HANSA BIOPHARMA **Investor Presentation** Carnegie Nordic Healthcare Seminar Stockholm, March 4, 2020

Søren Tulstrup, President & CEO



Forward-looking statement

This presentation may contain certain forward-looking statements and forecasts based on uncertainty, since they relate to events and depend on circumstances that will occur in the future and which, by their nature, will have an impact on Hansa Biopharma's business, financial condition and results of operations. The terms "anticipates", "assumes", "believes", "can", "could", "estimates", "expects", "forecasts", "intends", "may", "might", "plans", "should", "projects", "will", "would" or, in each case, their negative, or other variations or comparable terminology are used to identify forward-looking statement. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in a forward-looking statement or affect the extent to which a particular projection is realized. Factors that could cause these differences include, but are not limited to, implementation of Hansa Biopharma's strategy and its ability to further grow, risks associated with the development and/or approval of Hansa Biopharma's products candidates, ongoing clinical trials and expected trial results, the ability to commercialize imlifidase, technology changes and new products in Hansa Biopharma's potential market and industry, the ability to develop new products and enhance existing products, the impact of competition, changes in general economy and industry conditions and legislative, regulatory and political factors.

No assurance can be given that such expectations will prove to have been correct. Hansa Biopharma disclaims any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.



Hansa Biopharma at a glance



Company background

- · Founded 2007 with HQ in Lund. Sweden
- Sören Tulstrup, CEO Ulf Wiinberg, Chairman
- ~74 employees (~3/4 in R&D) at Dec 31, 2019
- Operations in Sweden, US & Europe
- Market cap: SEK ~3.5bn (USD ~350m) Dec 31, 2019
- · Listed on Nasdag OMX Stockholm (HNSA)



Leader in immunomodulatory enzymes for rare IgG-mediated diseases

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



Broad pipeline in transplantation and autoimmune diseases

- Lead indication in kidney transplantation in highly sensitized patients
 (EU: CHMP Opinion US: Initiation of clinical study to support BLA submission in 2023)
- 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	Q4'19* SEK 601m	FY'19* SEK 601m
R&D expenses	Q4'19* SEK -58m	FY'19* SEK -193m
Operating Profits/Loss	Q4'19* SEK -110m	FY'19* SEK -360m
Operating cash flow	Q4'19* SEK -75m	FY'19* SEK -335m

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

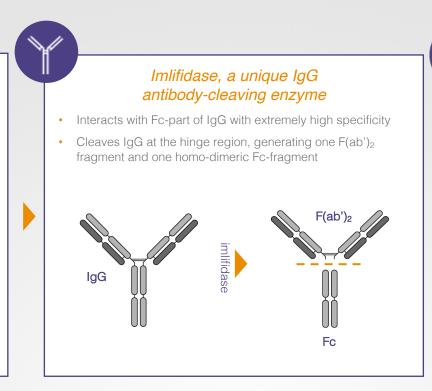


Imlifidase – a novel approach to eliminate pathogenic IgG

Origins from Streptococcus pyogenes

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

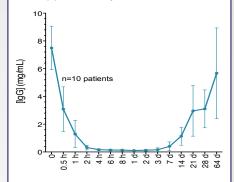






Imlifidase inactivates IgG in 2 hours

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





From technology development to potential commercialisation in 13 years



Hansa Medical founder

IdeS (imlifidase) discovered and patented by Prof. Lars Björk, M.D. Lund University



