

Road Show Presentation Jan-Sep 2019



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Hansa Biopharma at a glance



Company background

- · Founded 2007 with HQ in Lund. Sweden
- · Sören Tulstrup, CEO Ulf Wiinberg, Chairman
- 64 employees (~3/4 in R&D) at Sep 30, 2019
- · Operations in Sweden, US & Europe
- Market cap: SEK ~6bn (USD ~600m) Oct, 2019
- · Listed on Nasdag OMX Stockholm (HSNA)



Leader in immunomodulatory enzymes for rare IgG-mediated diseases

- Imlifidase is a unique IgG antibody-cleaving enzyme
- Imlifidase has been studied in five clinical studies and published in peer-reviewed journals (e.g. New England Journal of Medicine and the American Journal of Transplantation)
- If approved, Imlifidase may have the potential to meet a large unmet need and transforming the lives of people with rare disease



Broad pipeline in transplantation and autoimmune diseases

- Lead indication in kidney transplantation in highly sensitized patients (MAA under review by EMA)
- Anti-GBM antibody disease (Phase 2)
- Antibody mediated kidney transplant rejection (AMR) (Phase 2)
- Guillain-Barré syndrome (Phase 2)
- · NiceR Recurring treatment in autoimmune disease, transplantation and oncology (Preclinical)
- EnzE Cancer immunotherapy (Preclinical)



Key Financials

Cash position
 Operating Cash Flow
 R&D cost
 Net Profit
 9m'19 SEK -260m
 9m'19 SEK -135m
 9m'19 SEK -249m

...at Hansa Biopharma we envision a world where all patients with rare immunologic diseases can lead long and healthy lives...



Our Equity Story A unique immunomodulatory enzyme technology platform



Imlifidase cleaves IgG antibodies

- Imlifidase is a unique IgG antibody-cleaving enzyme studied in five clinical studies.
- By removing the immunological barrier, imlifidase has the potential to enable kidney transplantation in highly sensitized patients



Potentially addressing a clear unmet need

- Patients may become sensitized after losing a first transplant or being exposed to foreign tissues through blood transfusion or pregnancy.
- Such sensitized patients account for roughly 30% of people on the kidney waiting lists.



A company well positioned for commercial success

- Hansa Biopharma is establishing its own commercial and medical organization in EU and the US. Outside these core markets we will seek commercial partnerships.
- Hansa Biopharma has a broad patent coverage throughout 2035 in key markets and orphan drug designation in EU and US for imlifidase in kidney transplantation.



Rich pipeline

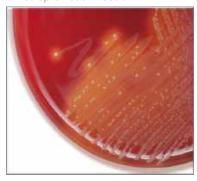
- We are leveraging our proprietary immuno-modulatory enzyme platform in phase 2 clinical studies in rare autoimmune indications incl:
 - Anti-GBM (Goodpasture's)
 - · Guillain-Barré syndrome
 - Acute AMR post transplantation

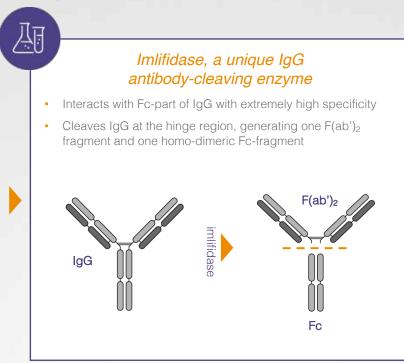


Imlifidase, a novel approach with a rapid onset of action to eliminate pathogenic IgG with high specificity

Origins from Streptococcus pyogenes

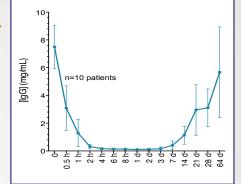
- Species of Gram-positive, spherical bacteria in the genus Streptococcus
- Usually known from causing a strep throat infection







- Rapid onset of action that inactivates IgG below detectable level in 2 hours
- IgG antibody-free window for approximately one week



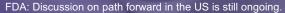


Broad pipeline in transplantation and auto-immune diseases



¹ Results from the Phase 1 study have been published, Winstedt el al. (2015) PLOS ONE 10(7).

