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Presentation Overview

- (1) Santhera in a snapshot
- (2) Duchenne muscular dystrophy (DMD) and the need for a better foundational therapy
- (3) Financial status





Commercial stage company in attractive DMD market

- SIX Swiss Exchange listed company (SANN)
- Lead asset vamorolone in DMD (and beyond)
 - Safer alternative to corticosteroids
 - Regulatory decisions in Q4-2023 (US, EU, UK)
 - Recent Catalyst US deal valued at up to USD 231 million plus royalties

Cash to execute own EU commercial strategy into 2025





Duchenne muscular dystrophy (DMD)

Genetic disease causing progressive muscle weakness

- Loss of ambulation in early teenage years
- Respiratory failure and cardiac complications
- Life expectancy in the late twenties
- 30 35,000 patients in US and EU, combined
- Corticosteroids standard of care

- Current therapies with intrinsic limitations
 - Exon skipping drugs
 - Micro-dystrophin gene therapy









Vamorolone can fill the need for a better foundational therapy in DMD

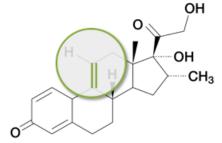
ESTABLISHED EFFICACY OF STEROIDS

ESTABLISHED FOUNDATIONAL THERAPY SAFETY ISSUES WITH STEROIDS

TOO LATE
TOO LITTLE
TOO SHORT

VAMOROLONE OFFERING

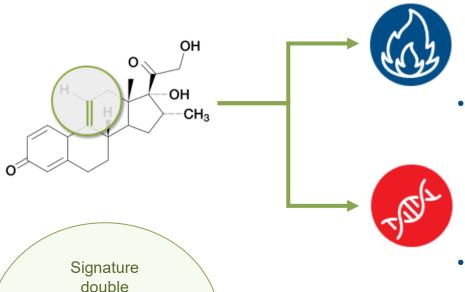
NEW
DISSOCIATIVE
STEROID CLASS





Vamorolone dissociative properties

Subtle but impactful difference in chemical structure separates vamorolone from classical steroids¹⁻⁵



Like corticosteroids, efficacy maintained by potent anti-inflammatory action

Retained inhibition of NF-κB pro-inflammatory transcription factor

Unlike corticosteroids, potential for reduction of steroid-associated side effects

- Less activation of genes related to side effects
- Not a substrate of hydroxysteroid dehydrogenase
- Potent mineralocorticoid antagonist (eplerenone-like)
- Membrane stabilizer



bond impacts receptor binding

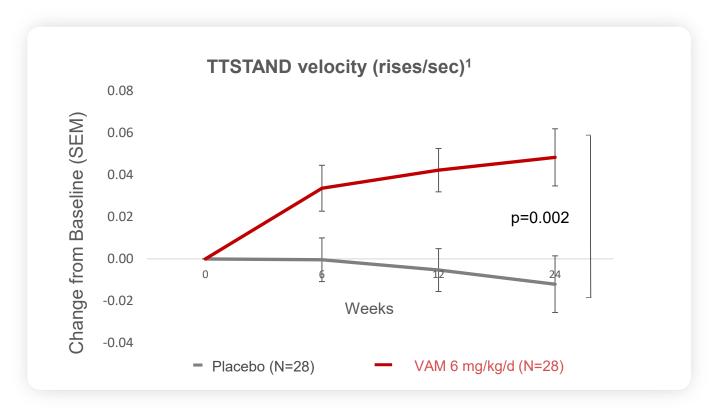
and alters enzyme and membrane

interactions

Primary endpoint was met in pivotal clinical trial (VISION-DMD)



