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Innovators in the treatment of diuretic-resistant fluid overload

liver disease – malignant ascites – heart failure

Investor presentation – May 2021

Disclaimers

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Regulatory disclaimer:

- The alfapump[®] system has not yet received regulatory approval in the United States and Canada. Any statement in this presentation about safety and efficacy of the alfapump[®] system does not apply to the United States and Canada. In the United States and Canada, the alfapump[®] system is currently under clinical investigation (POSEIDON Study) and is being studied in adult patients with refractory or recurrent ascites due to cirrhosis. For more information regarding the POSEIDON clinical study visit www.poseidonstudy.com.
- DSR[®] therapy is still under development and it should be noted that any statements regarding safety and efficacy arise from ongoing pre-clinical and clinical investigations which have yet to be completed. DSR[®] therapy is currently not approved for clinical research in the United States or Canada. There is no link between DSR[®] therapy and ongoing investigations with the **alfa**pump[®] system in Europe, the United States or Canada.

COVID-19 disclaimer:

- Sequana Medical is closely following the evolution of the COVID-19 global health crisis and is in constant dialogue with its partners to assess the impact and adapt operations accordingly.
- Sequana Medical has put in place mitigation plans to minimise delays. The impact of increased demands on the healthcare systems, limitations on non-essential hospital visits and procedures, social-distancing and travel restrictions may result in further delays to execution of clinical studies and impact sales.
- Sequana Medical will continue to update the market as needed and whenever possible.

Note:

• alfapump[®] is a registered trademark. DSR[®] and alfapump DSR[®] are registered trademarks in Benelux.

Sequana Medical NV

Founded in 2006

Gent, Belgium (HQ): corporate, clinical, commercial

Zurich, Switzerland: manufacturing, engineering, QA/RA

~60 employees

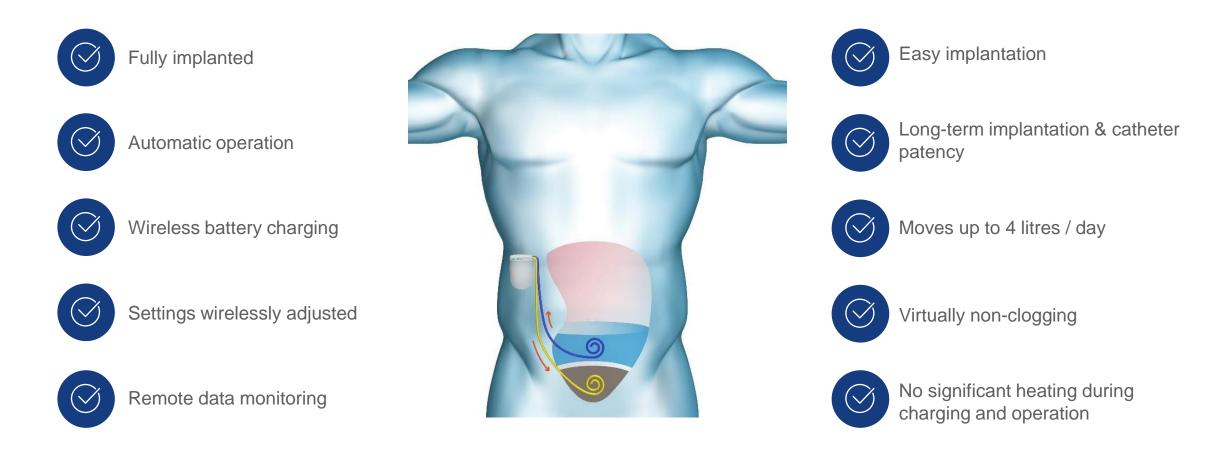
Euronext Brussels: SEQUA



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alfapump® platform

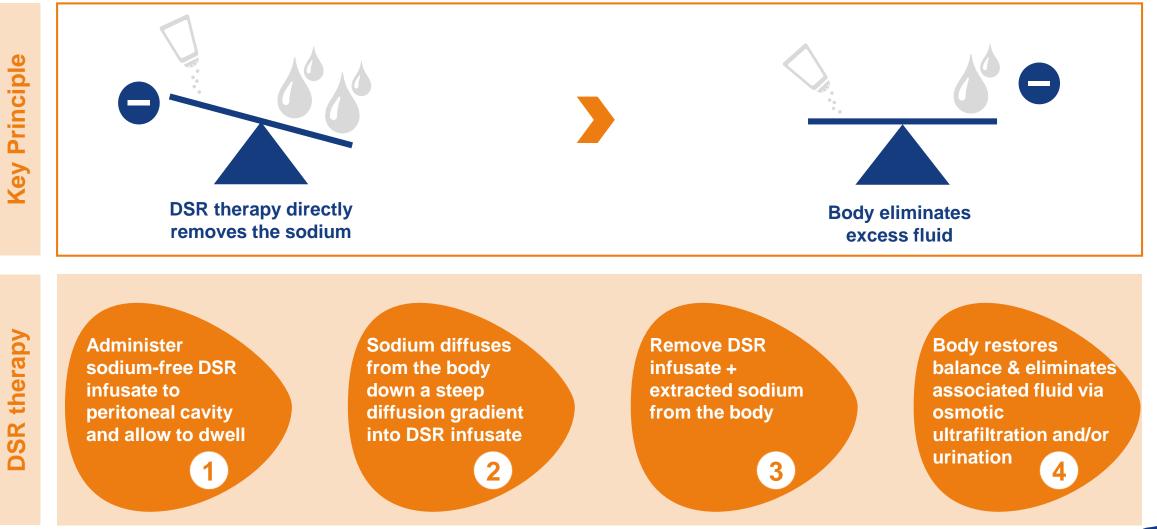
Using the bladder to treat fluid overload



Strong IP barriers through extensive patent portfolio & know-how

Direct Sodium Removal (DSR®) platform

We remove the sodium and then the body "does the math" to maintain serum sodium balance



Two pillars of growth – $\mathbf{\in}$ billion opportunities



alfapump®

Liver Disease (NASH)

