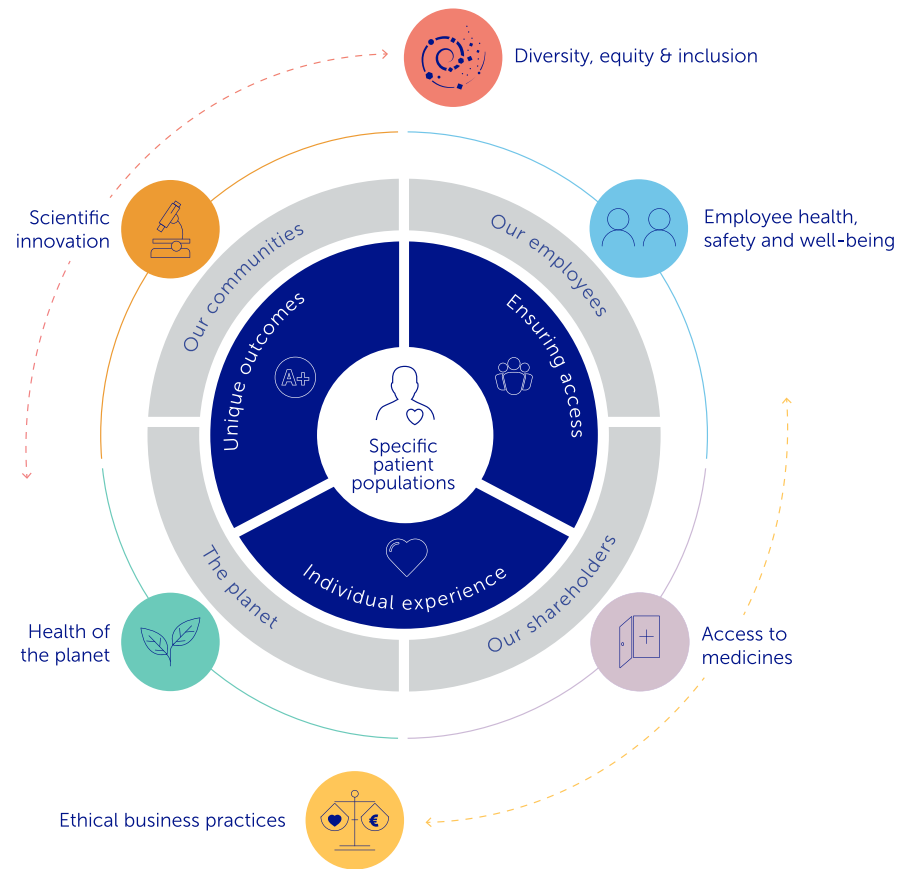
### Value for shareholders

**By 2025, we will lead in 5 specific patient populations**

Our revenue are expected to reach of at **least € 6 billion** and our **adj. EBITDA margin to be in the low to mid-thirties.**

We will have **improved significantly our ESG rating performance.**

# Driving sustained growth while making a positive impact on society<sup>1</sup>



### Value for patients

- ✓ **>3.4 M** patients
- ✓ **35%** reimbursement for all within regulatory labels
- ✓ **42%** reimbursement for some but not all within regulatory labels



### Value for people at UCB

- ✓ Preserved jobs while mitigating headwinds
- ✓ **80.4%** for our Health, Safety and Wellbeing index
- ✓ **38%** women at executive level
- ✓ **1<sup>st</sup>** inclusion index results



### Value for our communities

- ✓ **>140** global academic partnerships
- ✓ **12** early-stage biotech companies funded by UCB Venture
- ✓ **143** projects worldwide in the UCB Community Health Fund since 2020



### Value the planet by 2030

- ✓ **-58%** CO<sub>2</sub> emissions we directly control vs. 2015
- ✓ **30%** emissions by our suppliers with Science-Based-Targets alike



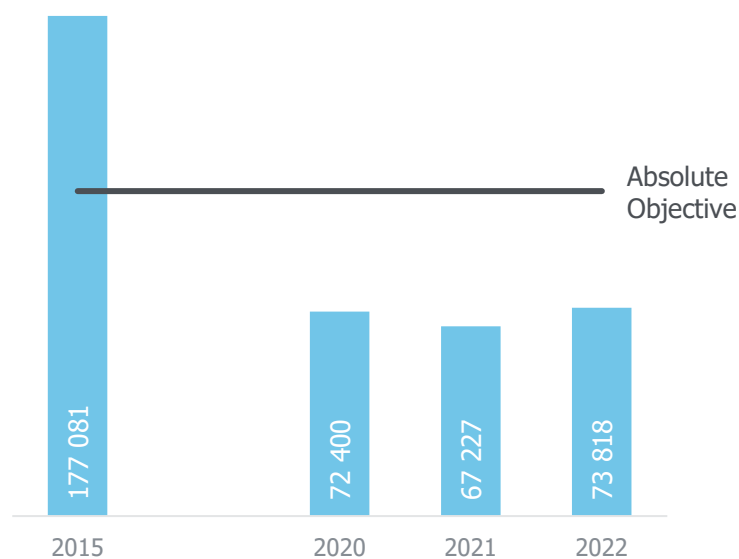
### Value for shareholders – 2022 financial results