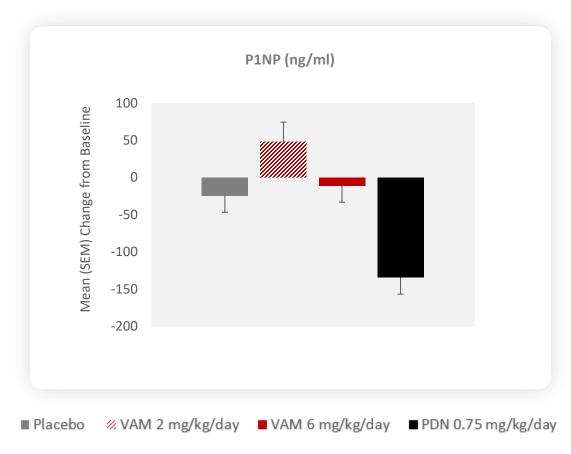
Rise time (sec) ^{1,2}	BL	w 24	% Change
VAM 6 mg/kg/d	6.0	4.6	- 23%
Placebo	5.4	5.5	+ 2%





Vamorolone has no negative impact on bone biomarkers

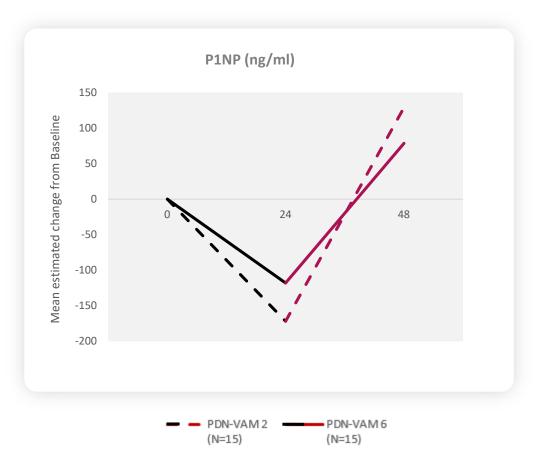
Example shown for biomarker of bone formation (VISION-DMD at 24 weeks)





Vamorolone leads to biomarker recovery after switch from prednisone

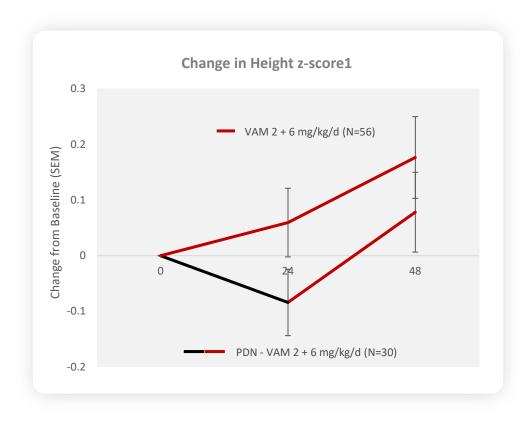
Example shown for biomarker of bone formation (VISION-DMD)





Switching from prednisone to vamorolone recovers normal growth

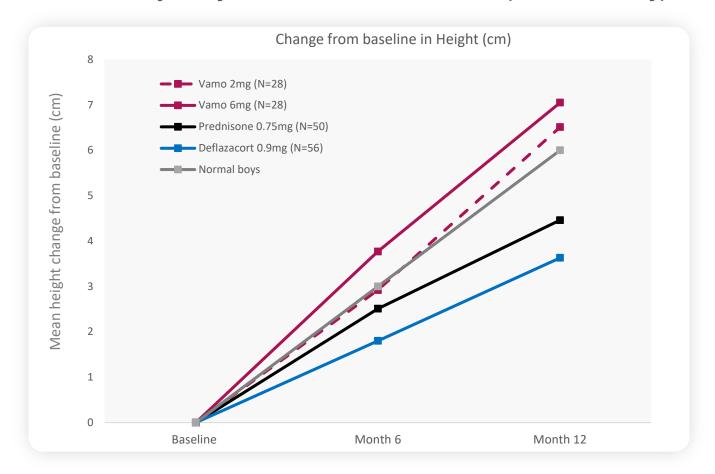
Growth trajectory (VISION-DMD)





