

novo nordisk – a focused healthcare company

Investor presentation First three months of 2018



Shirley Adelia Stewart has type 2 diabetes New Orleans, Louisiana, US

Agenda

Highlights and key events

Sales update

R&D update

Financials and outlook



Slide 2



Forward-looking statements

Novo Nordisk's reports filed with or furnished to the US Securities and Exchange Commission (SEC), including this presentation as well as the company's statutory Annual Report 2017 and Form 20-F, which are both filed with the SEC in February 2018 in continuation of the publication of the Annual Report 2017, and written information released, or oral statements made, to the public in the future by or on behalf of Novo Nordisk, may contain forward-looking statements. Words such as 'believe', 'expect', 'may', 'will', 'plan', 'strategy', 'prospect', 'foresee', 'estimate', 'project', 'anticipate', 'can', 'intend', 'target' and other words and terms of similar meaning in connection with any discussion of future operating or financial performance identify forward-looking statements. Examples of such forward-looking statements include, but are not limited to:

- 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 our results or the accuracy of forward-looking statements in this presentation, reference is made to the overview of risk factors in 'The Risks of Doing Business' on pp 40-43 of the Annual Report 2017.

Unless required by law, Novo Nordisk is under no duty and undertakes no obligation to update or revise any forward-looking statement after the distribution of this presentation, whether as a result of new information, future events or otherwise.

Important drug information

- Victoza[®] (liraglutide 1.2 mg & 1.8 mg) is approved for the management of type 2 diabetes only
- Saxenda® (liraglutide 3 mg) is approved in the US and EU for the treatment of obesity only



Highlights – First three months of 2018

Sales development

- Sales decreased by 5% in Danish kroner and increased by 5% in local currencies to DKK 26.9 billion
 - International Operations sales were flat in Danish kroner and grew by 8% in local currencies
 - Region Latin America sales increased by 44% in Danish kroner and increased by 73% in local currencies
 - Region AAMEO sales declined by 2% in Danish kroner and grew by 12% in local currencies
 - Region China declined by 1% in Danish kroner and grew by 6% in local currencies
 - North America Operations sales decreased by 11% in Danish kroner and increased by 3% local currencies
 - Victoza[®] and Tresiba[®] accounted for the largest share of growth and grew by 18% and 33% in local currencies, respectively

Research and Development

- Ozempic[®] granted marketing authorisation by the European Commission and approved in Japan
- Successful completion of the first phase 3a trial, PIONEER 1, with oral semaglutide
- Tresiba[®] label in the USA updated to include cardiovascular safety data and 40% reduction of severe hypoglycaemic events compared to insulin glargine U100

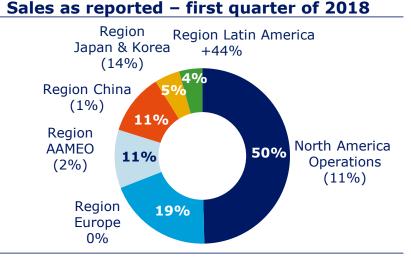
Financials

- Operating profit decreased by 8% in Danish kroner and increased by 6% in local currencies to DKK 12.4 billion
- Net profit increased by 6% to DKK 10.8 billion
- Diluted earnings per share increased by 8% to 4.40 DKK per share
- 2018 financial outlook:
 - Sales growth is now expected to be 3-5% measured in local currencies (now around 6% lower reported)
 - Operating profit growth is now expected to be 2-5% measured in local currencies (now around 9% lower reported)





Sales growth driven by both International Operations and North America Operations



Sales of DKK 26.9 billion (5%)

AAMEO: Africa, Asia, Middle East & Oceania

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Growth break down – first quarter of 2018

Local currencies	Growth	Share of growth
North America Operations	3%	30%
Hereof USA	3%	30%
International Operations	8%	70%
Region Europe	1%	2%
Region AAMEO	12%	23%
Region China	6%	12%
Region Japan & Korea	(6%)	(6%)
Region Latin America	73%	39%
Total sales	5%	100%



Sales growth in local currencies of 5% mainly driven by Victoza[®] and Saxenda[®]

Sales as reported – first guarter of 2018 Growth Other hormone biopharmaceuticals (10%)(28%) % Haemophilia (3%)9% 2% Obesity Diabetes care +43%(6%) 81%

Sales of DKK 26.9 billion (5%)

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Growth break down – first quarter of 2018

Local currencies	Growth	Share of growth
Long-acting insulin ¹	(3%)	(10%)
Premix insulin ²	1%	2%
Fast-acting insulin ³	0%	0%
Human insulin	3%	4%
GLP-1 ⁴	19%	73%
Other diabetes care ⁵	5%	4%
Total diabetes care	5%	73%
Obesity (Saxenda [®])	64%	23%
Diabetes care and obesity total	6%	96%
Haemophilia ⁶	7%	12%
Growth disorders	0%	0%
Other biopharmaceuticals ⁷	(23%)	(8%)
Biopharmaceuticals	1%	4%
Total	5%	100%

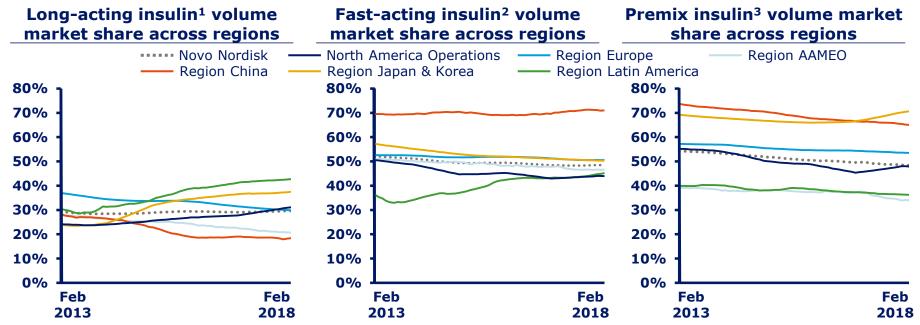
 1 Comprises Tresiba $^{\ensuremath{\$}}$, Xultophy $^{\ensuremath{\$}}$ and Levemir $^{\ensuremath{\$}}$; 2 Comprises Ryzodeg $^{\ensuremath{\$}}$ and NovoMix $^{\ensuremath{\$}}$

³ Comprises Fiasp[®] and NovoRapid[®]; ⁴ Comprises Ozempic[®] and Victoza[®]

⁵ Primarily NovoNorm[®] and needles; ⁶ Comprises NovoSeven[®], NovoEight[®],

NovoThirteen® and Refixia®; 7 Primarily Vagifem® and Activelle®

Novo Nordisk aims for leadership in long-acting insulin and sustained leadership for fast-acting and premix insulin



¹ Long-acting insulin comprises: Tresiba[®], Levemir[®], Xultophy[®] and Insulatard[®] (basal human insulin). Please note that not all products are launched in all markets