Partnship with Axis-Shield for HBP-test



Imlifidase First-in-man study



Start Imlifidase Phase II at Cedars Sinai and UUH



NEJM-publication Anti-GBM initiated



MAA submitted to EMA AMR & GBS Phase 2 initiated

Potential EMA

Project IdeS (Imlifidase) initiated

toxicology studies initiated



Imlifidase 1st Phase II



Initiation of HighdeS



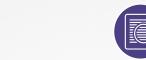
46 transplants enabled







GMP development and





Our Equity Story



Targeting rare diseases with a high unmet medical need



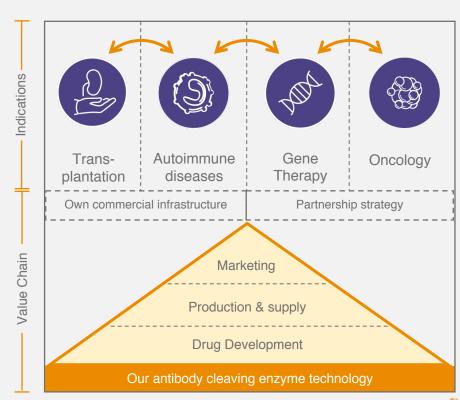
Preparing for commercialization



Evolution into a fully integrated biopharmaceutical company



Leveraging our proprietary antibody cleaving enzyme technology

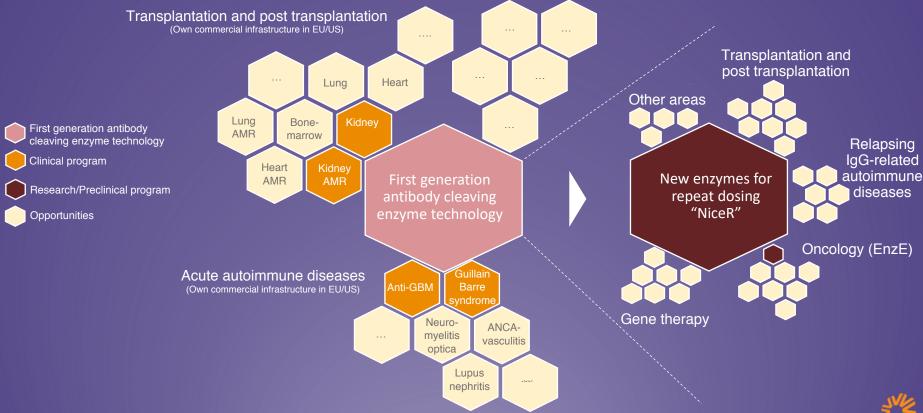




Potential indication universe

Gene therapy pre-treatment

(partnership opportunity)

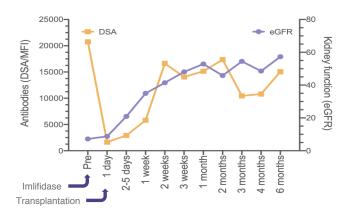




Imlifidase has enabled kidney transplantation in 46 highly sensitized patients

Pooled analysis from four Phase 2 trials

- 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
- At study completion, all patients alive and graft survival at 94% six months post transplantation



Study design of our four phase 2 trials

Study 02	١
Phase 2	

8 patients Subjects

Design

Single-center, single-arm, open-label

Main objective

Efficacy defined as Imlifidase dosing scheme resulting in HLA antibody levels acceptable for transplantation, within 24 hours

Study 03 Phase 2

Subjects

10 patients

Design

Single-center, single-arm, open-label, no prior desensitization

Main objective

Safety in the transplantation setting and efficacy defined as

HLA antibody levels acceptable for transplantation



Subjects

17 patients



Design

Investigator initiated, Single-center, single-arm, open-label. All patients had prior desensitization with IVIG and/or PLEX

Main objective Safety in combination with Cedars Sinai's "standard protocol"

for desensitization of highly sensitized patient



Subjects 18 patients



Design

Multicenter, multinational, single-arm, open-label

Main objective

Efficacy in creating a negative crossmatch test



EMA review process on track; Agreement with the FDA on a clear regulatory path forward in the US

Imlifidase in kidney transplantation

Europe (EMA)

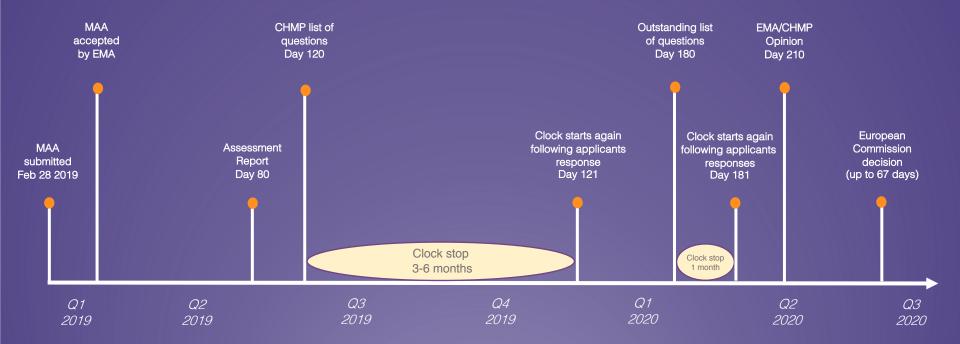
- Regulatory review process progressing as expected; Day 120 answers submitted on December 20, 2019
- Opinion from Committee for Medicinal Products for Human Use (CHMP) expected during the second quarter of 2020
- Decision by European Commission expected during the summer of 2020

U.S. (FDA)

- Agreement with FDA to conduct a randomized, controlled clinical study in approximately 50 highly sensitized kidney patients (≥ 99.9% cPRA) using eGFR (kidney function) after 12 months as a surrogate endpoint
- Results from this clinical study could support BLA submission by 2023 under the accelerated approval pathway



The EMA process towards marketing authorization





Focused launch strategy targeting leading kidney transplantation centers to ensure positive experience

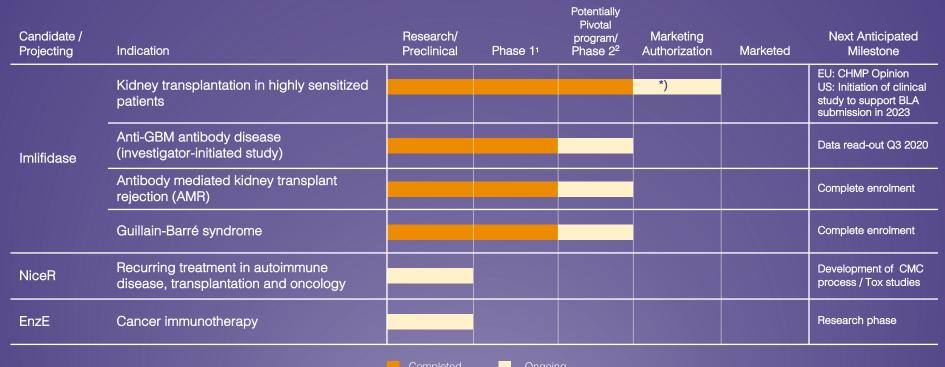
Potential EU launch under conditional approval