Proven step change in liver refractory ascites and malignant ascites

Over 850 devices implanted

> €3 Bn / year market opportunity⁽¹⁾



POSEIDON pivotal study ongoing

Self-commercialisation

alfapump DSR®

Heart Failure

Breakthrough approach to fluid overload in heart failure

Clinical proof-of-concept achieved

> €5 Bn / year market opportunity⁽²⁾

SAHARA DESERT study to start Q2 2021

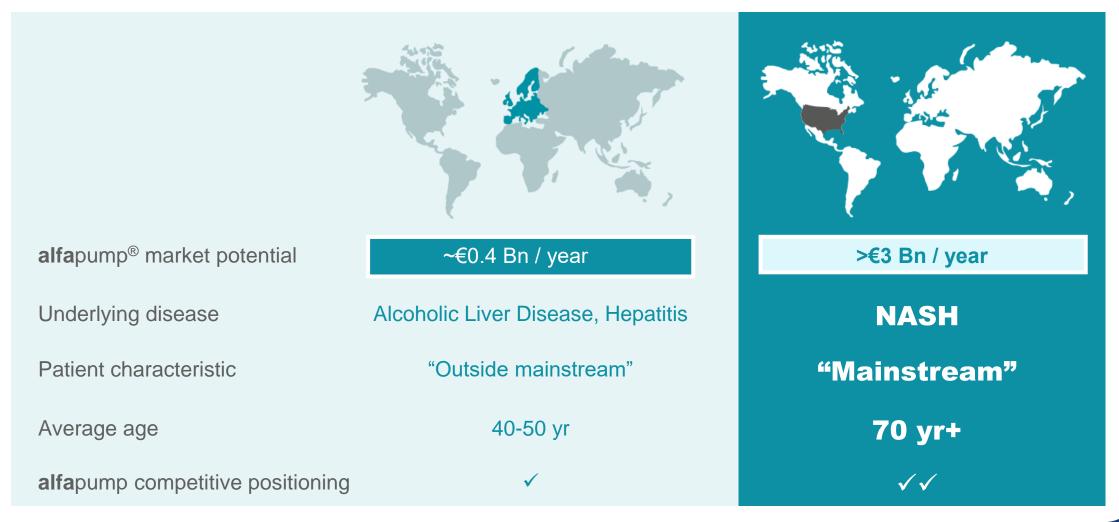
Partnering after US efficacy study

Built upon proven European clinical & commercial experience

Source 1: Management estimate in US within 10-20 years, that is inclusive of estimated growth in prevalence of NASH for the US based on GlobalData Epidemiology Forecast to 2026 Source 2: Management estimate in US & EU by 2026 based on GlobalData Heart Failure Epidemiology Forecast to 2026; Costanzo et al. (2007). Kiglore et al (2017)

NASH drives US market attractiveness

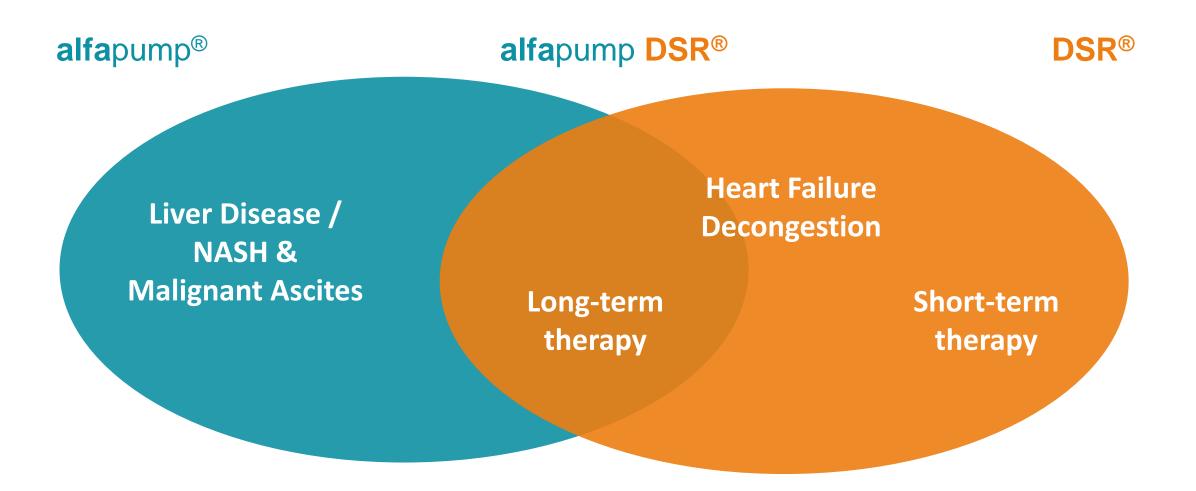
Stronger competitive position in a much larger and dynamic market



Notes: current estimated EU Liver market: Data from 1980-2010, death rates between 9-12.4 per 100,000; Mokdad et al., 2014, Management estimates of 7.5% cirrhosis patients that die per year based on experts feedback. forecast US Liver market: Management estimate that is inclusive of estimated growth in prevalence of NASH for the US based on GlobalData Epidemiology Forecast to 2026.