² Short-acting insulin includes: Fiasp[®], NovoLog[®] and Mixtard[®] 30 (premix human insulin). Please note that not all products are launched in all markets

³ Premix insulin includes: Ryzodeg[®], NovoMix[®] and Actrapid[®] (bolus human insulin). Please note that not all products are launched in all markets





Novo Nordisk holds ~35% volume market share of the basal market in the USA

Weekly TRx volu	me market shar	es ¹ in the USA
glargine U100 Basal volume TRx MS	 NN Total Basal Tresiba[®] biosimilar glarg 	- glargine U300
70% 60% 50% 40% 30%		42.2% 34.8%
20% 10% 0% Mar 2016		22.8% 11.8% 8.5% 8.4% Mar 2018

Note: The graph does not show NPH, which accounts for the residual market share

Source: IQVIA weekly Xponent Plantrak, 23 March 2018

 1Excludes Medicaid that represents ${\sim}12\%$ of retail basal market volume and basal insulin and GLP-1 combination products such as Xultophy®

TRx volume: Insulin volume in mega units (MU) associated with total number of prescriptions; MS: Market share

Tresiba[®] launch in the USA

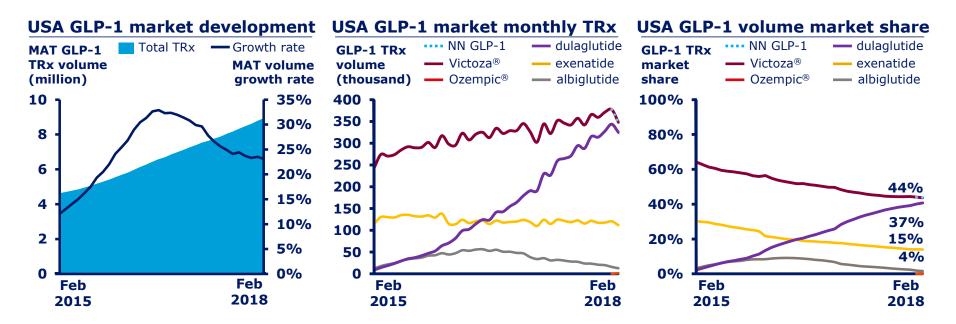
- Tresiba[®] TRx volume market share is now 11.8%
- Main market share driver in Q1 2018 has been the formulary change at CVS part D^1
- Tresiba[®] formulary access is now estimated to be around 80%² for Commercial and Medicare Part D combined, following formulary access on United Health Care Part D
- Tresiba[®] label in the USA updated to include cardiovascular safety data and 40% reduction of severe hypoglycaemic events compared to insulin glargine U100. The updated Tresiba[®] label was launched mid-April 2018 in the USA

² Projected access calculated from VANTAGE FingerTip Formulary bridge February 2018, week ending 2 March 2018.



Source: IQVIA weekly Xponent Plantrak, 23 March, 2018 ¹ CVS formulary Silverscript

Victoza[®] sales growth of 20% in the USA driven by GLP-1 market volume growth of ~23%

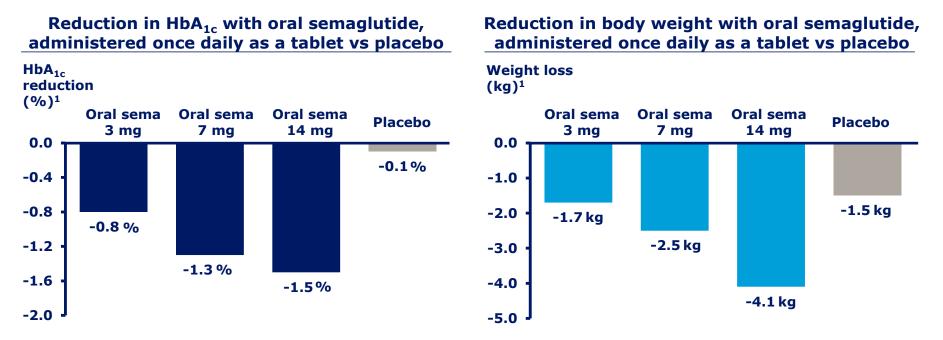


Source: IQVIA NPA monthly, Feb 2018

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First phase 3a trial with oral semaglutide, PIONEER 1, in adults with type 2 diabetes completed



¹ Results illustrated by using the secondary statistical method called hypothetical estimand: Treatment effect, if all participants followed the treatment without rescue medication (analysed by using Mixed Models for Repeated Measurements (MMRM)). The statistical method is consistent with e.g. the statistical method used for the SUSTAIN programme for subcutaneous semaglutide. Sema: Semaglutide



All 10 PIONEER trials for oral semaglutide expected to read-out during 2018

2016	\rightarrow	2017	Q1 2018	1 Q2 2018	Q3 2018 ¹	Q4 2018 ¹
	PIONEER 1: monot 26 weeks, n=704	therapy ²				
	PIONEER 2: vs empagliflo 52 weeks, n=816	ozin²				
PIONEER 3: vs sitaglipti 78 weeks, n=1,860						
	PIONEER 4: vs liraglutide ² 52 weeks, n=690					
	26 weeks, n=324	rate renal impairment ²				
	Eve	ONEER 6: cardiovascular ou ent driven (<u>></u> 122 MACE), n=				
	PIONEER 7: flexible 52 weeks, n=500				52 weeks e	xtension trial
	26+20	IEER 8: insulin add-on² 26 weeks, n=720				
	52 week	R 9: JAPAN monotherapy ² ks, n=230				
		ER 10: JAPAN OAD combina ks, n=336	tion ⁴			

¹ Expected to be published in the given quarter or in the subsequent quarterly company announcement. Estimated timing from first patient first visit to completion of trial

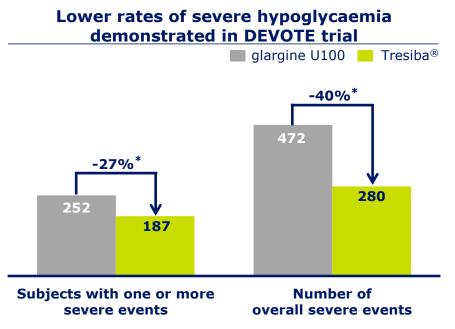
² Primary endpoint after 26 weeks of treatment by using the statistical method: Treatment policy estimand approach

³ Primary endpoint after ≥122 major adverse cardiovascular events (MACE), defined by non-fatal stroke, non-fatal myocardial infarction or CV death

⁴ Primary endpoint after 52 weeks of treatment by using the statistical method: Treatment policy estimand approach

Note: n = approximate number of randomised people; OAD: oral anti-diabetic

Tresiba[®] label in the USA updated based on DEVOTE trial data



* Statistically significant Source: Marso et al. New England Journal of Medicine 2017;377:723–32