- A sequenced and focused strategy to launch imlifidase
 - Well defined and concentrated target audience
 - Center-focused launch strategy targeting leading clinics with the potential to become early adopters
 - Key to secure early positive experience in right patients; sales ramp-up as leading centers and clinicians gain experience
- Building awareness and Key Opinion Leader advocacy through Medical Science Liaisons (MSLs) in key European markets
- Post-approval study to be initiated following potential marketing authorization - an opportunity to generate relevant experience and broaden out the experience with imlifidase

EU launch will focus on leading transplantation centers

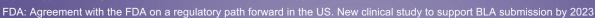


Broad pipeline in transplantation and auto-immune diseases



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 post-approval study would need to be executed in case of approval.





² Lorant et al American Journal of Transplantation and 03+04 studies (Jordan et al New England Journal of Medicine)

Enrollment in Anti-GBM completed; First two patients treated in GBS and AMR respectively

Ongoing studies evaluating safety and efficacy

Enrollment



Anti-GBM (investigator-initiated study)

- 15/15 patients enrolled in anti-GBM across 5 European countries
- First data read-out expected in Q3 2020



Antibody Mediated Rejection

- 2/30 patients treated with imlifidase in AMR. 6/8 sites have been initiated to recruit patients in the US, Europe and Australia
- Enrollment expected to be completed H2 2020



Guillain-Barré Syndrome

- 2/30 patients enrolled. 6/10 sites are recruiting patients across France, UK and the Netherlands
- Enrollment expected to be completed in H1 2021



Patients left

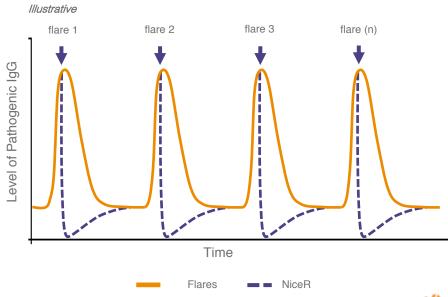


"NiceR" – new set of enzymes for repeat dosing; potentially enabling treatment of relapsing diseases

IgG-cleaving enzyme with lower immunogenicity

- Potential application for a broad array of indications, including reoccurring AMR, relapsing autoimmune diseases and oncology
- The first selected promising new drug candidate from the NiceR program is an IgG-cleaving enzyme (cysteine peptidase) with characteristics based on a homolog to imlifidase, but with lowered immunogenicity.
- Development of a GMP-manufacturing process has been initiated

NiceR can potentially inactivate flares



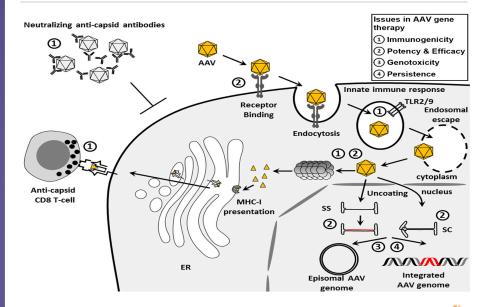


Exploring imlifidase in gene therapy as a potential pre-treatment to inactivate neutralizing antibodies

Nabs are immunological barriers in gene therapy

- Gene therapy programs may exclude up to 40% of patients from clinical studies and approved treatments due to presence of neutralizing antibodies¹
- Most gene programs use viral vectors originating from Adeno-Associated Viruses (AAV) for gene insertions in vivo; however in many cases the human immune system have developed preformed neutralizing anti-AAV that prevents effective and safe use
- 187 in vivo programs are ongoing in gene therapy including 73 clinical stage programs, while two *in vivo* gene therapy products have been approved by FDA (Luxturna from Spark Therapeutics and Zolgensma from Novartis)

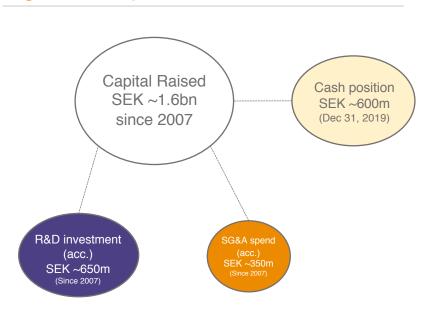
Idea is to enable gene therapy despite Nabs





