

Forward-looking statements

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- Statements of targets, plans, objectives or goals for future operations, including those related to Novo Nordisk's products, product research, product development, product introductions and product approvals as well as cooperation in relation thereto,
- Statements containing projections of or targets for revenues, costs, income (or loss), earnings per share, capital expenditures, dividends, capital structure, net financials and other financial measures,
- Statements regarding future economic performance, future actions and outcome of contingencies such as legal proceedings, and
- Statements regarding the assumptions underlying or relating to such statements.

These statements are based on current plans, estimates and projections. By their very nature, forward-looking statements involve inherent risks and uncertainties, both general and specific. Novo Nordisk cautions that a number of important factors, including those described in this presentation, could cause actual results to differ materially from those contemplated in any forward-looking statements.

Factors that may affect future results include, but are not limited to, global as well as local political and economic conditions, including interest rate and currency exchange rate fluctuations, delay or failure of projects related to research and/or development, unplanned loss of patents, interruptions of supplies and production, product recalls, unexpected contract breaches or terminations, government-mandated or market-driven price decreases for Novo Nordisk's products, introduction of competing products, reliance on information technology, Novo Nordisk's ability to successfully market current and new products, exposure to product liability and legal proceedings and investigations, changes in governmental laws and related interpretation thereof, including on reimbursement, intellectual property protection and regulatory controls on testing, approval, manufacturing and marketing, perceived or actual failure to adhere to ethical marketing practices, investments in and divestitures of domestic and foreign companies, unexpected growth in costs and expenses, failure to recruit and retain the right employees, and failure to maintain a culture of compliance.

For an overview of some, but not all, of the risks that could adversely affect Novo Nordisk's results or the accuracy of forward-looking statements in this presentation, reference is made to the overview of risk factors in 'Risk management enables better decision-making' on pp 41-43 in the Annual Report 2018.

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Important drug information

- Victoza® is approved for the management of type 2 diabetes only
- Saxenda[®] is approved in the USA and the EU for the treatment of obesity only

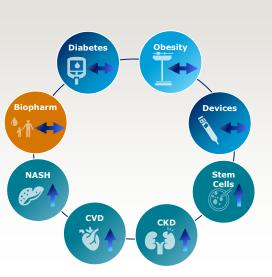
Note: All notes, sources and abbreviations for this presentation are found in the appendix.



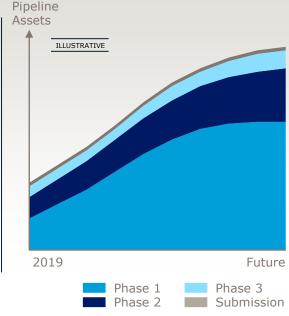


The future of R&D is to focus on increasing the number of clinical assets while maintaining industry-leading late-stage success

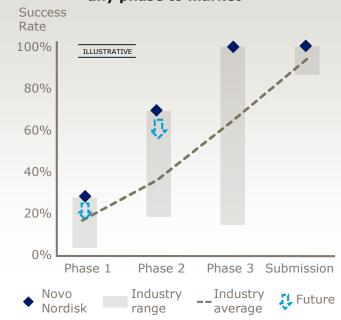
R&D investments will expand beyond historic focus



Increased clinical assets driving R&D investment



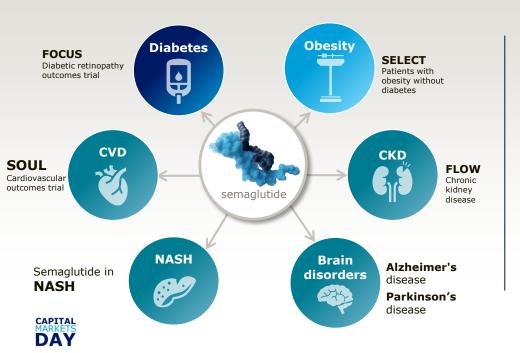
Industry-leading success rate¹ from any phase to market



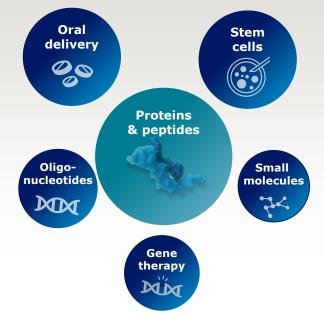


The increase in pipeline assets is driven by semaglutide as well as internal and external innovation