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FDA approved a label update for Tresiba[®] for people with type 2 diabetes

- Food and Drug Administration (FDA) approved updates to the US prescribing information for Tresiba[®] to include data from the DEVOTE trial including:
 - Cardiovascular safety based on Tresiba[®] demonstrated non-inferiority compared to insulin glargine U100 with regards to major adverse cardiovascular events¹ (MACE) with a hazard ratio of 0.91
 - Statistically significant 40% reduction of severe hypoglycaemic events compared to insulin glargine U100
- The supplemental applications to include the two SWITCH trials have been withdrawn following interactions with FDA

¹ MACE defined as first occurrence of cardiovascular death, non-fatal myocardial infarction or non-fatal stroke



Key development milestones

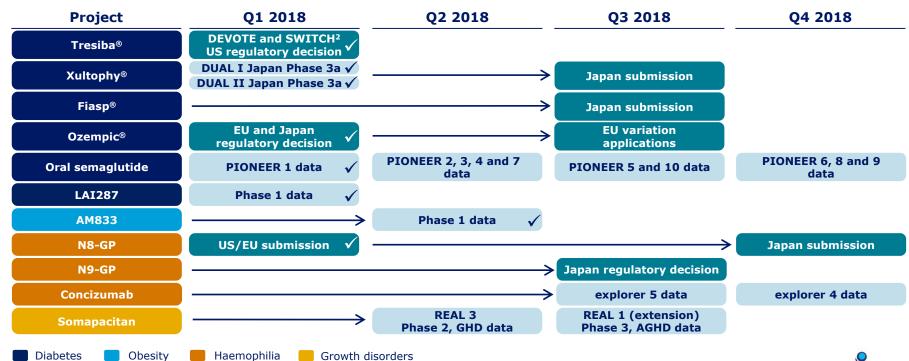
	Ozempic [®] granted marketing authorisation by European Commission and approved in Japan
	• Variation applications for Ozempic [®] submitted to the EMA for the devices and inclusion of SUSTAIN 7 data
	 New drug application for Ryzodeg[®] submitted to the China FDA
Diabetes	 Xultophy[®] label to include LEADER and DEVOTE data submitted to the FDA and positive opinion adopted by CHMP in the EU
Diabetes	DUAL I Japan phase 3a trial with Xultophy [®] completed
	LAI287 phase 1 trials completed and phase 2 initiation expected before end of 2018
	Development of PI406 to be discontinued following phase 1 results
	HypoPen 1513 initiated in phase 1
Obesity	AM833 phase 1 results completed and phase 2 initiation expected early 2019
	N8-GP submitted for regulatory approval in the USA and the EU for treatment of haemophilia A
Biopharm	Phase 1/2 multiple dose trial with subcutaneous N8-GP initiated following completion of single dose trial
Diophann	Worldwide license to EpiDestiny's sickle cell disease programme (EPI01) obtained
	 Norditropin[®] label in the USA updated with two additional indications





R&D milestones in 2018

Results available¹ Regulatory milestone



¹ Expected to be published in the given quarter or in the subsequent quarterly company announcement ² Supplemental applications to include the two SWITCH trials have been withdrawn based on interactions with FDA GHD: Growth hormone deficiency; AGHD: Adult growth hormone deficiency Note: G530L has been removed from the overview as the project is still being evaluated in phase 1

Note: Tresiba® vs insulin glargine U300 trial has been postponed and is no longer expected to read-out in Q4 2018

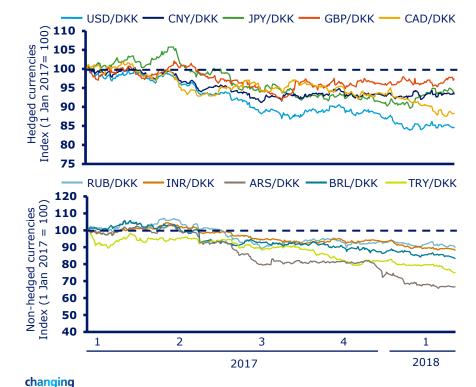


Financial results – First three months of 2018

DKK million	Q1 2018	Q1 2017	Change (reported DKK)	Change (local currency)
Sales	26,930	28,452	(5%)	5%
Gross profit	22,733	24,201	(6%)	
Gross margin	84.4%	85.1%		
Sales and distribution costs	(6,451)	(6,787)	(5%)	5%
Percentage of sales	24.0%	23.9%		
Research and development costs	(3,321)	(3,289)	1%	5%
Percentage of sales	12.3%	11.6%		
Administration costs	(864)	(913)	(5%)	0%
Percentage of sales	3.2%	3.2%		
Other operating income, net	351	278	26%	
Operating profit	12,448	13,490	(8%)	6%
Operating margin	46.2%	47.4%		
Financial items (net)	1,161	(486)		
Profit before income tax	13,609	13,004	5%	
Income taxes	(2,858)	(2,848)	0%	
Effective tax rate	21.0%	21.9%		
Net profit	10,751	10,156	6%	
Diluted earnings per share (DKK)	4.40	4.06	8%	

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Unfavourable currency impact in Q1 2018 driven by development in both hedged and unhedged currencies



Hedged Currencies	2017 average	2018 average ²	Spot rate ²	Impact of a 5% move ³	
USD ¹	660	606	612	1,900	12
CNY ¹	98	96	97	330	64
JPY ¹	5.9	5.6	5.5	175	12
GBP ¹	849	845	850	95	12
CAD ¹	508	479	485	80	10

Non-hedged Currencies	2017 average	2018 average ²	Spot rate ²
ARS ¹	0.4	0.3	0.3
TRY ¹	181	157	150
INR ¹	10.1	9.4	9.1
RUB ¹	11.3	10.5	10.6
BRL ¹	207	185	175

¹ DKK per 100; ² As of 25 April 2018; ³ Impact on operating profit in the next 12 months of a 5% immediate currency move. DKK million per annum; ⁴ Chinese Yuan traded offshore (CNH)

Note: Operating profit impact of one of the non-hedged currencies appreciating 5% is in the range of DKK -15 to +50 million



Financial outlook for 2018

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	Expectations 2 May 2018	Previous expectations 1 Feb 2018
Sales growth - local currencies	3% to 5%	2% to 5%
Sales growth - reported	Around 6 percentage point lower	Around 7 percentage points lower
Operating profit growth - local currencies	2% to 5%	1% to 5%
Operating profit growth - reported	Around 9 percentage point lower	Around 10 percentage points lower
Financial items (net)	Gain of around DKK 1.9 billion	Gain of around DKK 2.5 billion
Effective tax rate	20% to 22%	20% to 22%
Capital expenditure	Around DKK 9.5 billion	Around DKK 9.5 billion
Depreciation, amortisation and impairment losses	Around DKK 3 billion	Around DKK 3 billion
Free cash flow	Around DKK 27 to 32 billion	Around DKK 27 to 32 billion