Building Sequana Medical on two platforms

Complementary approaches to diuretic-resistant fluid overload



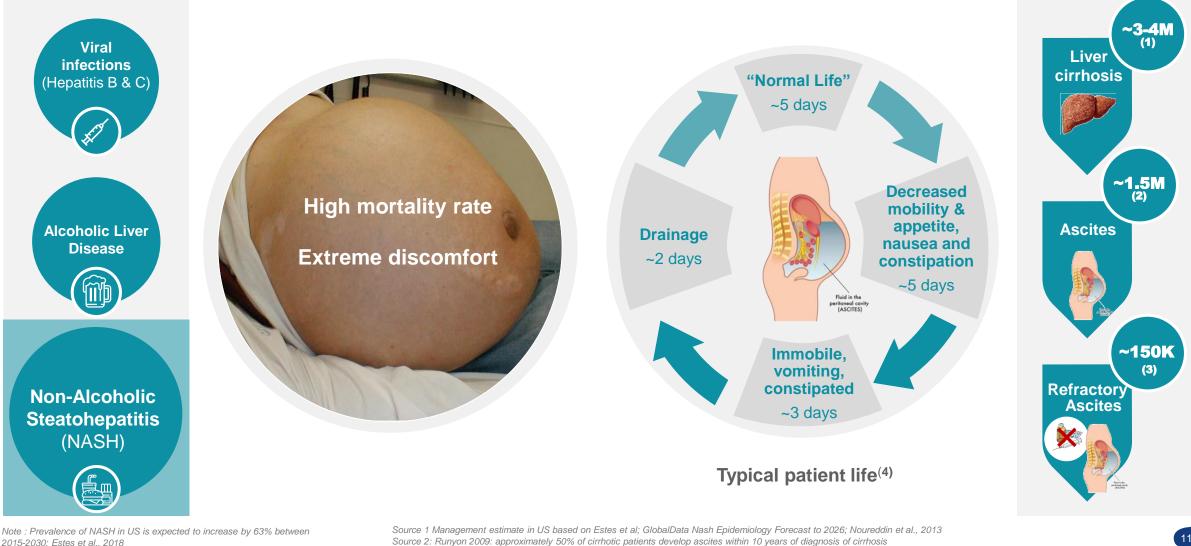
alfapump® Proven step change in the management of liver refractory ascites and malignant ascites

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US forecast

Liver cirrhosis and refractory ascites

A key complication of liver cirrhosis, with a dramatic impact on quality of life



Source 3: Ginès et al., NEJM 2004: refractory ascites occurs in 5-10% patients with ascites

Source 4: Presentation of Dr. Rajiv Jalan at EASL in 2018, Large Volume Paracentesis (LVP) treatment cycle for refractory ascites

Cancer and malignant ascites

Severe complication of late-stage cancers

Fluid accumulation in the abdomen due to drainage of lymph system
 Breast and ovarian cancer have longest survival with ascites(1)
 Severe impact on quality of life
 Reduces ability to undergo anti-cancer treatment

Clear unmet need for improving Quality of Life and the ability to increase cancer treatment intensity

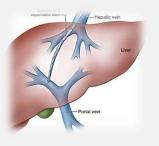
Severe limitations of existing therapies

Diet / Diuretics



Resistance, Complications

Transjugular Intrahepatic Portosystemic Shunt (TIPS)



Complications, Contraindications

Drainage ("Large Volume Paracentesis / LVP")



Painful, Poor Quality of Life, Short Term Benefit





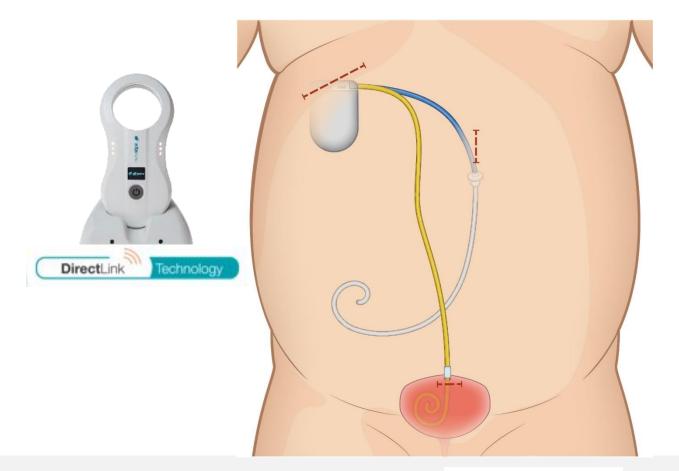
High Cost, Limited Availability

alfapump®



alfapump® for long-term treatment

Over 850 implants and hundreds of years of patient experience







1913 DGVS Deutsche Gesellschaft für Gastroenterologie, Verdauungs- und Stoffwechselkrankheiten



Strong clinical and economic rationale



Reduced burden of disease



Improved patient QoL



Cost savings for hospitals and payers

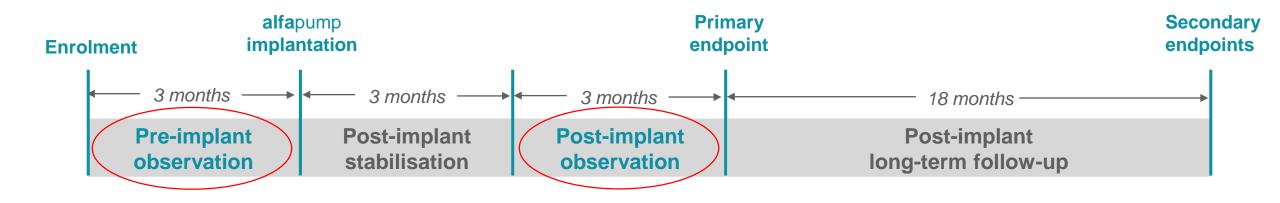
Estimated treatment cost / patient*:



* Management estimate of US treatment costs, assuming no complications

North American Pivotal Study (POSEIDON) underway

Pivotal Cohort of up to 50 patients implanted; Roll-In ("training") cohort of up to 30 patients



POSEIDON Study Endpoints

Primary efficacy: 1) 50% reduction in average monthly frequency of Therapeutic Paracentesis ("TP") post-implant vs. pre-implant 2) 50% of patients achieve a 50% reduction in the requirement for TP post-implant vs. pre-implant
 Primary safety: Rate of alfapump related re-interventions adjudicated by the Clinical Events Committee (CEC)
 Secondary: QoL (SF36, Ascites-Q), nutritional status, health economics, safety (device and/or procedure-related AEs), survival

Interim POSEIDON: Positive for primary endpoints

Data from first 13 Roll-In patients implanted with the alfapump®

EFFICACY

- ✓ Over 90% reduction in mean frequency of Therapeutic Paracenthesis (TP) post-implant vs.
 pre-implant (primary endpoint of >50% reduction)
- ✓ All patients experienced at least a 50% reduction in the mean frequency of TP per month (primary endpoint of >50% of patients)