Hansa Biopharma is financed into 2021

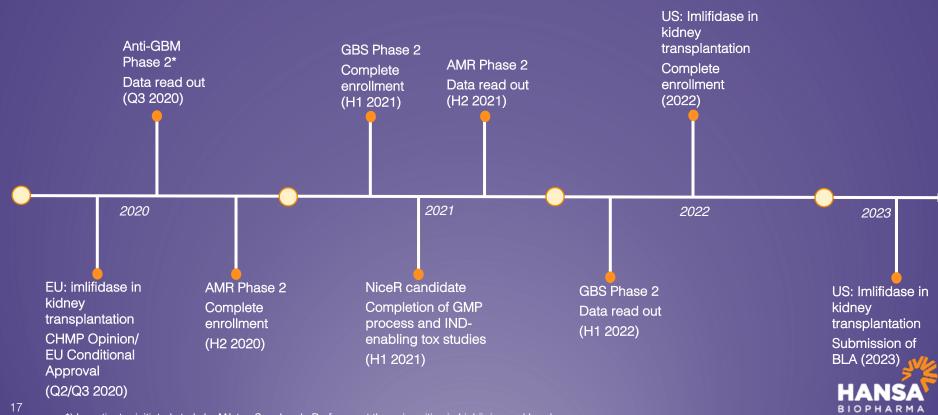
Significant capital raised since 2007



Cash position end of December 2019



Upcoming milestones







Appendix

Overview of all completed studies with imlifidase in transplantation

STUDY	SUBJECTS/ COUNTRY	STUDY DESIGN	PRIMARY ENDPOINT	SECONDARY ENDPOINTS	STATUS/ PUBLICATION
Study 01 Phase 1	29 subjects	 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	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	 Single-center, single-arm, open-label No prior desensitization 	Safety: AEs, clinical laboratory tests, vital signs, ECGs	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	 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/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	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 or DD	 DSA reduction at multiple timepoints (2, 6, 24, 48 h after imlifidase) Time to create negative CDC XM test and/or flow cytometry (FACS) XM test Safety 	Complete Annals of Surgery (Lonze et al, only New York patients) Montgomery et al ATC abstract (2019) ⁴
Long-term follow-up	Up to 46 subjects	 A prospective, observational long-term follow-up study of patients treated with 	Long-term graft survival in patients who have undergone kidney transplantation	 Patient survival, kidney function, comorbidity, treatments and QoL Safety 	Ongoing

after imlifidase administration

Immunogenicity

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

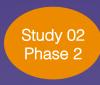
imlifidase prior to kidney transplantation

study

20

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)

² Lorant et al., "Safety, immunogenicity, pharmacokinetics and efficacy of degradation of anti-HLA antibodies by IdeS (imilfidase) in chronic kidney disease patients" Am J Transplant. 2018 Nov;18(11):2752-2762 Jordan et al., "IgG Endopeptidase in Highly Sensitized Patients Undergoing Transplantation", N Engl J Med 2017;377:442-53.



NCT02224820

SUBJECTS

8 Patients with chronic kidney disease (Sweden)

DOSES/FOLLOW UP TIME

0.12 & 0.25 mg/kg BW given once or twice within 48 hours

MAIN OBJECTTIVES

- Efficacy defined as Imlifidase dosing scheme resulting in HLA antibody levels acceptable for transplantation, within 24 hours from dosing
- Safety

STUDY DESIGN

- Single-center, Single arm with ascending doses, open label
- ascending doses, open-label
- Halispiantation not part of protocc

STATUS

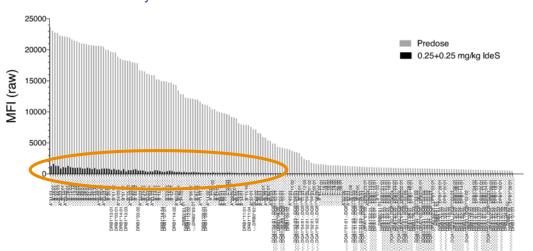
Completed

- Primary efficacy endpoint reache
- · Sale allu well toleratet

The 02 study showed that 1-2 doses of imlifidase at 0.25 mg/kg BW resulted in HLA antibody levels acceptable for transplantation¹

- ✓ Imlifidase is well tolerated in patients with chronic kidney disease
- Efficacy results strongly support further development in the patient population
- ✓ The first HLA-incompatible transplantation ever after desensitization with imlifidase was performed in one of these patients (2014)

HLA-antibody levels before and after 6 hours treatment with imlifidase



¹ Lorant et al (2018) American Journal of Transplantation (2018)





NCT0247555

SUBJECTS

10 Patients (Sweden)

DOSES/FOLLOW UP TIME

0.25 and 0.50 mg/kg during 180 days

MAIN OBJECTTIVES

- · Safety in the transplantation setting
- Efficacy defined as HLA antibody levels acceptable for transplantation