The financial outlook is based on an assumption of a continuation of the current business environment and given the current scope of business activities and has been prepared assuming that currency exchange rates remain at the level as of 25 April 2018



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Closing remarks

Solid leadership positions and continued market opportunities

- 27% Novo Nordisk value market share in diabetes care and solid leadership position
- ~5% insulin market volume growth
- 45% Novo Nordisk insulin volume market share with leadership position across all regions
- >21% GLP-1 volume market growth

Source: IQVIA MAT Feb 2018 volume and value (DKK) figures

- 54% Novo Nordisk GLP-1 volume market share with global leadership position
- 38% Saxenda[®] value market share with a global leadership in the anti obesity market

Promising pipeline and product launches

- The only company with a full portfolio of novel insulin and GLP-1 products
- Semaglutide portfolio offers expansion opportunity with both once-weekly Ozempic[®] and oral administration
- Xultophy[®] supports promising outlook for insulin and GLP-1 combination therapy
- Saxenda[®] and multiple clinical stage development projects hold potential within obesity
- Broad pipeline within haemophilia





Investor contact information

Share information

Novo Nordisk's B shares are listed on the stock exchange in Copenhagen under the symbol 'NOVO B'. Its ADRs are listed on the New York Stock Exchange under the symbol 'NVO'. For further company information, visit Novo Nordisk on the internet at: novonordisk.com

Upcoming events

- 24 Jun 2018 American Diabetes Association investor presentation
- 08 Aug 2018 Financial statement for the first six months of 2018
- 01 Nov 2018 Financial statement for the first nine months of 2018
- 01 Feb 2019 Financial statement for 2018

Investor Relations contacts

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Novo Nordisk at a glance

Global leader in diabetes care

- A focused pharmaceutical company with leading positions in diabetes, haemophilia and growth hormone
- Significant growth opportunities driven by the diabetes pandemic, fuelled by global presence and strong research and development pipeline
- High barriers to entry in biologics
- Operating profit growth targeting 5% yearly on average (measured in local currencies)
- Earnings conversion to cash targeting 90%
- Cash generated returned to shareholders

Global insulin market leadership

Global insulin market share: 46%





Novo Nordisk strategic foundation

	CORE CAPABIL	LITES			
Strengthen leadership in DIABETES CARE	Engineering, formulating, developing and delivering protein-based treatments	Deep disease understanding	Efficient large-scale production of proteins	Global commercial reach and leader in chronic disease care	Driving chang to defeat
Strengthen leadership in OBESITY CARE					diabetes and other serious
Pursue leadership in HAEMOPHILIA					chronic conditions
Strengthen leadership in GROWTH DISORDERS					
Expand into other SERIOUS CHRONIC DISEASES					

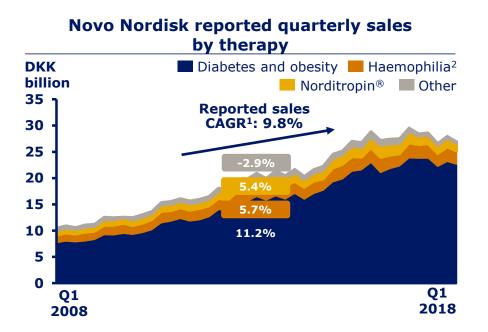
Novo Nordisk Way



Slide 22

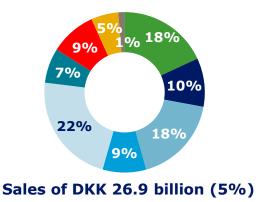


Sales growth driven by the diabetes pandemic



Reported sales split by product segments for first three months of 2018

Long-acting insulin	Premix insulin	Fast-acting insulin
Human insulin	GLP-1	Other diabetes and obesity
Growth disorders	Haemophilia	Other biopharmaceuticals



novo nordisk[®]

¹ CAGR for 10-year period

 2 Haemophilia comprises NovoSeven $^{\circledast}$, NovoThirteen $^{\circledast}$, NovoEight $^{\circledast}$ and Refixia $^{\circledast}$



Note: Annual sales figures for Haemophilia A, B and

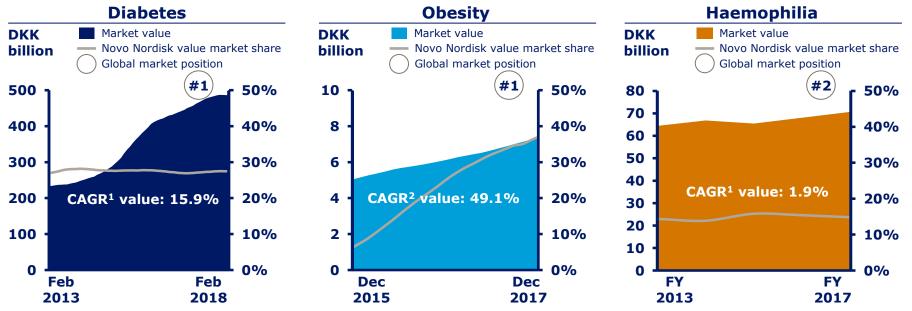
derived products

Source: Company reports

Bypassing agents segment. Recombinant and plasma

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Novo Nordisk has leading positions in diabetes, haemophilia and obesity



 $^1\,\text{CAGR}$ for 5-year period Source: IQVIA MAT Feb, 2018 value figures

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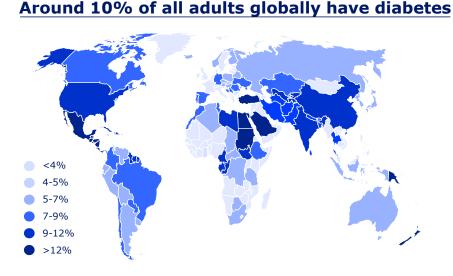
diabetes

Note: Value data is based on Australia, Belgium, Brazil, Canada, Chile, Denmark, Germany, Italy, Mexico, Russia, Spain, UAE, USA ² CAGR for 2-year period Source: IQVIA MAT Dec, 2017 value figures

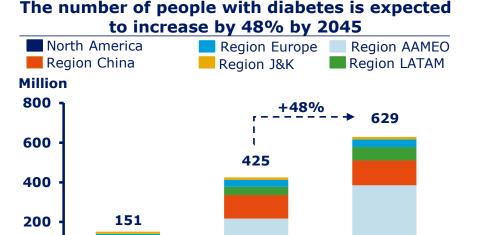
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Global diabetes prevalence is increasing and 629 million people are expected to have diabetes by 2045



Source: Adapted from International Diabetes Federation: Diabetes Atlas 8th Edition 2017