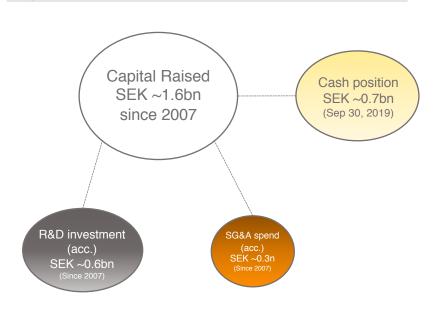
^{*)} EMA: In imlifidase for kidney transplantation we have filed for conditional approval after completion of phase 2. A confirmatory study would need to be executed in case of approval.





Hansa Biopharma is financed through 2020

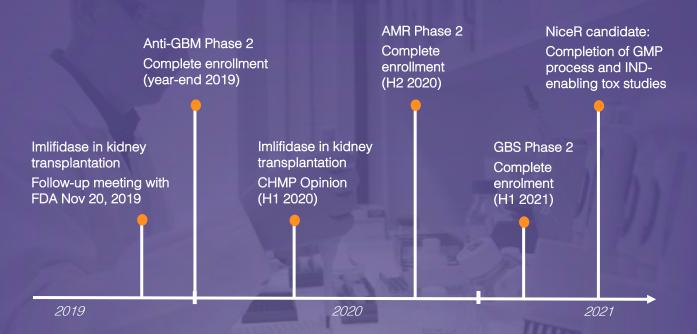
Significant capital raised since 2007



Solid cash position end of September 2019



Upcoming milestones







Positive results presented at ESOT; FDA meeting confirmed

Highlights for the third quarter 2019

- Solid progress across the organization
 - Expanding our global footprint
 - Building medical and commercial team to support potential launch of imlifidase in 2020
 - Increasing our engagements with the healthcare community
- Positive imlifidase data presented at the ESOT congress in Copenhagen. Pooled analysis of 46 highly sensitized patients
- EMA regulatory review process progressing as planned; CHMP opinion expected in the first half of 2020.
- Follow-up meeting with the FDA scheduled for Nov 20, 2019
- First patient dosed in AMR; Continued enrollment in Anti-GBM
- Explore potential to enable gene therapy in patients with Neutralizing Antibodies (NAbs)
- Cash position stood at SEK 680m (~USD 70m) end of Sep 2019



Imlifidase enabled transplantation in 46 highly sensitized patients

Pooled analysis of four Phase 2 trials presented

- Analysis included 46 patients
 - 50% had a cPRA of 100% (Average 99%)
 - 85% were crossmatch positive
 - 70% were retransplanted
- Donor Specific Antibody (DSA) levels rapidly decreased and all crossmatches were converted to negative, thus enabling transplantation in all patients
- No strong correlation between DSA levels and AMR. AMR episodes occurred in 33% of patients - all treated with standard of care
- At study completion, all patients alive and graft survival at 94%





Continued advancement toward potential commercialization

Imlifidase in kidney transplantation

Europe (EMA)

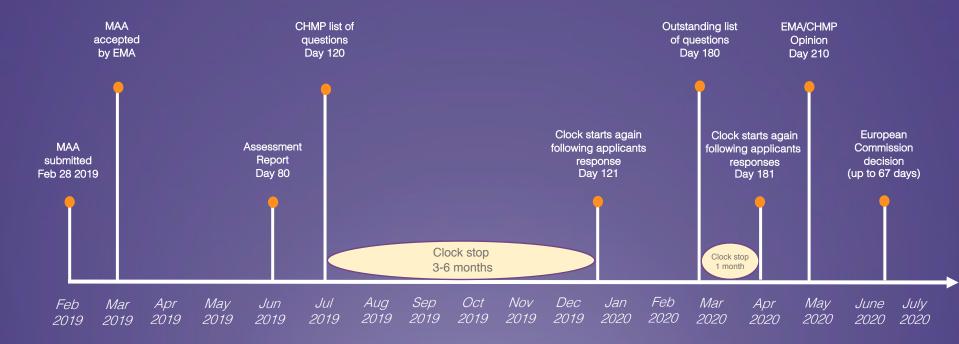
- MAA for imlifidase accepted end of Feb'19; regulatory review progressing as expected
- Opinion from Committee for Medicinal Products for Human Use (CHMP) expected during the first half of 2020

U.S. (FDA)