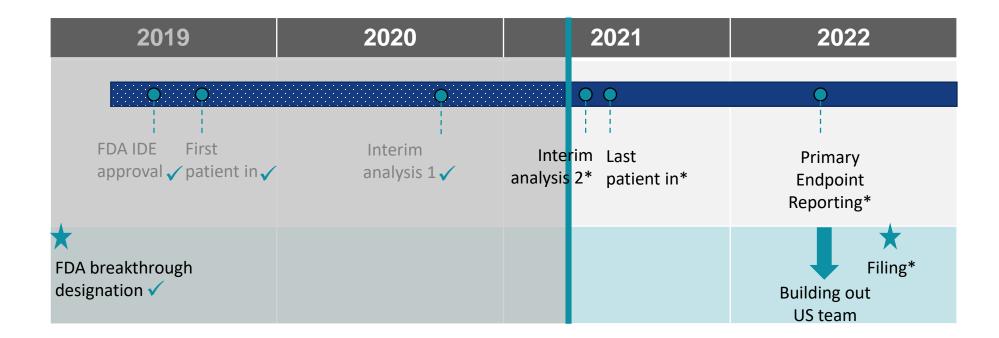
SAFETY

✓ Safety profile in line with expectations

QUALITY OF LIFE

✓ Indication of rapid and persistent clinically relevant improvement in patients' quality of life

Targeting announcement of primary endpoint in Q2 2022



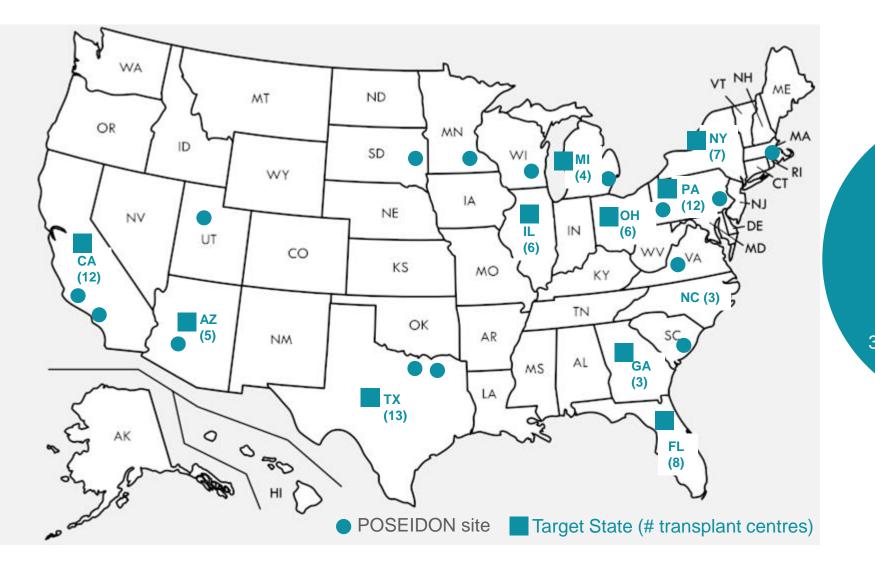


MCIT & NTAP – CMS initiatives for breakthrough devices to further support coverage & reimbursement for the **alfa**pump

* Subject to further developments related to the ongoing COVID-19 pandemic

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US commercialisation through our specialty salesforce



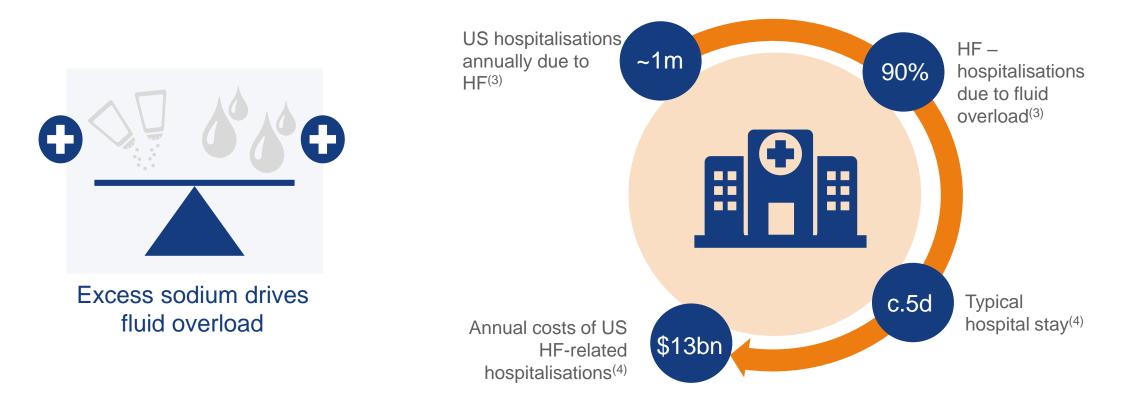
Initial focus on key transplant centres ~50-person team: 35 sales reps, 10 clinical, 5 corporate

alfapump DSR® Breakthrough approach to fluid overload in heart failure built on proven alfapump® platform

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Diuretic-resistant fluid overload in heart failure

Key clinical challenge and driver of costs

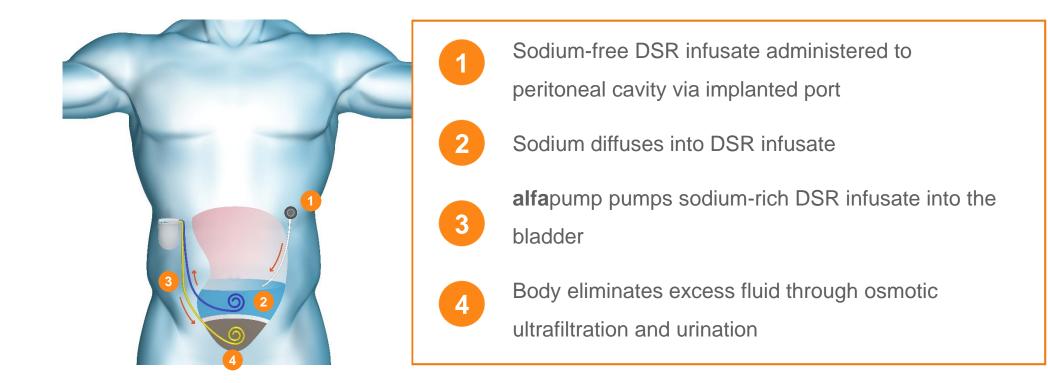


- 40% of heart failure patients on IV loop diuretics have a poor response⁽¹⁾
- 24% re-admission rate at 30 days⁽²⁾