STUDY DESIGN

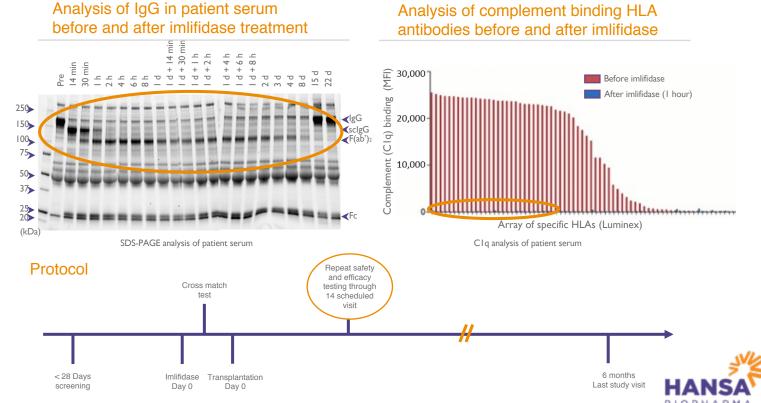
- Single-center, single-arm, openlabel, no prior desensitization
- Similar design as 13-HMedIdeS-02 but transplantation part of protocol
- · In deceased and living donors

STATUS

Completed

 Proofed safety and efficacy with HLA antibodies at acceptable levels; enabling transplantation i all patients

The 03 study proved safety and efficacy with HLA antibodies at acceptable levels; enabling transplantation in all patients





NCT024226684

SUBJECTS

17 Patients (US)

DOSES/FOLLOW UP TIME

0.24 mg/kg 180 days

MAIN OBJECTTIVES

- Safety in combination with Cedars Sinai's "standard protocol" for desensitization of highly sensitized patients
- · Efficacy in preventing AMI

STUDY DESIGN

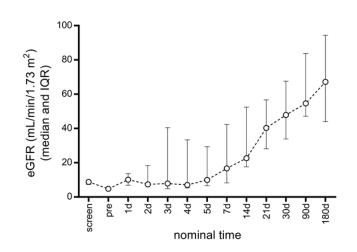
- Investigator initiated study
- Investigator sponsored IND
- Imilitidase to desensitize patients previously treated with rituximate and IVIg
- · Deceased donors onl

STATUS

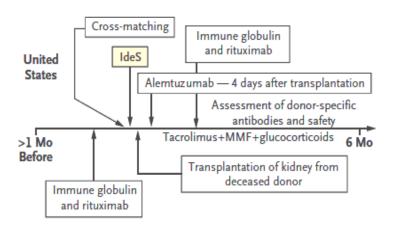
Completed

The 04 study proved safety and efficacy with Cedar Sinai's standard protocol (rituximab and IVIg)

Graft function (eGFR) post six months



Cedar's desensitization protocol in combination with imlifidase







NCT02790437

SUBJECTS

18 Patients (US+Sweden+France) 19 safety set, 18 efficacy set

DOSES/FOLLOW UP TIME

0.25 mg/kg 180 days

MAIN OBJECTTIVES

Efficacy in creating a negative crossmatch test

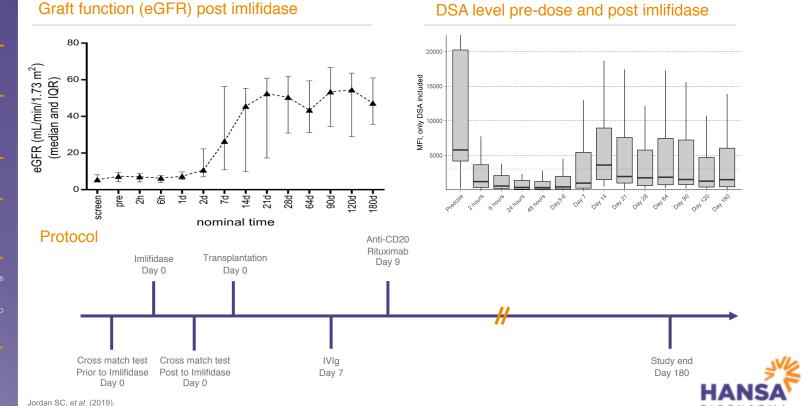
STUDY DESGIN

 Multicenter, multinational, singlearm, open-label Included patients who may have had prior unsuccessful desensitization or patients in whom it was unlikely to be effective

STATUS

Complete

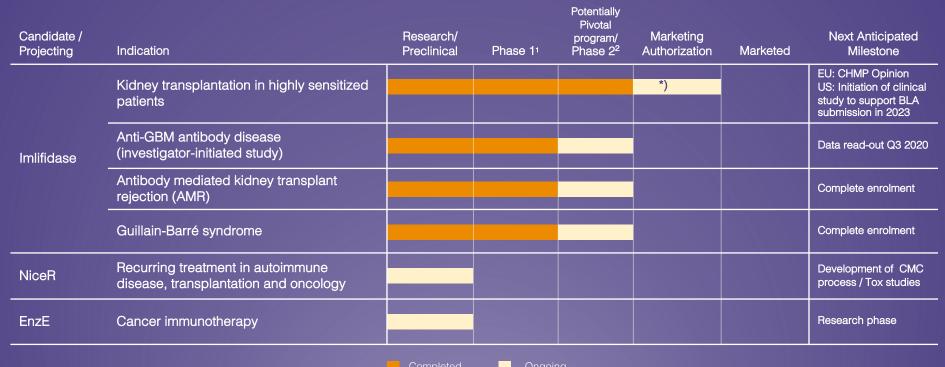
The 06 study showed proved safety and efficacy in making highly sensitized patients eligible for kidney transplantation



Clinical development programs

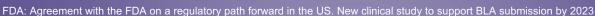


Broad pipeline in transplantation and auto-immune diseases



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 post-approval study would need to be executed in case of approval.