2017

J&K: Japan & Korea; AAMEO: Africa, Asia, Middle-East and Oceania; LATAM: Latin America Source: International Diabetes Federation: Diabetes Atlas 1th Edition 2000 and Diabetes Atlas 8th Edition 2017



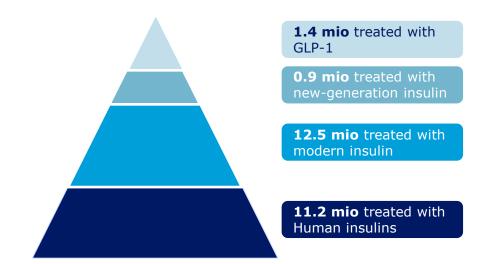
2045

8 Slide 26

Focus on driving global insulin growth by increasing the number of people benefitting from Novo Nordisk products

Around 26 million people are currently treated with Novo Nordisk insulin and GLP-1 products

Only 6% of all people with diabetes are treated with Novo Nordisk products



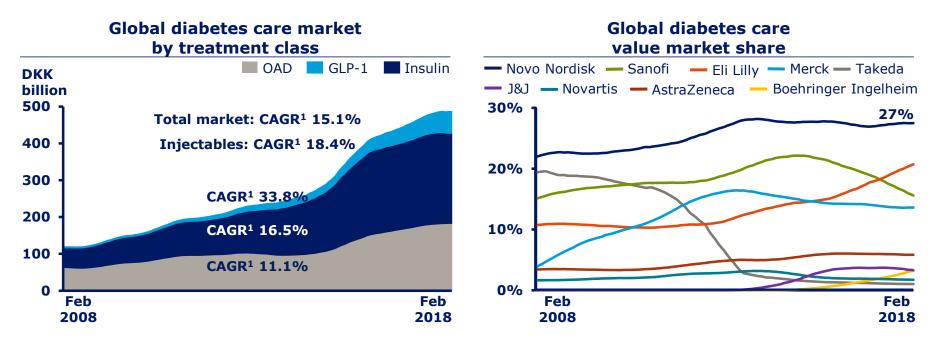
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26 of 425 million people with diabetes are treated with NN products

NN: Novo Nordisk Source: International Diabetes Federation: Diabetes Atlas 8th Edition 2017



Novo Nordisk has a strong leadership position within the growing diabetes care market

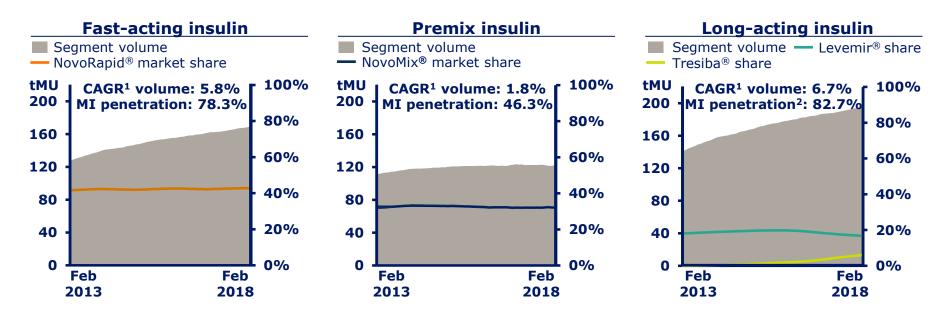


¹ CAGR for 10-year period OAD: Oral Anti-diabetic Source: IQVIA MAT Feb, 2018 value figures Source: IQVIA MAT Feb, 2018 value figures



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Continued single digit volume growth within the insulin segments globally



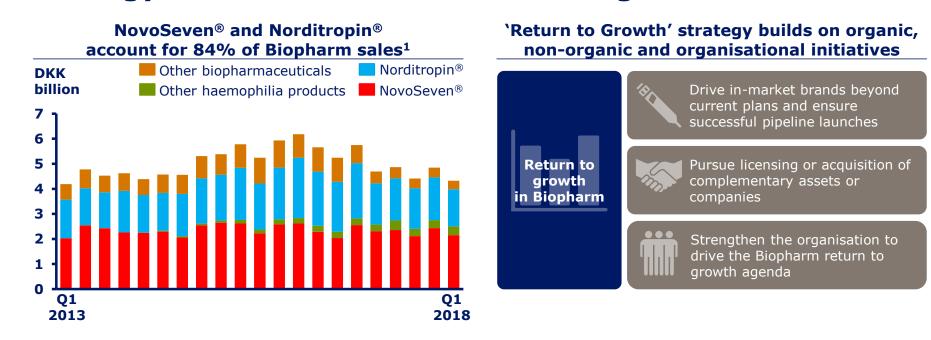
¹ CAGR for 5-year period. ² Includes new-generation insulin. tMU: Thousand mega units

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Note: Modern insulin (MI) penetration is of total segment, ie including animal and human insulin; Data is sensitive to changes in IQVIA data collection and reporting methodology Source: IQVIA MAT Feb, 2018 volume figures



Biopharm constitutes 16% of Novo Nordisk sales and a strategy has been defined to return to growth



 $^{\rm 1}$ Reported sales for the first three months of 2018

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Slide 30

Novo Nordisk R&D strategy and priorities

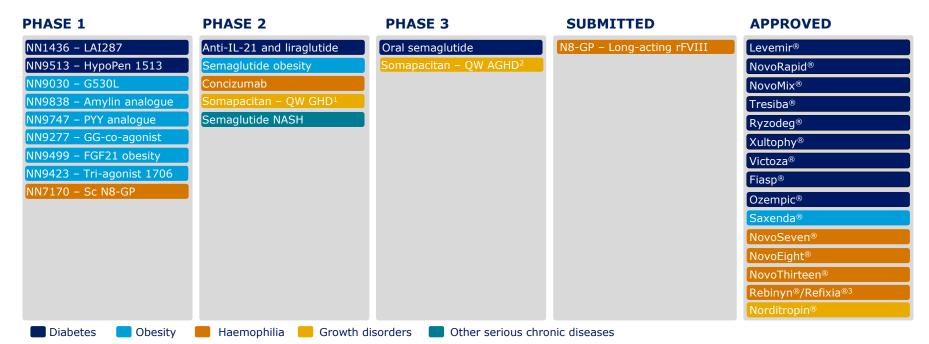
STRATEGIC PRIORITIES	R&D PRIORITIES		
Strengthen leadership in DIABETES CARE	 Develop disruptive insulin and GLP-1 based products with distinct clinical and/or delivery advantages Develop novel mechanisms that reverse the course of diabetes, act as insulin sensitisers and improve hard clinical endpoints 		
Strengthen leadership in OBESITY CARE	• Develop new biologics combined with GLP-1 to achieve >15% weight loss Innova		
Pursue leadership in HAEMOPHILIA	Pursue subcutaneous delivery of long-acting coagulation factors and bypassing agents	outcomes and drive growth	
Strengthen leadership in GROWTH DISORDERS	Bring once-weekly growth hormone to market and expand indications		
Expand into other SERIOUS CHRONIC DISEASES	• Enter NASH, CVD and CKD by leveraging GLP-1 and other internal assets as well as licensing external opportunities		