Source 1: Testani, Circ Heart Failure, 2014 & 2016; Source 2: Ross et al. (2010); Source 3: Costanzo et al., J. Am. Coll., 2007; Source 4: Kilgore et al. (2017)

alfapump DSR® leveraging proven alfapump® platform

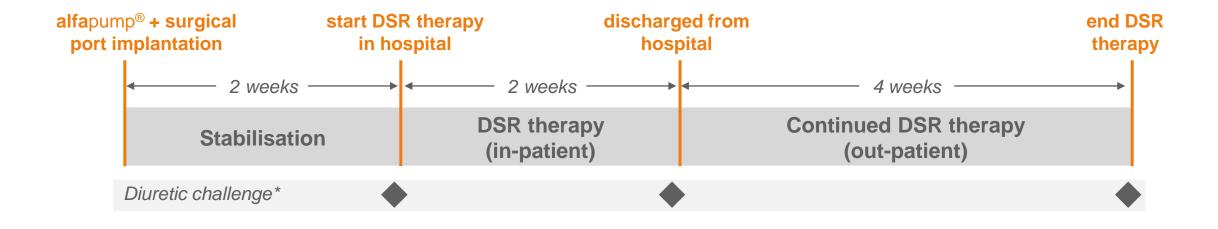
Fully implanted system for long-term DSR[®] therapy



Fundamental patents to reduce fluid overload in heart failure patients granted in the US and Europe

RED DESERT – The first repeated DSR® therapy study

Repeated dose proof-of-concept study of alfapump DSR® in stable heart failure patients on high dose diuretics



Study Endpoints

- **Primary:** absence/rate of device, procedure and/or therapy related serious adverse events
- **Secondary:** ability of the **alfa**pump DSR to maintain a neutral sodium balance in the absence of diuretic therapy and the sustained effect of DSR to maintain euvolemia
- **Exploratory:** impact of DSR to restore response to diuretics following DSR treatment

RED DESERT – Highly effective management of fluid & sodium

No loop diuretics required during study despite mean baseline dose of >300 mg/day furosemide equivalents

	Ejection Fraction (%)	NT-proBNP (pg/mL)	Daily Dose of loop diuretics (mg)**	
Subject	At baseline	At baseline	At baseline	During DSR Treatment (D0 - 42)
101-001	26	6,110	80	0
101-002	27	2,863	200	0
101-003	28	1,536	400	0
101-005	25	1,628	120	0
101-006*	23	1,963	80	0
101-007*	26	5,927	300	0
101-008*	20	7,853	600	0
101-009†	20	8,831	800	0
Mean (± SD)	24 ± 3	4,589 ± 2,945	323 ± 263	

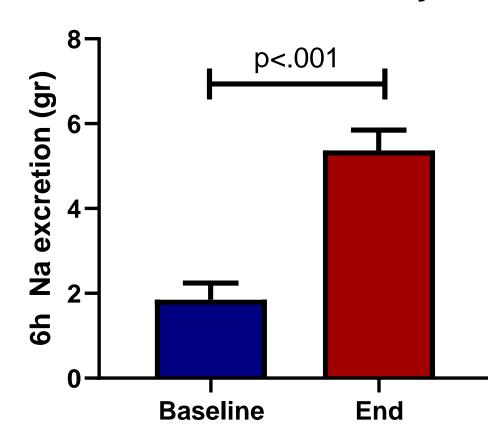
Study recruited severely ill heart failure patients on very high doses of oral loop diuretics

* in follow-up extension with DSR; † subject 101-009 died at D3 ** loop diuretics in furosemide equivalents (mg)

NT-proBNP: N-terminal-pro hormone B-type Natriuretic Peptide – analysed in local lab

RED DESERT – Dramatic improvement in diuretic efficiency

Over 250% increase in mean diuretic response*



Diuretic efficiency

* 6 hour Na excretion following administration of 40mg intravenous furosemide; paired statistical analysis of patients with baseline and D42 value (N=7)

RED DESERT – Long term improvement in diuretic response

79% reduction in mean diuretic dose at median follow-up of 10 months

	Daily Dose of loop diuretics (mg)***			
Subject	At baseline	Time since last DSR study treatment**	Current Daily dose (mg)***	Reduction in diuretic dosage
101-001	80	12.5 months	40	-50 %
101-002	200	12.5 months	80	-60 %
101-003	400	10 months	80	-80 %
101-005	120	10.5 months	40 E3D	-89 %
101-006*	80	8.5 months	20 BIW	-93 %
101-007*	300	2 months	40 TIW	-94 %
101-008*	600	2 months	80	-87 %
101-009†	800	NA	NA	NA