² Lorant et al American Journal of Transplantation and 03+04 studies (Jordan et al New England Journal of Medicine)

Anti-GBM, a rare acute autoimmune disease affecting kidneys and lungs; Enrollment completed in Q1 2020

2/3 of Anti-GBM patients lose kidney function²

- Indication: Antibodies are directed against an antigen intrinsic to the glomerular basement membrane (GBM) causing acute injury of kidney and/or lung
- Anti-GBM affects 1.6 in a million people annually with majority of patients losing their kidney function^{1,2}, requiring chronic dialysis and kidney transplantation.
- The study is an open label investigator-initiated Phase 2 with Professor Mårten Segelmark at Linköping- and Lund University Hospital as the sponsor and principal investigator
- The study is designed to evaluate the safety and tolerability of imlifidase in patients with severe anti-GBM disease on top of standard care consisting of plasmapheresis, steroids and cyclophosphamide.
- 15/15 patients enrolled in anti-GBM across 5 European countries. First data read-out expected in Q3 2020.
- Our Anti-GBM program obtained Orphan Drug designation from both FDA and European Commission (2018)



Anti-GBM Phase 2

CLINICALTRIALS.GOV ID

NCT03157037 (Since March 2017)

SUBJECTS

15 patients targeted. Patients will be monitored for six months

Recruitment at 15 clinics

DOSES/FOLLOW UP TIME

Dosage 0.25mg/kg 180 days follow

MAIN OBJECTTIVES

 Primary objective is to evaluate the safety and tolerability of imlifidase on background of standard of care and assess efficacy based on rena function at six months after treatment

STUDY DESIGN

- Open label, multicenter, single arm Phase 2 study with adverse renal prognosis
- Investigator initiated study

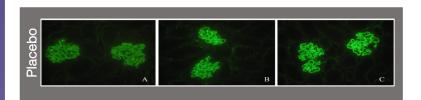
STATUS

Ongoing

28

Favourable pre-clinical studies show that imlifidase degrades IgG bound to the GBM in vivo; preventing renal damage in animals

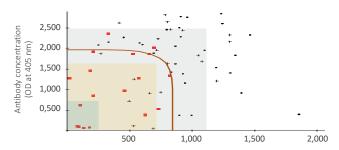
Mouse anti-rabbit IgG (Fc specific)





Anti-GBM creatinine and antibody concentration

 Both creatinine and levels of antibodies predict outcome and we expect that imlifidase can treat the disease by degrading IgG bound to the GBM



Serum creatinine concentration at diagnosis (µmol/l)

Inclusion criteria

Inclusion: Toxic anti-GBM antibodies level as considered by the investigator. eGFR < 15 ml/min/1.73 m2 or if the patient is non-responsive to standard treatment, and has lost >15 ml/min/1.73 m2 after start of treatment

Exclusion: Anuria for more than 2 days (less than 200 ml during last 48 hours); Dialysis dependency for more than 5 days



Yang et al. Favorable pre-clinical studies: "Imlifidase degrades IgG bound to the GBM in vivo, thereby preventing renal damage in this animal model. Nephrology Dialysis Transplantation, 2010;25(8): 2479-86.

Long term graft survival is challenged by antibody mediated rejection post transplantation

There is no approved treatment for AMR

- Active antibody mediated rejection after transplantation occurs in 10-15% of kidney transplants¹ or ~ 3,200^{2,3} new patients annually⁴ and is a significant challenge to long term graft survival
- Today's standard of care include plasma exchange, and treatment with steroid and IVIg. AMR patients not treated successfully risk graft failure, dialysis and return to the waitlist
- The AMR Phase 2 study is a randomized, open-label, multicenter, active control study designed to evaluate the safety and efficacy of imlifidase in eliminating donor specific antibodies (DSAs) in the treatment of active episodes of acute AMR in kidney transplant patients.
- 2/30 patient treated with imlifidase in AMR. 6/8 sites have been initiated to recruit patients in the US, Europe and Australia.
- Enrollment is expected to be completed towards the end of 2020. Data read out expected 2H 2021



¹ Puttarajappa et al., Journal of Transplantation, 2012, Article ID 193724.

² Jordan et al., British Medical Bulletin, 2015, 114:113-125.

³ http://www.irodat.org.

⁴ Seven major markets – US, Germany, UK, France, Spain, Italy, and Japan



New AMR Phase 2 study initiated to test imlifidase ability to reduce the amount of DSA in AMR patients post transplantation

CLINICALTRIALS.GOV ID

NCT03897205 (2019

SUBJECTS

30 patients targeted (20 patients will be treated with imlifidase and 10 with Plasma exchange). Recruitment from 8 sites in the U.S., EU and Australia.