CKD: Chronic kidney disease; CVD: Cardiovascular disease; NASH: Non-alcoholic steatohepatitis

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Significant growth opportunities fuelled by strong pipeline across all four strategic focus areas

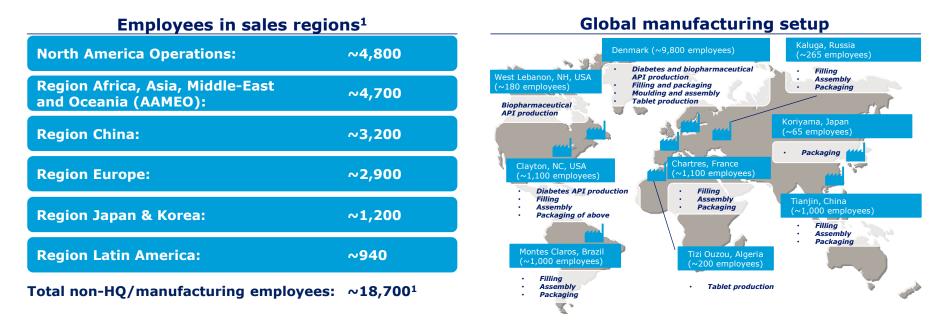


¹ Study conducted in growth hormone disorder ² Study conducted in adult growth hormone disorder ³ Rebinyn[®] is the brand name in the US and Refixia[®] in the EU QW: Once-weekly; GG: Glucagon GLP-1; Sc: Subcutaneous; QD: Once daily; GH: Growth hormone





Growth opportunities supported by strong global presence in both sales and manufacturing



¹ Employees represent full-time equivalents in Novo Nordisk's sales regions (excludes all other employees in headquarter, research sites and manufacturing sites) as of March 2018

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Solid patent protection of innovative drugs

Novo Nordisk's position is protected by patents and value chain setup

	EU patent protection ¹	US patent protection ¹
OZEMPIC semaglutide injection	2031	2032
Fiasp	2030	2030
fast-acting insulin aspart Xuitophy [®]	2028 ²	2029 ²
insulin degludec-litaglutide DNA origin injection TRESIBA	2028	2029
insulindegludec (IDNA origin) injection	2028	2029
VICTOZA	2023 ³	2023 ³
	2019	2019
Novo Mix*	Expired ⁴	Expired ⁵
NovoRapid [*]	Expired ⁶	Expired ⁷
norditropin [®]	Expired ⁸	Expired ⁸

¹List does not include all marketed products. ² Protected by patents on the individual compounds insulin degludec and liraglutide as listed. ³Assuming 6 months paediatric extension ⁴Expired in 2015. ⁵Expired in 2014. ⁶Expired in 2014. ⁸Expired in 2017

Note: Saxenda patent identical to the Victoza® patent.



Barriers to entry for biosimilar players

Research & Development

- Need to show comparability in PK/PD trials
- Strict regulatory requirements in EU and the US
- Requirement for both drug and device offering

Manufacturing

- Economies of scale for incumbents
- Up-front CAPEX requirements with slow return on investment

Commercialisation

- Large and fragmented target audience
- Cost pressure from payers
- On-going conversion to next generation drugs and slow market dynamics

PK: Pharmacokinetic, PD: Pharmacodynamic; CAPEX: Capital expenditure



Insulin







Diabetes – the inability to manage blood sugar levels appropriately

Facts about diabetes

Diabetes is a chronic disease that occurs either when the pancreas does not produce enough insulin or when the body cannot effectively use the insulin produced by the pancreas

Primary classifications:

Type 1 diabetes: Complete insulin deficiency due to destruction of beta-cells in the pancreas

Type 2 diabetes: Characterised by some degree of insulin resistance and insulin deficiency

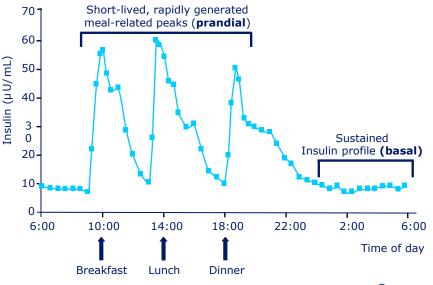
Insulin:

changing

- · Facilitates uptake of blood sugar into cells
- · Inhibits glucose release from the liver

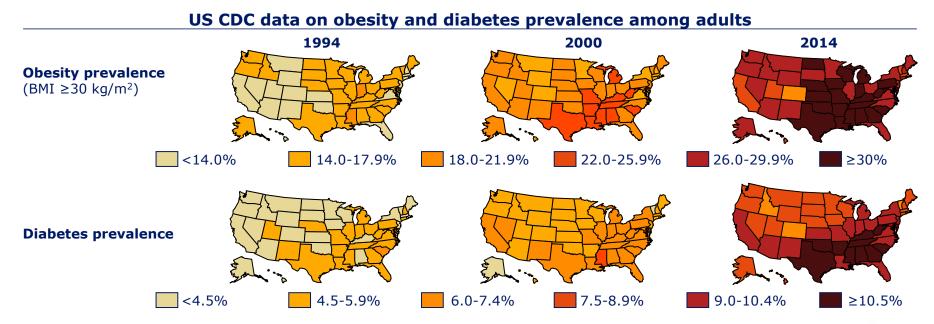


The aim of insulin therapy is to recreate normal blood insulin profile





Diabetes pandemic is fuelled by growing rates of obesity



CDC: Centers for Disease Control and Prevention

changing diabetes®

Source: CDC's Division of Diabetes Translation. National Diabetes Surveillance System available at http://www.cdc.gov/diabetes

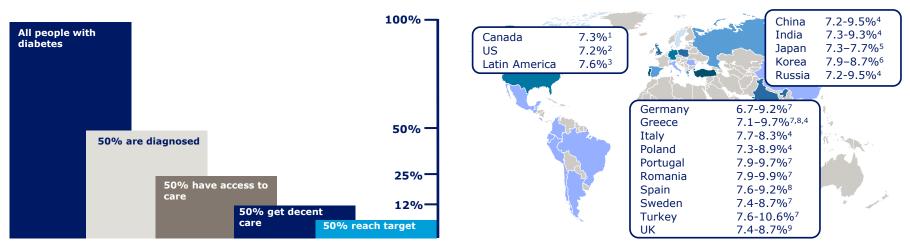


Slide 36

Poor diagnosis rates, lack of access to optimal treatment and poor glycaemic control remain global problems