- ✓ **€ 5.52 bn** revenues
- ✓ **€ 1.26 bn** adjusted EBITDA
- ✓ **16.8** as Sustainalytics rating (low risk)

# UCB Green Strategy

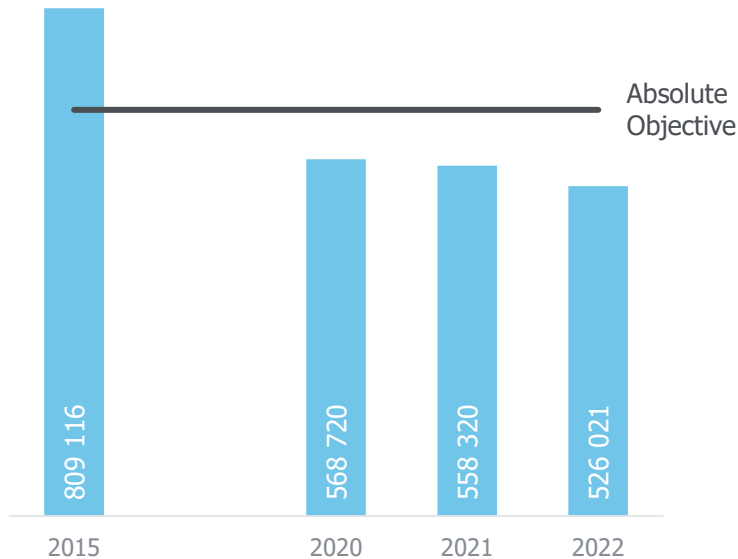
Our environmental targets by 2030  
– Reductions in absolute numbers against 2015 baseline

**CO<sub>2</sub> emissions**  
**- 58% since 2015**



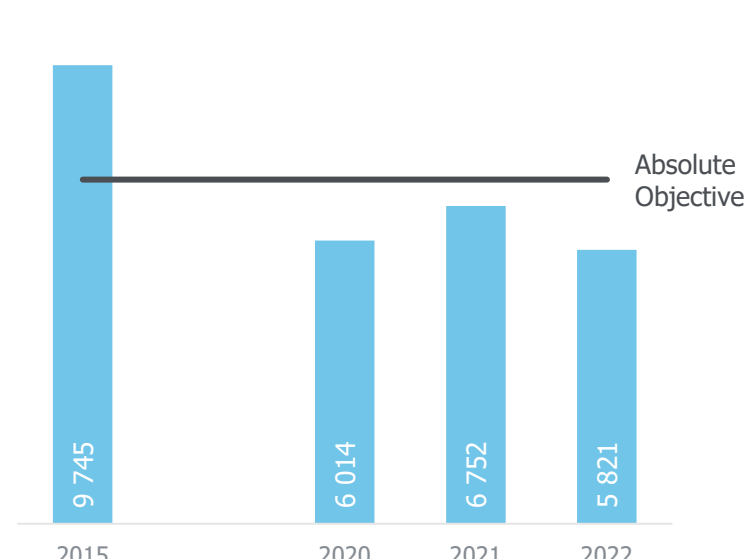
CO2e emissions (tons)  
2030 Objective -35%