DOSES/FOLLOW UP TIME

1 dose of imlifidase (0.25 mg/kg) o 5-10 sessions of plasma exchange

MAIN OBJECTTIVES

- Imlifidase ability to reduce the amount of DSA in comparison with plasma exchange in patients who have an active AMR post transplantation
- Ensure safety for patients

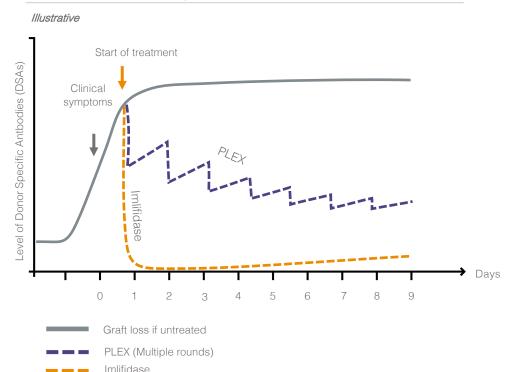
STUDY DESIGN

 Randomized, open-label multicenter, active control study, designed to evaluate the safety and efficacy of imilifidase in eliminating DSA in active AMR

STATUS

ngoing 30

Potential of using imlifidase vs. PLEX in AMR





Guillain-Barré syndrome is an acute autoimmune attack on the peripheral nervous system

GBS can affect anyone at any age

- GBS is an acute autoimmune attack on the peripheral nervous system, which rapidly and progressively weakens extremities.
- Only parts of the patients fully recover from GBS, thus a high unmet medical need for new treatments; 40% lose strength and have pain while mortality is 3-7% mortality
- Addressable population of ~ 11,000¹ per year in 7MM²
- Current Standard of Care is treatment with IVIG or PLEX
- The new Phase 2 study is an open-label, single arm, multi-center study evaluating the safety, tolerability and efficacy of imlifidase in GBS patients in combination with standard of care intravenous immunoglobulin (IVIg)
- 2/30 patients enrolled. 6/10 sites are recruiting patients across France, UK and the Netherlands. Enrollment expected to be completed in H1 2021. Data read out expected H1 2022
- In 2018, the FDA granted Orphan Drug Designation to imlifidase for the treatment of GBS



¹ McGrogan et al. Neuroepidemiology 2009;32(2):150-63.

² 7MM = Seven major markets – US, Germany, UK, France, Spain, Italy, and Japan



New Phase 2 study initiated in GBS to evaluate safety, tolerability and efficacy of imlifidase in GBS patients

CLINICALTRIALS.GOV ID

SUBJECTS

DOSES/FOLLOW UP TIME

Dosage 0.25mg/kg follow up 180

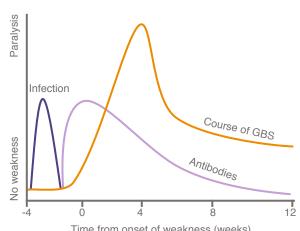
MAIN OBJECTTIVES

STUDY DESIGN

STATUS

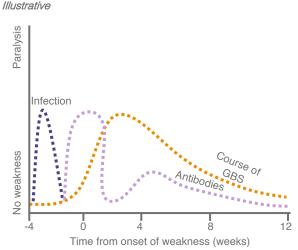
Today's Standard of Care IVIg or PLEX





Time from onset of weakness (weeks)

Potential with imlifidase





Pre-clinical programs

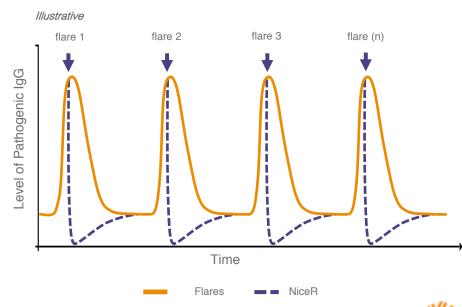


"NiceR" – new set of enzymes for repeat dosing; potentially enabling treatment of relapsing diseases

IgG-cleaving enzyme with lower immunogenicity

- Potential application for a broad array of indications, including reoccurring AMR, relapsing autoimmune diseases and oncology
- The first selected promising new drug candidate from the NiceR program is an IgG-cleaving enzyme (cysteine peptidase) with characteristics based on a homolog to imlifidase, but with lowered immunogenicity.
- Development of a GMP-manufacturing process has been initiated

NiceR can potentially inactivate flares



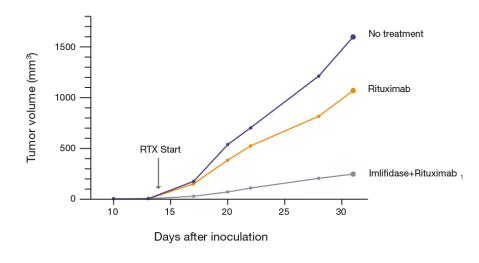


EnzE can potentially improve the therapeutic effect in oncology

Proof of concept demonstrated in vivo for mice

- Enzyme based antibody enhancement through pre-treatment
- The abundance of normal IgG in blood interferes with therapeutic monoclonal antibodies
- Pre-treatment with imlifidase / NiceR has potential to significantly potentiate antibody-based cancer therapies
- Suppressive effect of IVIg on effector cell function abrogated by imlifidase
- Imlifidase can significantly improve the therapeutic effect of rituximab