- Follow-up meeting with the U.S. Food and Drug Administration scheduled for November 20, 2019
- Discussions from Dec 2018 meeting to be continued to determine U.S. regulatory path forward
- U.S. Department of Health and Human Services set out three specific goals for end-stage renal disease (ESRD):
 - 1) Reduce number of patients who develop ESRD by 25% by 2030
 - 2) 80% of new ESRD patients in 2025 either receive a transplant or homecare dialysis
 - 3) Double the number of kidneys available for transplant by 2030



EMA – The process towards approval





Imlifidase may potentially enable lifesaving kidney transplantation in highly sensitized patients

Creating equity for highly sensitized patients

- Transplant rates in highly sensitized patients have improved with the introduction of the allocation systems. However, transplantations rates among highly sensitized patients are still low compared with average or non-sensitized patients
- If approved, imlifidase may potentially:
 - Complement allocation systems (e.g. KAS, Euro-transplant) to reduce time to transplant in highly sensitized patients
 - Reduce the need for antibody matching and gives sensitized patients access to a larger pool of organs
 - Reduce the risk for co-morbidities and mortality associated with dialysis and waiting time
 - Increase transplant rates in highly sensitized patients
 - Help reduce the number of discarded kidneys (1,000 donated kidneys are discarded in the U.S. alone every year³)



Delilah Romero, 23 years old from Pasadena, California and a highly sensitized kidney transplant patient

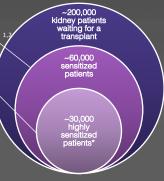
U.S. + EU Kidney Transplant Waitlist Breakdown

>30% of waitlist patients are sensitized

- 15% moderately sensitized
- 15% highly sensitized1,2 *

*Patients with sensitivity above cPRA 80%

Source: The U.S. Department of Health and Human Services and .irodat.org



~40,000 transplants done annually in the US and EU.

Hereof ~7,000* in highly sensitized patients



¹ Jordan et al. British Medical Bulletin, 2015, 114:113–125

² Orandi et al. N Engl J Med 2016;374:940-50

³ Organ Procurement and Transplantation Network (OPTN)

⁴ Jordan et al. British Medical Bulletin, 2015, 114:113-125

First patient treated in AMR; 11 patients enrolled in Anti-GBM

Solid progress in our pipeline over 9 months

Anti-Glomerular Basement Membrane Disease (Anti-GBM)

 11 patients enrolled out of targeted 15. Additional sites have been added to complete the enrollment by year-end

Antibody Mediated Rejection (AMR) in kidney transplant

- First patient treated with imlifidase in our AMR Phase 2 study
- The study is designed to evaluate the safety and efficacy of imlifidase in eliminating donor specific antibodies (DSAs) in the treatment of episodes of acute AMR

Guillain-Barré Syndrome (GBS)

- Recruitment process initiated in our GBS Phase 2 study; enrolling up to 30 patients at ten clinics in the EU
- The study is designed to evaluate the safety, tolerability and efficacy of imlifidase in GBS patients in combination with standard-of-care intravenous immunoglobulin (IVIg)

NiceR

 Lead candidate selected. Development of a GMP process ongoing as well as preparations for toxicology studies