Diagnosis and optimal treatment remains a challenge – the rule of halves

The worldwide challenge of glycaemic control: Mean HbA_{1C} in type 2 diabetes



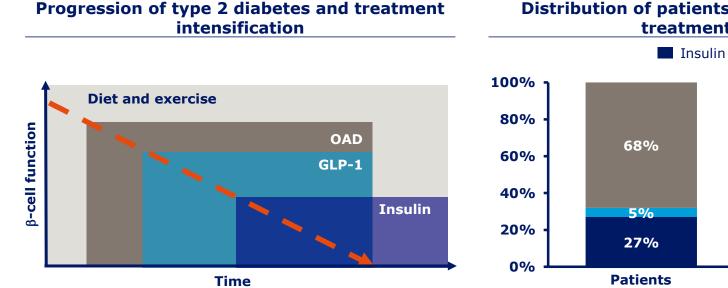
 1 Harris et al. Diabetes Res Clin Pract 2005;70:90–7; 2 Hoerger et.al. Diabetes Care 2008;31:81–6; 3 Lopez Stewart et al. Rev Panam Salud Publica 2007;22:12–20; 4 Valensi et al. Int J Clin Pract 2009;63(3):522-31; 5 Arai et al. J Diabetes Investig. 2012 Aug 20;3(4):396-401; 6 Ko et al. Diab Med 2007;24:55–62; 7 Oguz et al. Curr Med Res Opin 2013;29:911–20; 8 Liebl et al. Diab Ther 2012;3:e1–10; 9 Blak et al. Diab Med 2012;29:e13-20





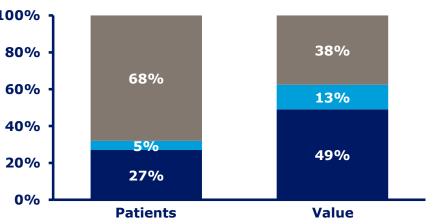
OAD

Insulin is the ultimate care for people with diabetes



Distribution of patients and value across treatment classes

GLP-1



OAD: Oral anti-diabetic

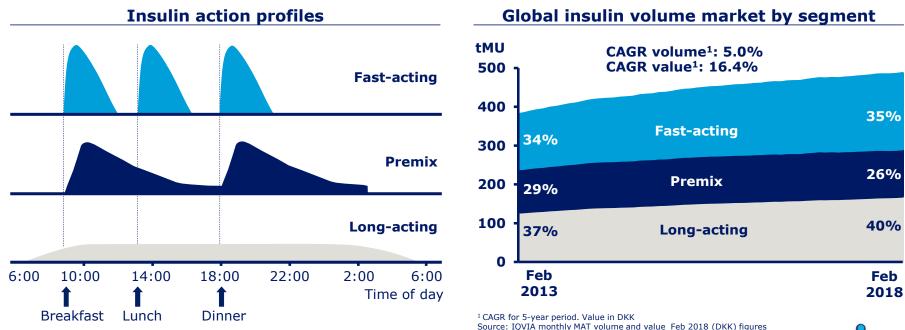
Note: Patient distribution across treatment classes is indicative and based on data for US. UK, Germany and France. Value figures based on IQVIA MAT Feb, 2018 Source: IOVIA PharMetrix claims data, IOVIA disease analyser, IOVIA MIDAS



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The insulin market is comprised of three segments

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Medications used for the treatment of type 2 diabetes

Commonly prescribed product classes for the treatment of type 2 diabetes Weight Dosing HbA_{1C} Hypoglycae-**Contraindication**/ Class **CVD** risk change mia risk undesired effects change (pr. day) Minimal 2 OADs Metformin 1.5 No Neutral Kidney, liver Sulfonylurea 1.5 Yes 1 OAD Essentially none Gain None TZDs 0.5 - 1.4No Gain Varies 1 OAD CHF, liver 1-2 OADs **DPP-IV** inhibitors 0.6 - 0.8 No Neutral TBD None Genital infections, urinary SGLT-2 inhibitors 0.5 - 0.9 No Varies 1 OAD Loss tract infections GLP-1 1.0 - 2.0 No Varies Varies GI side effects, MTC Loss 1.5 - 2.5 TG and HDL Long-acting insulin Yes Gain 1 injection Hypoglycaemia Fast-acting insulin TG and HDL 1.5 - 2.5 Yes Gain 1-4 injections Hypoglycaemia

Note: TG and HDL: Beneficial effect on triglycerides and high-density lipoprotein cholesterol; CHF: Congestive heart failure; GI: Gastro intestinal; MTC: Medullary thyroid cancer; TZD: thiazolidinediones; OAD: Oral anti-diabetic; TBD: to be defined.

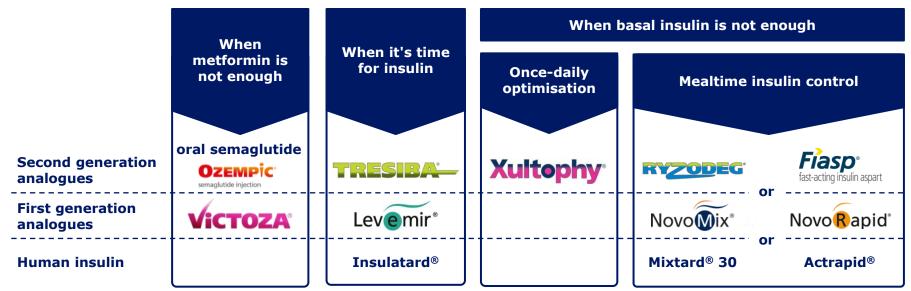
Sources: Adapted from: Nathan DM, et al. Diabetes Care. 2006; 29:1963-1972; Nathan DM, et al. Diabetes Care. 2007;30:753-759; Nathan DM, et al. Diabetes Care. 2008;31:173-175. ADA. Diabetes Care. 2008;31:S12-S54. WelChol PI. 1/2008.