Mice with human IgG (~9mg/mL)



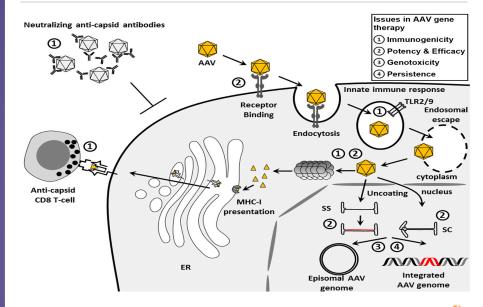


Exploring imlifidase in gene therapy as a potential pre-treatment to inactivate neutralizing antibodies

Nabs are immunological barriers in gene therapy

- Gene therapy programs may exclude up to 40% of patients from clinical studies and approved treatments due to presence of neutralizing antibodies¹
- Most gene programs use viral vectors originating from Adeno-Associated Viruses (AAV) for gene insertions in vivo; however in many cases the human immune system have developed preformed neutralizing anti-AAV that prevents effective and safe use
- 187 in vivo programs are ongoing in gene therapy including 73 clinical stage programs, while two *in vivo* gene therapy products have been approved by FDA (Luxturna from Spark Therapeutics and Zolgensma from Novartis)

Idea is to enable gene therapy despite Nabs

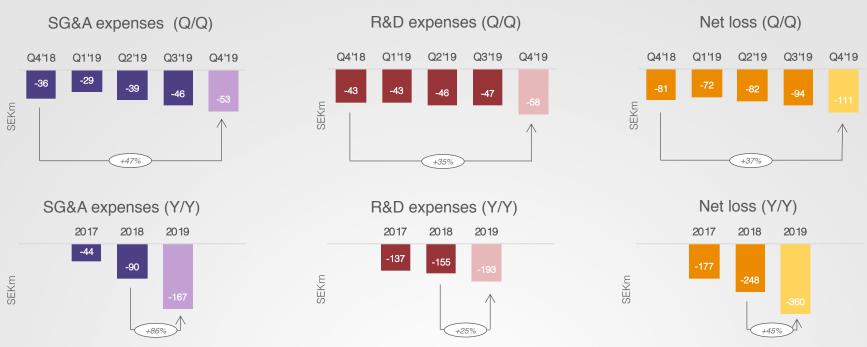






Financials

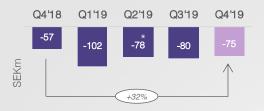
SG&A and R&D spending increase in preparation for potential conditional approval in EU and pipeline advancement





Cash position stood at SEK 601m (~USD 60m) at year-end 2019; Hansa Biopharma is financed into 2021

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)





Ownership in Hansa Biopharma

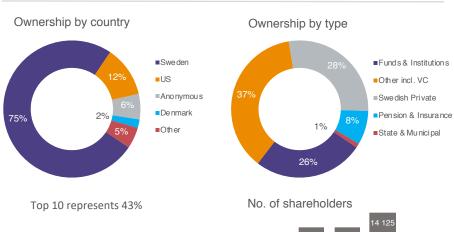
Top 10 ownership as per December 31, 2019

Name	No. of shares	Ownership in pct.
NXT2B	5 755 379	14.4
Invesco	2 116 818	5.3
Thomas Olausson	1 667 654	4.2
Avanza Pension	1 554 486	3.9
Third Swedish National Pension Fund	1 316 470	3.3
Gladiator	1 150 000	2.9
Fourth Swedish National Pension Fund	1 112 044	2.8
Vanguard	930 991	2.3
Swedbank Funds	892 944	2.2
ClearBridge, LLC	691 486	1.7
Other	22 873 835	57.0
Outstanding A shares in total	40 026 107	100.0

Classification of ownership

43%
Top 10 owners

Other





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Calendar

Feb 27-28, 2020

Mar 2, 2020	Cowen Annual Health Care Conference, Boston
Mar 4, 2020	Road Show Argot New York City
Mar 4, 2020	Carnegie Nordic Healthcare Seminar, Stockholm
Mar 26, 2020	Kempen Expert Call with Prof. Mårten Segelmark on anti-GBM
Apr 2, 2020	Annual Report 2019
Apr 21-22, 2020	Kempen Life Sciences Conference, Amsterdam
Apr 28, 2020	Interim Report Jan-Mar 2020
May 5, 2020	Annual General Meeting
May 18, 2020	UBS Global Healthcare Conference, NYC
May 19, 2020	RBC Global Healthcare Conference, NYC
May 26, 2020	ABG Life Science Summit, Stockholm
May 27, 2020	Ökonomisk Ugebrev Life Science Conference, Copenhagen
Jul 16, 2020	Interim Report Jan-Jun 2020
Sep 16-17, 2020	BofAML Global Healthcare Conference, London
Oct 22, 2020	Interim Report Jan-Sep 2020
	LANCA

Road Show Cowen Chicago/Dallas