Semaglutide is the entry into adjacent therapies



Leveraging internal capabilities and partnerships to explore new platforms





Collaboration with partners facilitates accelerated breakthrough science

Novel treatments for metabolic disease



Oral Devices for protein and peptide drug delivery



Gene editing treatment for haemophilia



Small-molecule drug discovery and development



siRNA treatments



Combination treatments for NASH



Improving Beta Cell health



Glucose responsive insulin





Novel treatments for CVD



Sickle Cell Disease



Selected partnerships over the past 2 years

Gut-Brain-Axis target discovery for metabolic disease



Small molecule for treatment of NASH



Stem cell lines



Parkinson's disease









Collaboration with partners facilitates accelerated breakthrough science

siRNA treatments

Dicerna[®]

Combination treatments for NASH



Novel treatments for CVD



Stem cell lines



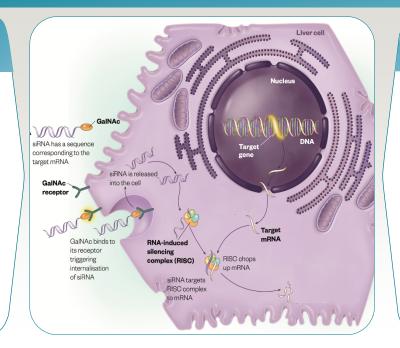




Novo Nordisk and Dicerna partner in the small interfering RNA drug modality space

Maintain competitive edge through new drug modality

- Current Novo Nordisk drug platform focus on proteins and peptides with targets on the surface of cells
- ~90% of molecular targets in T2D are intracellular
- siRNA allows for efficient and specific gene silencing
- Previously inaccessible drug targets, undruggable by small molecules, proteins and peptides



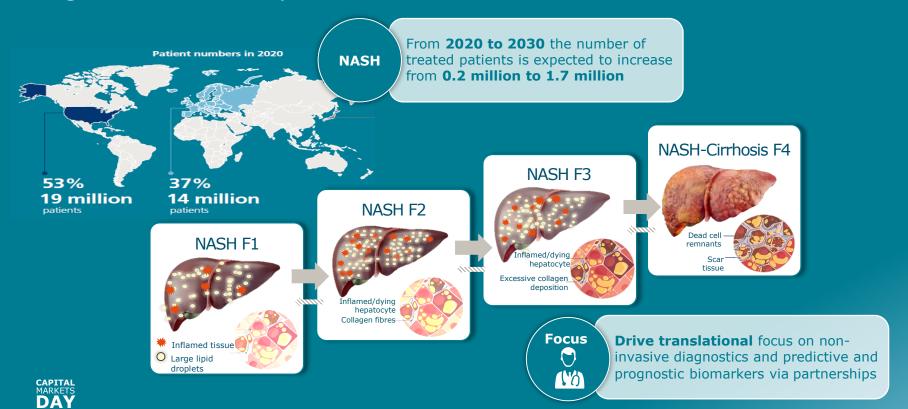
Dicerna's GalXC[™] RNAi technology platform

- Proprietary, **patented** RNAi technology
- Hepatocyte-selective targeting
- Subcutaneous route of delivery
- Well tolerated and long duration of action
- High target specificity predictable activity
- High therapeutic index broad applicability





NASH is a progressive disease with no existing treatment and low diagnosis rates today

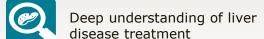


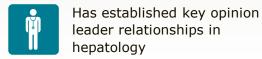
The collaboration with Gilead aims to bring therapies to people living with NASH

Gilead possess complementary skillsets



combination therapy





Semaglutide in NASH

Semaglutide GLP-1

Clinical programme - 3 trials

- Primary endpoints include:
 - NASH resolution without worsening of fibrosis
 - Mean change in liver stiffness measured by MRE
- ~450 patients enrolled
- · Phase 2 results expected in H1 2020

Novo Nordisk and Gilead clinical collaboration



Cilofexor Non-steroidal FXR agonist

Clinical programme

- Gilead's two oral small molecule assets in loose combination with semaglutide
- · Phase 2 results expected in 2020