* in follow-up extension with DSR; [†] subject 101-009 died at D3

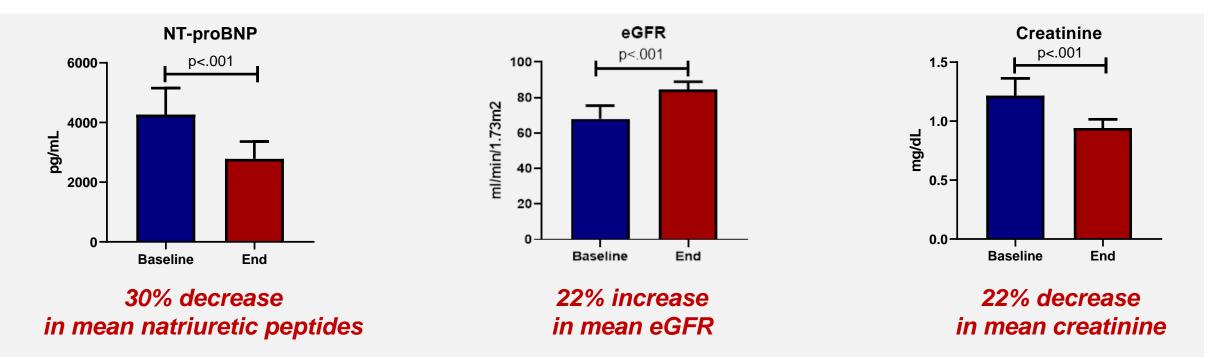
** excluding DSR treatment in follow-up extension

*** loop diuretics in furosemide equivalents (mg)

E3D: every third day; BIW: two times per week; TIW: three times per week

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RED DESERT – Significant improvement in cardio-renal function*



"The simultaneous normalisation of diuretic response and improvement in cardio-renal status of the RED DESERT patients is a never before seen treatment effect and could translate into important long-term clinical benefits in heart failure patients" – Dr. Testani

* Paired statistical analysis of patients with baseline and D42 value (N=7)

NT-proBNP: N-terminal-pro hormone B-type Natriuretic Peptide (analysed in local lab); eGFR: estimated glomerular filtration rate

RED DESERT – Adverse event overview

No clinically significant changes in serum sodium levels / no progressive hyponatremia

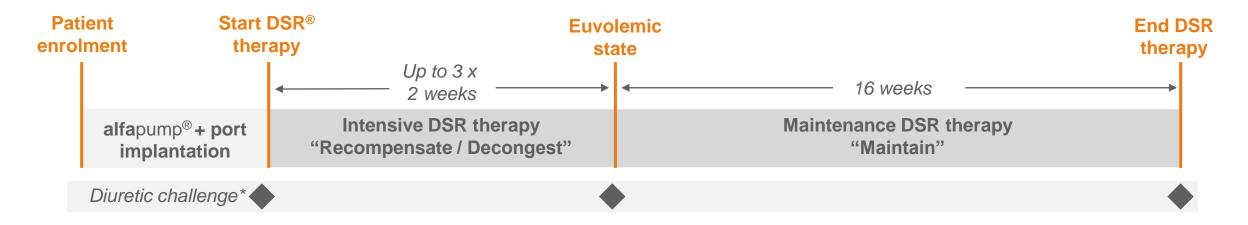
•	 Study system related adverse events: 2x SAE blockage of peritoneal catheter in 1 patient 1x site AE hematoma in 1 patient 	3 in 2 patients
•	Therapy related adverse events:1x AE abdominal discomfort during pumping phase in 1 patient	1 in 1 patient
•	 Implant procedure related adverse events: 1x AE site hematoma in 1 patient (see above "Study System related AE") 1x AE hematuria in 1 patient 	2 in 2 patients
•	 Other SAEs: 1x SAE TIA in 1 patient (D29 - D35) DMC: possibly related to study therap 	2 in 2 patients by/procedure but unlikely related to a

• 1x SAE Cardiac Arrest 1 patient (D3)

DMC: possibly related to study therapy/procedure but unlikely related to device Site PI: not related to study therapy, procedure or device

SAHARA DESERT - On track to start in Q2 2021

20 decompensated heart failure patients with residual congestion on high doses of loop diuretics



Study Endpoints

- **Primary:** safety and tolerability of **alfa**pump DSR[®] therapy
- Secondary: feasibility of DSR therapy to restore and maintain euvolemia without additional loop diuretics
- Exploratory: evaluate potential impact of SGLT-2 inhibitors on DSR therapy**

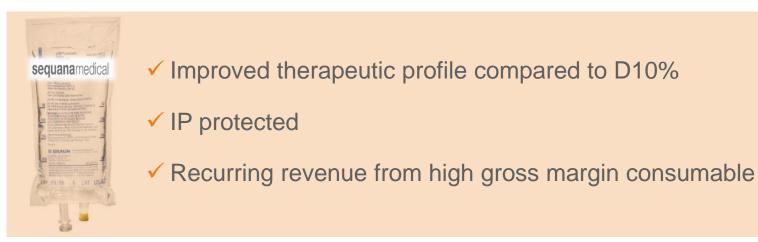
Interim results expected Q4 2021 / Top-line results expected H2 2022

* 40 mg intravenous furosemide to evaluate diuretic response (6 hour sodium and fluid excretion)

** patients will be randomised 1:1 to DSR therapy +/- SGLT-2 inhibitor therapy

Development of proprietary DSR® Infusate 2.0 ongoing

- D10% was chosen as the initial DSR infusate for fastest proof-of-concept
- We are developing our proprietary next-generation DSR infusate:



Note: This image is intended for illustration purposes only

• Pre-clinical development work ongoing & preparing for CMC activities

Short-term DSR® – Expanding development programme

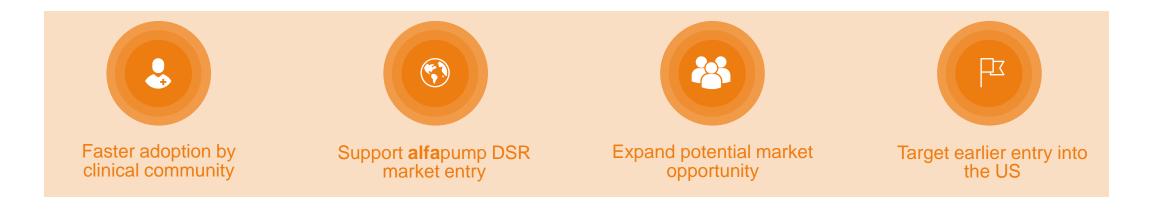
Building upon the success of RED DESERT to extend and strengthen the DSR franchise

Short-term DSR therapy:

- "one off" ~2 weeks intensive DSR treatment
- With peritoneal catheter (w/o alfapump®)