Appendix

Road Show Presentation Jan-Sep 2019

Completed and ongoing studies with imlifidase in kidney transplantation

STUDY	SUBJECTS/ COUNTRY	CLINICAL TRIALS.GOV ID	STUDY DESIGN	PRIMARY ENDPOINT	SECONDARY ENDPOINTS	STATUS	PUBLICATION
Study 01 Phase 1	29 subjects	NCT01802697 (2013/2014)	Randomized placebo-controlled dose- escalation study with 29 (20 active plus 9 placebo) healthy subjects	Safety and tolerability	Efficacy in IgG cleavage, the pharmacokinetics (PK) and immunogenicity of imlifidase	Complete	PLOS ONE (2015) ¹
Study 02 Phase 2	8 subjects	NCT02224820	Single-center, single-arm, open-label	Dosing resulting in HLA-antibody reduction (MFI<1100)	Efficacy: HLA antibody reduction acceptable for transplantation (MFI <1100 as measured in SAB assay)	Complete	Lorant et al (2018) American Journal of Transplantation ²
Study 03 Phase 2	10 subjects	NCT02475551	Single-center, single-arm, open-label No prior desensitization	Safety: AEs, clinical laboratory tests, vital sign ECGs	ns, • Efficacy: HLA antibody reduction acceptable for transplantation (MFI <1100 as measured in SAB assay)	Complete	The New England Journal of Medicine (2017) ³
Study 04 Phase 2	17 subjects	NCT024226684	Investigator initiated study, Single-center, single-arm, open-label All patients had prior desensitization with IVIG and/or plasmapheresis	Assessment of efficacy in eliminating DSAs in DSA and flow cytometry positive, highly sensitized patients Assessment of safety Assessment of efficacy and kidney function	Serum creatinine (0-6 months) Proteinuria (0-6 months) DSA at multiple timepoints posttransplant (day 0, D30, D90, D180)	Complete	The New England Journal of Medicine (2017) ³
Study 06 "Highdes" Phase 2	18 subjects	NCT02790437	Multicenter, multinational, single-arm, open-label Included pts who may have had prior unsuccessful desensitization or pts in whom it was unlikely to be effective	Crossmatch conversion in DSA+ patients who have a positive XM test to their available LD o DD		Complete	Annals of Surgery (Lonze et al, only New York patients) Montgomery et al ATC abstract (2019) ⁴
Long-term follow-up study	Up to 46 subjects	NCT03611621	A prospective, observational long-term follow-up study of patients treated with imlifidase prior to kidney transplantation	Long-term graft survival in patients who have undergone kidney transplantation after imlifidase administration	Patient survival, kidney function, comorbidity, treatments and quality of life Safety DSA	Ongoing	

¹ Winstedt el al., "Complete Removal of Extracellular IgG Antibodies in a Randomized Dose Escalation Phase I Study with the Bacterial Enzyme IdeS – A Novel Therapeutic Opportunity", PLOS ONE 2015, 10(7)

Immunogenicity



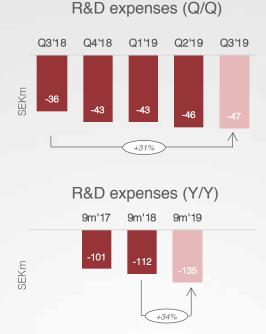
² Lorant et al., "Safety, immunogenicity, pharmacokinetics and efficacy of degradation of anti-HLA antibodies by IdeS (imilificase) in chronic kidney disease patients" Am J Transplant. 2018 Nov;18(11):2752-2762

³ Jordan et al., "IgG Endopeptidase in Highly Sensitized Patients Undergoing Transplantation", N Engl J Med 2017;377:442-53.

⁴ Montgomery et al., "Safety And Efficacy Of Imilifidase In Highly-sensitized Kidney Transplant Patients: Results From A Phase 2 Study" ATC Abstract, 2019

SG&A and R&D spending increase with commercial preparation and pipeline advancement









Cash flow follows increased activity level; Cash position stood at SEK 680m (~USD 70m) end of September 2019

Operating cash flow (Q/Q)



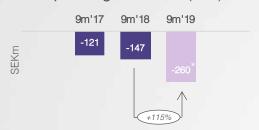
Cash & short term investments (Q/Q)



Number of employees (Q/Q)



Operating cash flow (Y/Y)



Shareholders equity (Q/Q)





Contact our Investor Relations and Corporate Communications team

Visit our new web site www.hansabiopharma.com





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Calendar

Oct 31, 2019 Interim report Jan – Sep 2019

Nov 4-7, 2019 NDRS MorganStanley, US

Nov 12, 2019 Bryan Garnier Healthcare Cont

Nov 12, 2019 Bryan Garnier Healthcare Conference, Paris
Nov 14-15, 2019 NDRS Kempen, Amsterdam and Zurich

Nov 15, 2019 NDRS Carnegie, Stockholm

Nov 19, 2019 Redeye Lifescience Conference, Stockholm

Nov 20, 2019 Jefferies Global Healthcare Conference, London

Dec 4, 2019 Evercore Annual Health CONx Conf, Boston

Dec 5, 2019 DNB Nordic-American Life Science Conf, NYC

Jan 8, 2020 SEB Nordic Seminar, Copenhagen

Jan 12-15, 2020 JPM Week, San Francisco

Feb 6, 2020 Interim Report Oct-Dec 2019

Mar 4, 2020 Carnegie Nordic Healthcare Seminar, Stockholm

Apr 2, 2020 Annual Report 2019

Apr 28, 2020 Interim Report Jan-Mar 2020