Cardiovascular disease is associated with increased mortality



~18 million people die each year from cardiovascular disease, an estimated 31% of all deaths globally



- CVD is the number one cause of death globally
- Of these CVD deaths, 85% are due to heart attacks and strokes



ATHEROSCLEROSIS

70% of diabetes patients die from atherosclerotic CVD



HEART FAILURE

40% of patients who are hospitalised for heart failure have diabetes





Novo Nordisk is addressing the significant unmet need in CVD via internal and external innovation

Semaglutide paves the way for entering CVD

SUSTAIN 6

Semaglutide 26% cardiovascular risk reduction

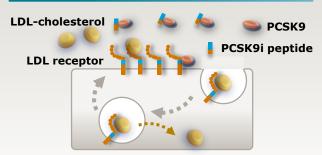
PIONEER 6

Oral semaglutide 21% cardiovascular risk reduction¹

SOUL

Oral semaglutide 9,642 people with type 2 diabetes

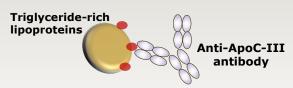
Unique PCSK9i mimetic peptide approach



Increasing LDL receptor levels and efficiently decreasing LDL-cholesterol

Phase 1 results expected H1 2020 Includes lipid lowering measurements

Novo Nordisk and Staten exclusive option agreement



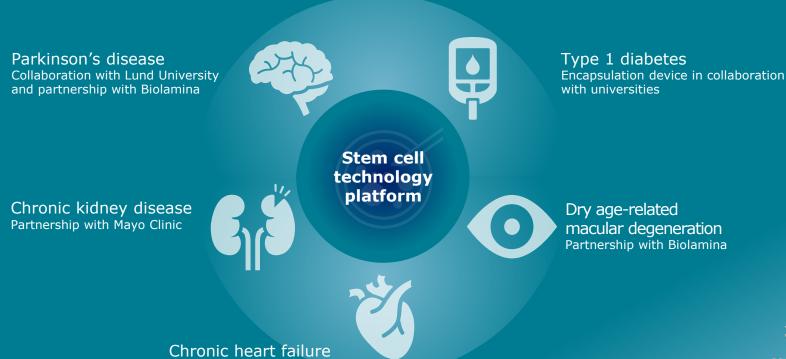
Novel anti-ApoC-III antibody for dyslipidaemia management

Phase 1 initiation expected H1 2020





The stem cell platform is expected to solve unmet needs for people with serious chronic diseases

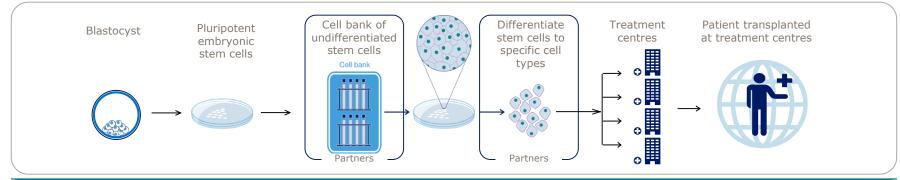


Partnership with Biolamina





20+ years of stem cell research experience facilitates entry into regenerative medicine



Realised with Novo Nordisk's comprehensive stem cell capabilities



GMP-grade production capability in US facility utilising Novo Nordisk's core CMC capabilities