Long-term alfapump DSR[®] therapy:

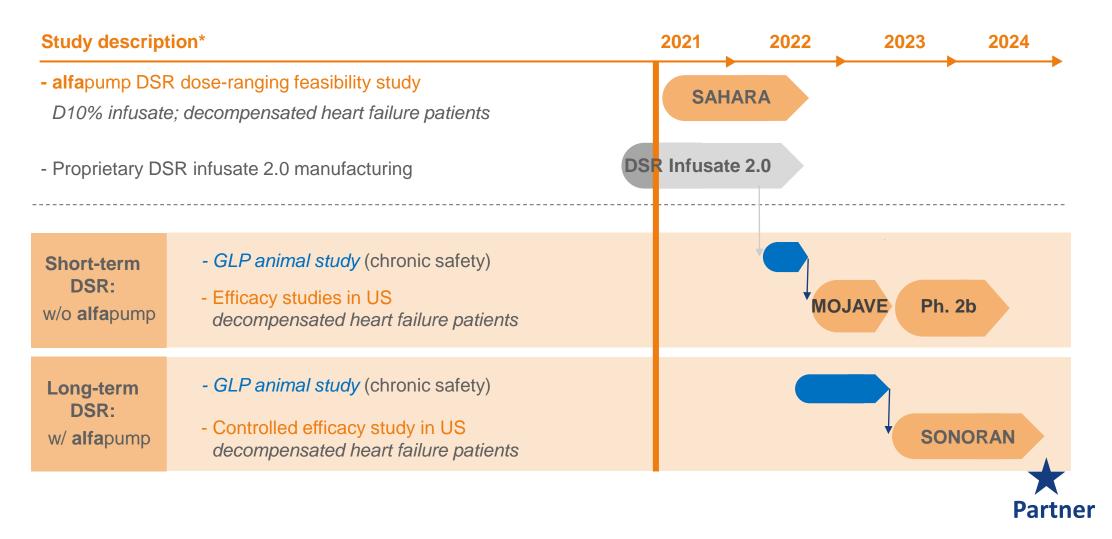
- Intermittent, recurring, intensive DSR treatment
- With alfapump



Both DSR therapies will target diuretic-resistant heart failure patients with residual congestion and aim to restore patients' diuretic response and cardio-renal status

DSR® and alfapump **DSR® development strategy**

Short-term DSR therapy extends portfolio



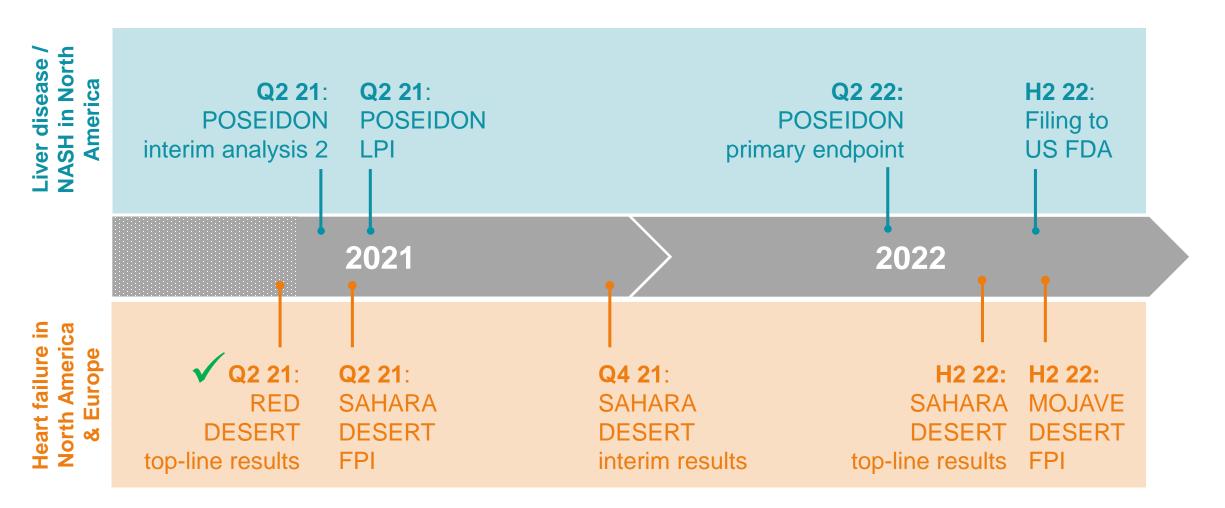
* Timelines subject to further developments related to the ongoing COVID-19 pandemic Description and timing of these studies are subject to change and/or feedback from applicable regulatory authorities

Outlook

Strong near term value drivers with clear long term potential

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Expected core value drivers & outlook



Note: Presented timelines are subject to further developments related to the COVID-19 pandemic

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Back-up



Strong organisation

Highly experienced leadership team supported by committed and well-reputed shareholders

Executive team:



lan Crosbie Chief Executive Officer







Oliver Gödje Chief Medical Officer





Gijs Klarenbeek Senior Medical Advisor



Martijn Blom Chief Commercial Officer



Timur Resch Global VP QM/QA/RA Andreas Wirth VP Engineering

Board of Directors:



Pierre Chauvineau Board Chairman



Jason Hannon Director



Ian Crosbie Chief Executive Officer



Rudy Dekeyser Director



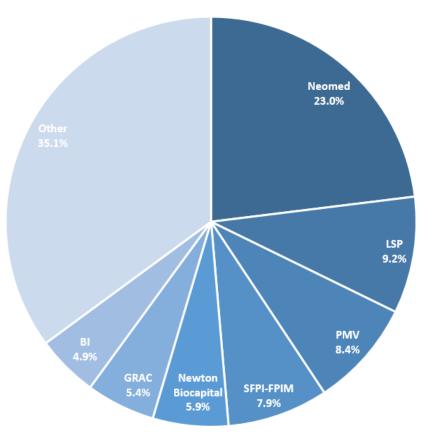


Erik Amble Director

Shareholders base and financial overview

Ticker: SEQUA – Euronext Brussels

- Outstanding shares: 18.5M
- Outstanding share options & warrants: 1.8M



• Analysts:

- KBC Securities Lenny Van Steenhuyse
- Kempen Ingrid Gafanhão
- Kepler Cheuvreux Matthias Maenhaut
- Mirabaud Daniel Jelovcan
- Cash (31 December 2020): €11.0M
- Equity financing in February 2021: €22.5M
- Cash runway into Q2 2022

POSEIDON – study cohorts

Patients with recurrent or refractory ascites due to liver cirrhosis in up to 20 centres across US and Canada

Two study cohorts with the same inclusion / exclusion criteria

Pivotal Cohort

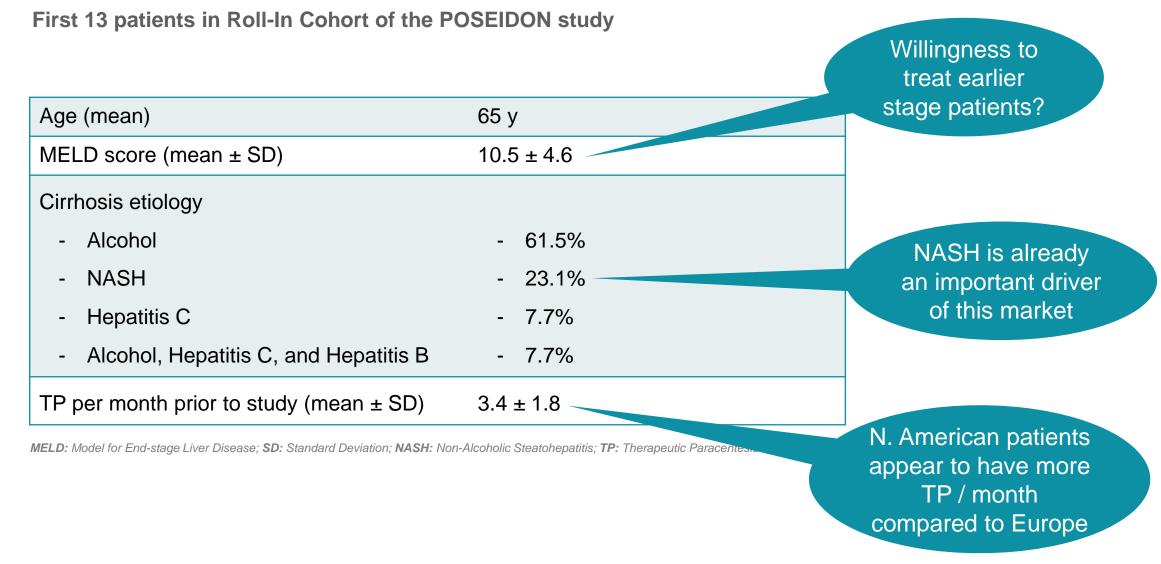
- Up to 50 patients implanted with the alfapump®
- For primary and secondary endpoint analysis

2 Roll-In Cohort 🔿 enables us to report interim data

- Up to 30 patients implanted with the alfapump
- To teach clinicians and medical teams at new centres how to use the **alfa**pump

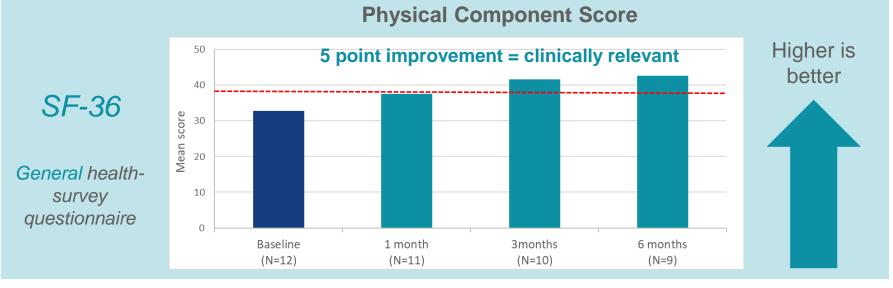
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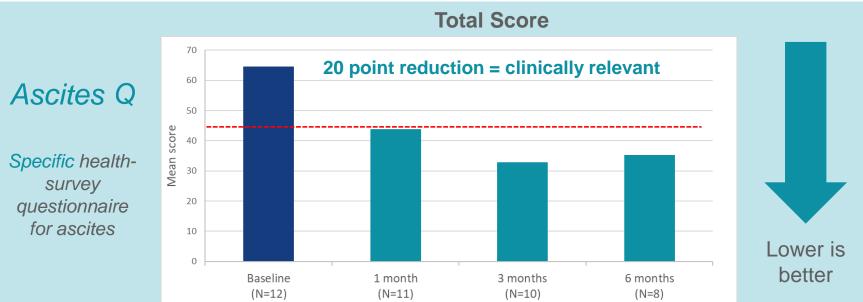
Cirrhotic patients with recurrent or refractory ascites



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POSEIDON interim: Indication of fast and persistent improvement in Quality of Life





Leading experts as Heart Failure Scientific Advisors



Dr. Maria Rosa Costanzo

Medical Director of the Edward Center for Advanced Heart Failure Medical Director Heart Failure Research for the Advocate Heart Institute



Dr. Javed Butler

Professor and Chairman of the Department of Medicine at the University of Mississippi Medical Center



Dr. Michael Felker

Professor of Medicine in the Division of Cardiology at Duke University School of Medicine Director of Cardiovascular Research at the Duke Clinical Research Institute and Vice-Chief for Clinical Research in the Division of Cardiology



Dr. Wilson Tang

Professor of Medicine at Cleveland Clinic Lerner College of Medicine at Case Western Reserve University



Dr. Jeffrey Testani

Associate Professor of Medicine and Director of Heart Failure Research at Yale University School of Medicine



Dr. Udelson

Chief of the Division of Cardiology at Tufts Medical Center Professor of Medicine and Radiology at Tufts University School of Medicine

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