**Water consumption**  
**- 35% since 2015**



Water consumption (m³)  
2030 Objective -20%

**Waste production**  
**- 40% since 2015**

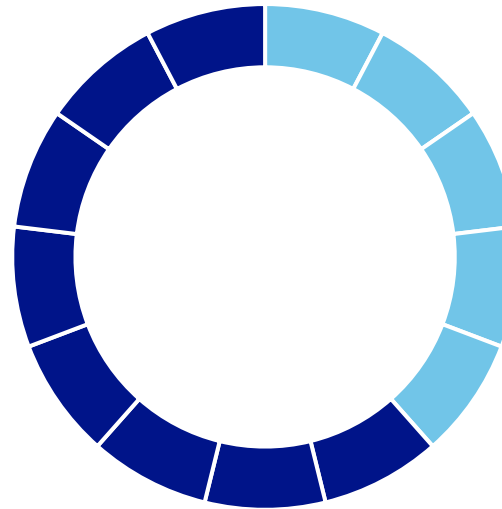


Waste production (tons)  
2030 Objective -25%

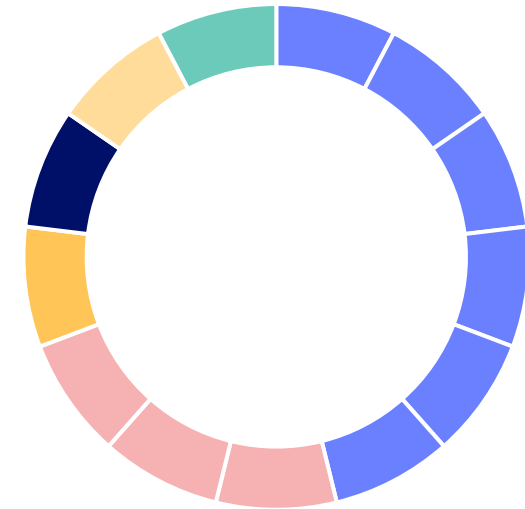
# Corporate Governance

## Board of directors

- **13 members**
  - Mandate: 4 year
  - Age limit: 70
- **5 women (38%)**
- **7 independent directors (54%)**
- **6 nationalities**



● Women ● Men

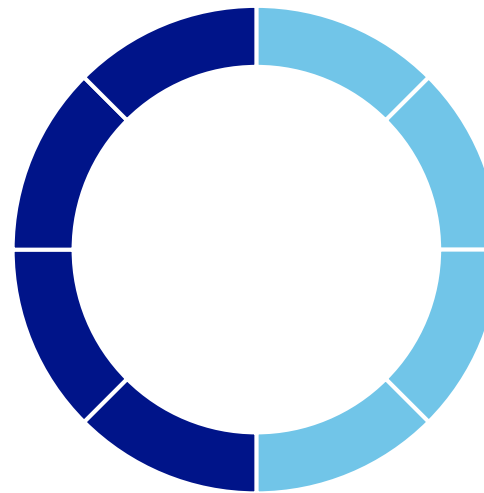


● Belgium ● France  
● U.K. ● US  
● Denmark / Sweden  
● Swiss

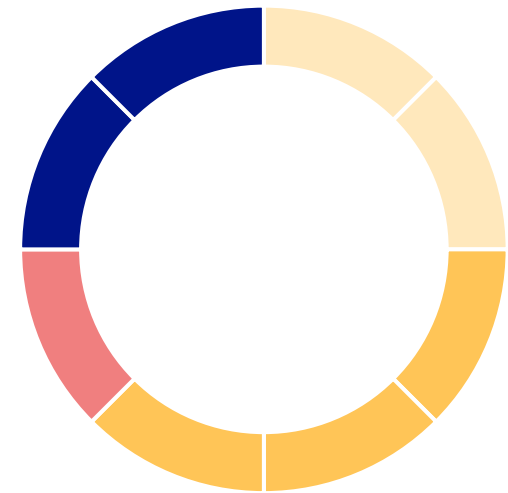
# Corporate Governance

## Executive committee

- **8 members**
  - Jean-Christophe Tellier, CEO since 2015
- **4 women (50%)**
- **4 nationalities**