IP positions on differentiation protocols



Academic collaborations with stem cell technology experts

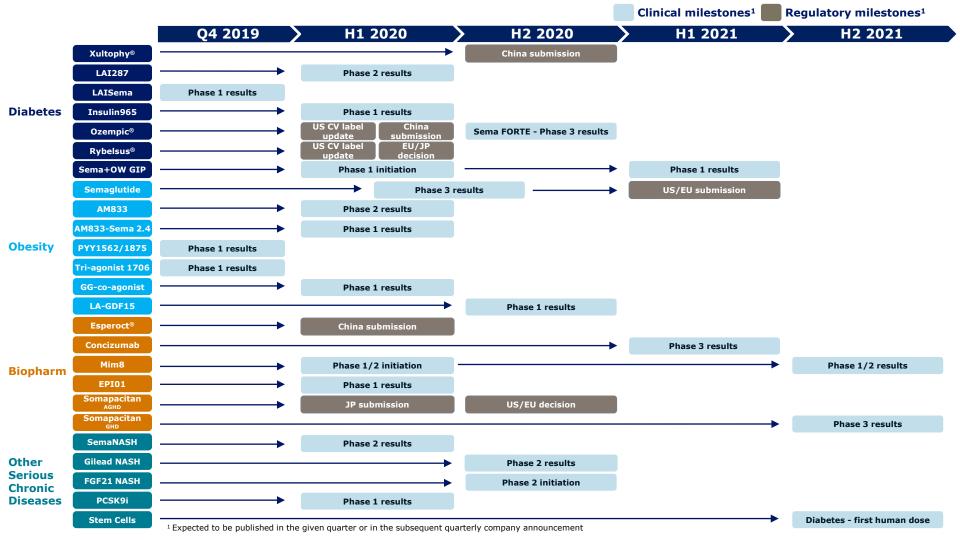


Multiple programs and growing pipeline



Ethical stem cell practices





Closing Remarks



Further raise the innovation bar for diabetes treatment

Develop a leading portfolio of superior treatment solutions for obesity

Strengthen and progress the Biopharm pipeline

Establish presence in other serious chronic disease focusing on NASH, CVD and CKD





Sources, Notes and Abbreviations – Emerging Therapies

- **Slide 3:** ¹Probabilities of success to market were calculated using substances entering phase between 2008 and 2014 and year of assessment 2017, source: CMR International, 2017; NASH: Non-alcoholic steatohepatitis; CVD: Cardiovascular disease; CKD: Chronic kidney disease
- Slide 6: siRNA: silencing RNA; RNA: Ribonucleac acid
- · Slide 7: NASH prevalence numbers are based on internal literature review
- Slide 8: ACC: Acetyl-CoA carboxylase; FXR: Farnesoid X receptor; GLP-1: Glucagon-like peptide-1
- Slide 9: Source: WHO, 2016; World heart foundation.
- Slide 10: ¹Not statistically significant; LDL: Low density lipoprotein, PCSK9i: Proprotein convertase subtilisin/kexin type 9 inhibitor
- Slide 12: GMP: Good manufacturing practice; IP: Intellectual property
- **Slide 13:**¹ Expected to be published in the given quarter or in the subsequent quarterly company announcement; HBwI: Haemophilia B with inhbitors; GHD: Growth hormone deficiency; AGHD: Adult growth hormone deficiency; CV: Cardiovascular; PoC: Proof of Concept; NASH: Non-alcoholic steatohepatitis





Pipeline supports significant growth opportunities across all four strategic focus areas

PHASE 1 PHASE 2 PHASE 3 **SUBMITTED APPROVED** NN1535 – LAIsema NN1436 - LAI287 Semaglutide obesity Tresiba® NN9828 - Anti-IL-21 and lira Somapacitan - OW GHD² NN1965 - FSI965 Xultophy® NN9747 - PYY 1562 analogue NN9838 - Amylin AM833 NN7417 - Concizumab Levemir® NN9775 - PYY 1875 analogue Ryzodeg® NN9423 – Tri-agonist 1706 NN9931 - Semaglutide NASH NovoMix® NN9277 – GG-co-agonist Fiasp® NN9215 - LA-GDF15 NovoRapid® NN9838 - AM833 and Sema Victoza® NN7533 - Eclipse Ozempic® NN9500 - FGF-21 NASH Rybelsus^{®3} NN6434 - PCSK9i Saxenda® NN6177 - GG-co-agonist4 NovoSeven® NovoEight® NovoThirteen® Refixia® Esperoct® (N8-GP) Diabetes Haemophilia Growth disorders Other serious chronic diseases Obesity

¹ Study conducted in adult growth hormone disorder; ² Study conducted in growth hormone disorders; ³Approved in the USA; submitted in the EU, Japan, and Canada; ⁴ Study conducted in NASH LAIsema: Long-acting insulin combined with semaglutide; FSI965: A once daily insulin; PYY: Peptide YY; QW: Once-weekly; GG: Glucagon GLP-1; GDF15: Growth differentiation factor 15; QD: Once-daily; Sema: Semaglutide; POC: Proof of Concept; FGF-21: Fibroblast growth factor 21; LAI: Long-acting insulin; AGHD: Adult growth hormone disease; GHD: Growth hormone disorder; lira: Liraglutide