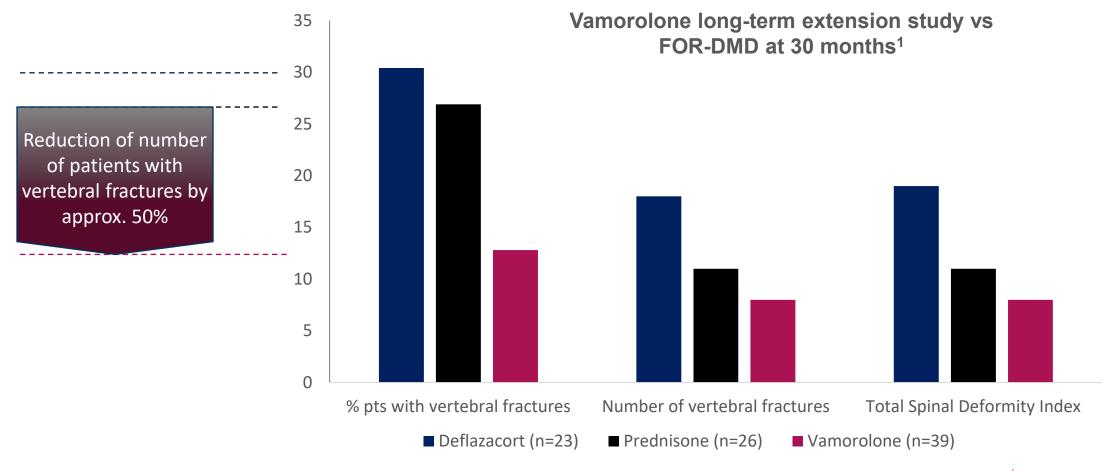
Vamorolone unlike other steroids preserves normal, long-term growth

Growth trajectory VISION-DMD vs FOR-DMD (natural history)





Vamorolone leads to fewer and less severe spinal fractures





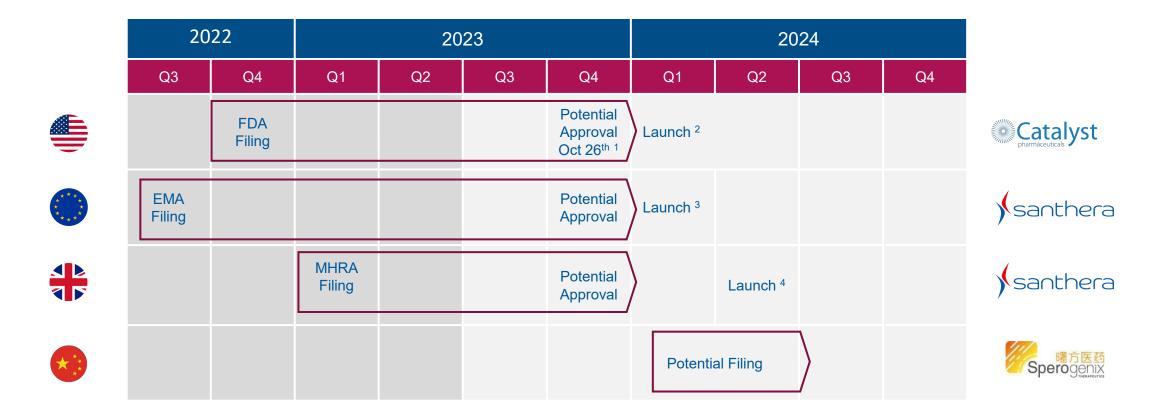
Summary of value proposition for vamorolone in DMD

- Durable efficacy comparable to standard of care
- Preserved bone health (unlike deleterious effect of standard steroids)
- Improved safety profile compared to prednisone evident at 24 weeks
- Long-term treatment profile being further explored in LTE and EAPs





Potential approvals in Q4-2023 allow Q1-2024 launches in US and EU



Orphan drug exclusivity in US (7 years) and Europe (12 years incl. ped. extension)

Patent protection at least until 2040 (US) and 2035 (EU)



Santhera holds global rights to vamorolone in all indications

North America

Partnership with Catalyst (NA)