● Women ● Men



● Belgium ● France  
● Germany ● US

# Corporate Governance

Executive committee headed by Jean-Christoph Tellier

- **8 members**
- **4 women (40%)**
- **4 nationalities**



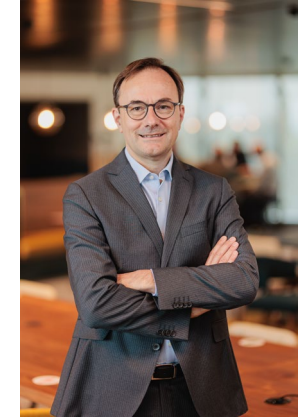
JL Fleurial,  
CHRO



S. Dufour,  
CFO



D. Waynick Johnson  
General Counsel



E. Caeymaex,  
Immunology Solutions &  
Head of U.S



JC Tellier,  
CEO\*



D. Patel,  
CSO



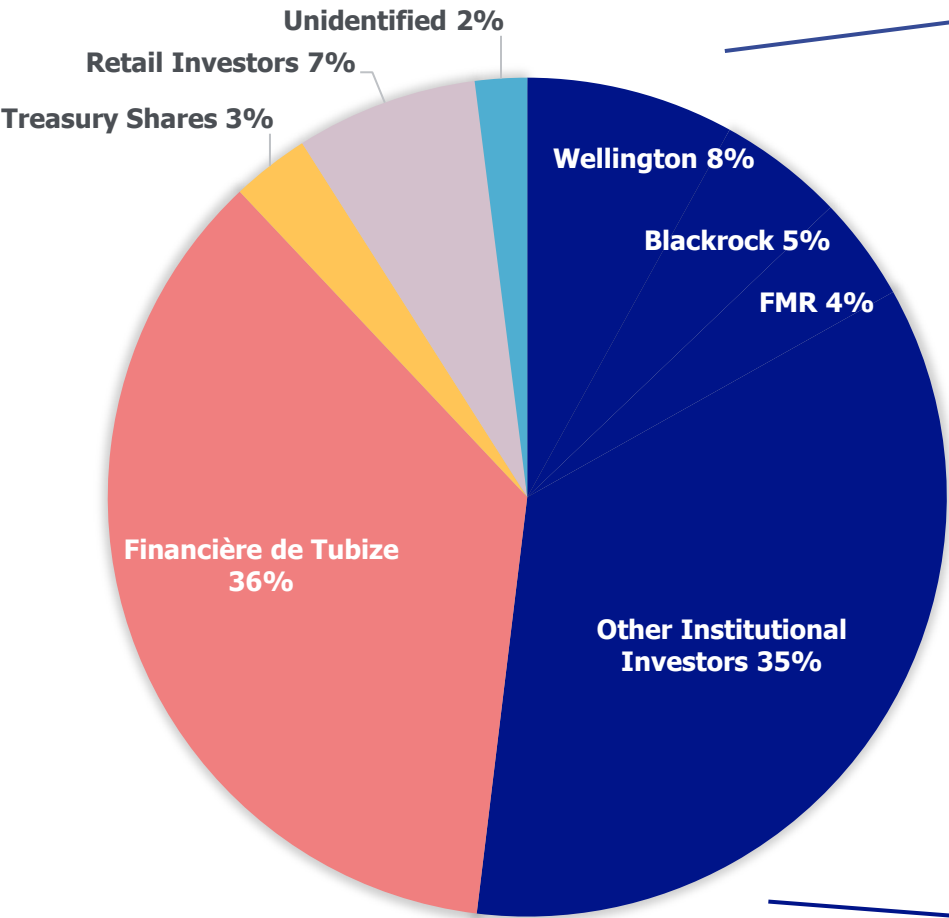
I. Loew-Friedrich,  
CMO



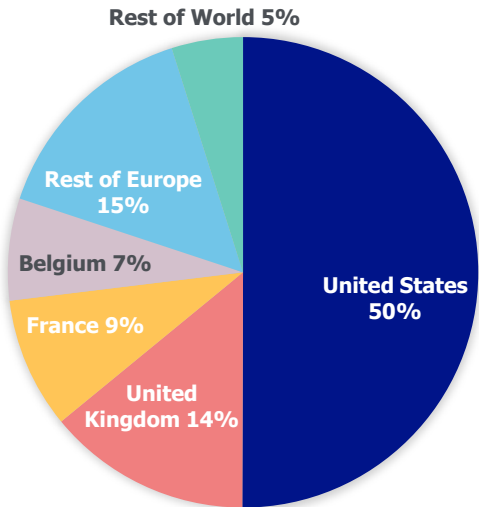
K. Lund-Jurgensen,  
Supply & Technology  
Solutions

\*Ad interim: JC Tellier,  
Neurology Solutions &  
Head of EU / International

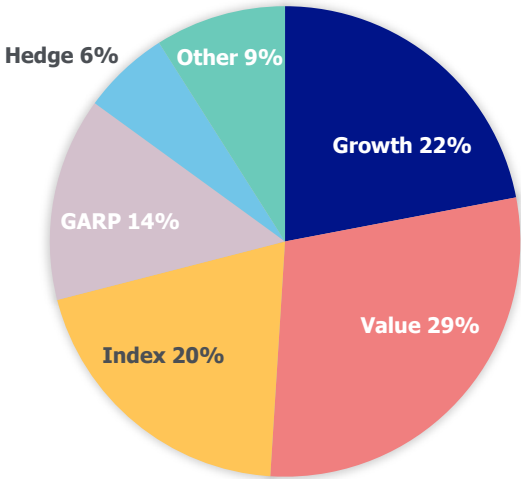
# Shareholder distribution



Institutional investors:  
geographic distribution



Institutional investors:  
investment style





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