China

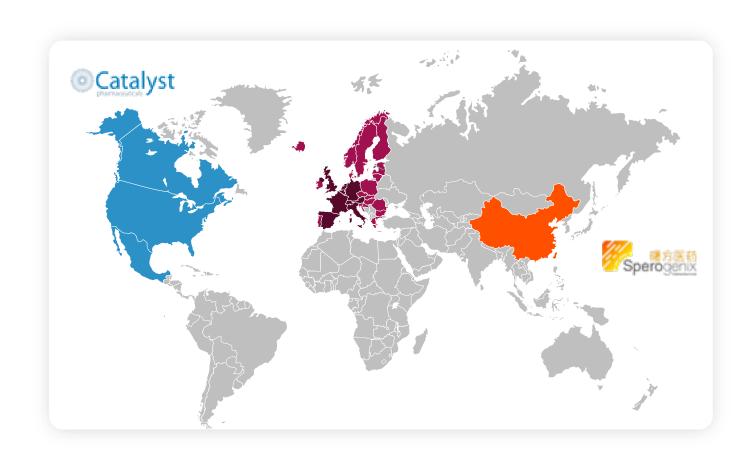
Partnership with Sperogenix (CN)

Europe

Own commercialization (next slide)

Rest of world

Further out-licensing opportunities





Santhera commercial launch in key European geographies

- Early access programs starting in Q4-2023 in FR and UK
- First launch in Germany in early Q1-2024
- Commercialization in core Western markets by Santhera
 - Lean commercial organization with up to 60 incremental FTEs
 - Peak sales of EUR >150 million in Santhera territory in DMD alone
- Commercialization through distributors outside core markets
 - Additional revenue from partners





Vamorolone – a pipeline in a product with multi-indication potential

 Focus on patient population benefiting from a prolonged and safer steroid treatment

- Ongoing selection process identified various therapeutic areas
 - Internal research supported by Back Bay
 Life Science Advisors, KPMG and tranScrip
- Candidate indications for development will be prioritized over the coming months together with partner Catalyst

Therapeutic Area	Indication	
Neurology	Becker Muscular Dystrophy*	
	Myasthenia Gravis Ocular*	
	Chronic Inflammatory Demyelinating Polyneuropathy	
Pulmonology	Sarcoidosis*	
	Idiopathic Interstitial Pneumonitis	
Nephrology	Frequently Relapsing Nephrotic Syndrome*	
	Membranous Nephropathy	
Rheumatology	Dermatomyositis	
	Juvenile Rheumatoid Arthritis	
	Polymyalgia Rheumatica	
Hematology	Genetic or Acquired Anemia	
Hepatology	Autoimmune Hepatitis Type 2	

^{*} Indications with most advanced analyses



Santhera financial status

Santhera Pharmaceuticals is listed on the Swiss Stock Exchange SIX: Ticker SANN

Key figures (CHF million as of June 30, 2023*)

•	Net (loss) for the period	(23.3)
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- Cash (used) in operations (15.5)
- Cash & cash equivalents
 1.7
- Debt outstanding (maturity 2024) ** (49.1)
- Shareholders' equity (42.8)

Capital structure (as of August 31, 2023)

- Basic shares outstanding 12.6 million
- Market capitalization CHF 110 million (per share CHF 8.74)
- Major shareholders Catalyst (11.2%) and Idorsia (10.3%)
- Research coverage by H.C. Wainwright and valuationLAB

Recent transaction

07-2023: Vamorolone US licensing to Catalyst
 Raxone/idebenone divestment to Chiesi

Cash runway

Q1-2025 incl commercial EU infrastructure & launch

Upcoming milestones vamorolone

- Q4-2023: CHMP (EU), MHRA (UK) and FDA decision (US PDUFA Oct 26th)
- Q4-2023: Early access programs in UK and France
- Q1-2024: Commercial launch by Catalyst (US) and Santhera (EU)

Santhera is well positioned for future growth

Future potential for vamorolone as pipeline within a product not factored in current valuation

- Healthy balance sheet with low debt and sufficient cash for own commercialization in core EU markets
- Non-dilutive income via own EU sales, licensing income and additional opportunities for partnering
 - DMD market is well defined across global territories with a need for better foundational therapy
 - EUR >150 Mio peak sales in Santhera European territory with vamorolone in first indication DMD
 - Strong partner Catalyst for US and worldwide opportunities beyond existing China partnership with Sperogenix
 - International patent protection at least until 2040 (US) and 2035 (EU)
- Potential beyond DMD for vamorolone as replacement for chronic steroid treatment
 - Additional indication development to be conducted jointly with Catalyst Pharmaceuticals
 - Shortlist of indication further prioritized in coming months