Novo Nordisk current and future product portfolio covers the type 2 diabetes treatment cascade¹

Overview of current and future products in Novo Nordisk's diabetes portfolio



¹ Pending clinical development programmes and regulatory processes for oral semaglutide

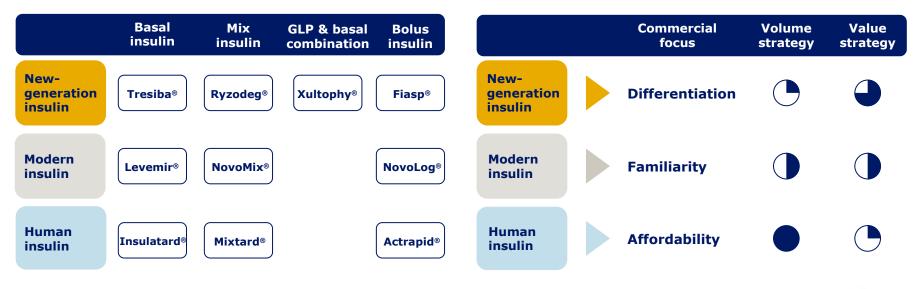
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Novo Nordisk holds a broad insulin portfolio with three generations of products covering the treatment cascade

Novo Nordisk product portfolio includes three generations of insulin products

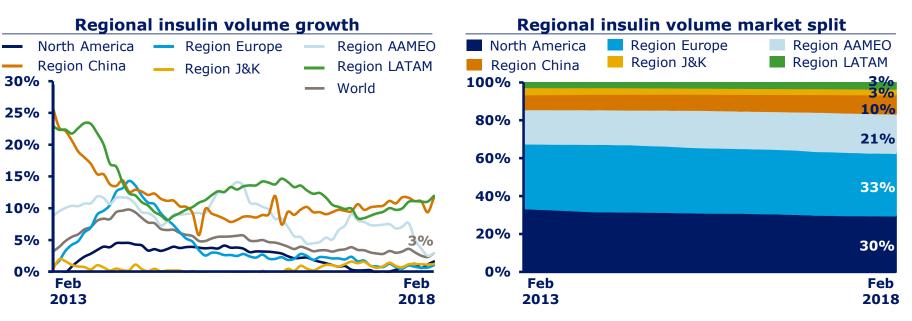
changing diabetes® Commercial focus depends on market maturity and market access situation





Slide 42

Stable global insulin volume growth



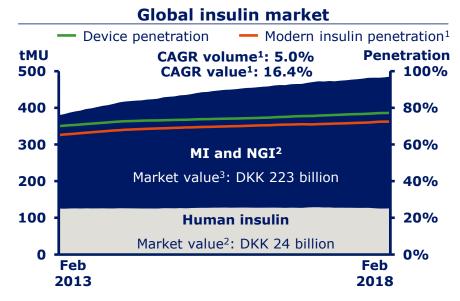
rica Reg: Region; J&K: Japan & Korea; AAMEO: Africa, Asia, Middle-East and Oceania; LATAM: Latin America Note: Data is sensitive to changes in IQVIA data collection and reporting methodology Source: IQVIA monthly MAT Feb, 2018 volume figures



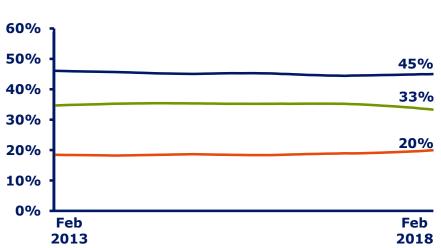
Reg: Region; J&K: Japan & Korea; AAMEO: Africa, Asia, Middle-East and Oceania; LATAM: Latin America Note: Data is sensitive to changes in IQVIA data collection and reporting methodology Source: IQVIA monthly MAT Feb, 2018 volume figures

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Strong underlying insulin market growth and sustained global volume market share



Global modern and new-generation insulin volume market shares - Novo Nordisk - Sanofi - Eli Lilly



Note: Data is sensitive to changes in IQVIA data collection and reporting methodology,

does not add up to 100% as only selected pharmaceutical companies are included

Source: IQVIA monthly MAT Feb, 2018 volume figures

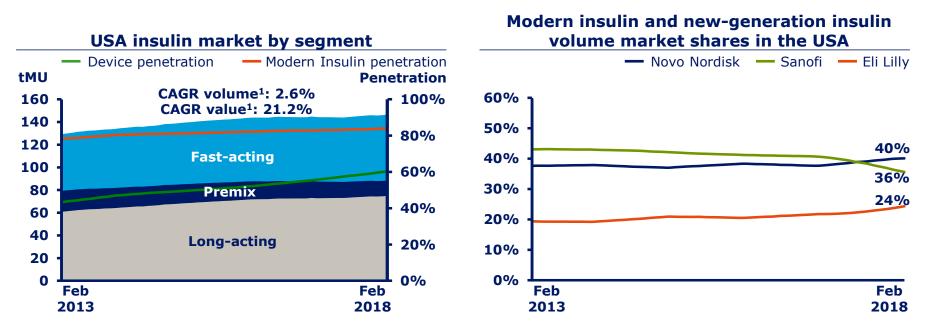
¹ CAGR for 5-year period; ²MI: Modern insulin. NGI: New-generation insulin ³Annual value of total insulin class

Note: Data is sensitive to changes in IQVIA data collection and reporting methodology Source: IQVIA monthly MAT Feb, 2018 volume and value (DKK) figures

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Novo Nordisk is now the market leader in the USA within the modern and new-generation insulin segment



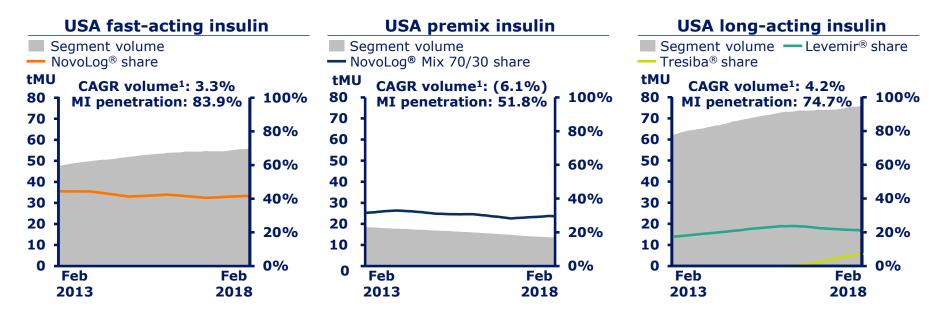
Source: IQVIA monthly MAT Feb, 2018 volume figures



¹ CAGR for 5-year period Source: IOVIA monthly MAT Feb, 2018 volume and value (DKK) figures



Novo Nordisk's modern and new generation insulins maintain market share in the USA insulin market



¹ CAGR for 5-year period; tMU: Thousand mega units

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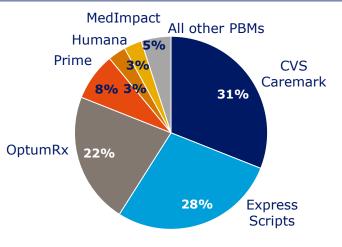
Note: US trend data reflect changes to IQVIA data collection coverage and methodology as of January 2012. Modern insulin (MI) penetration is of total segment, ie including human insulin Source: IQVIA monthly MAT Feb, 2018 volume figures



US health insurance is dominated by few large commercial payers with slow expansion of public insurance coverage

US population by health insurance status expected to remain stable in coming years Managed care² Medicare Medicaid Uninsured Public exchanges 📒 Other ◯ US population (million) 326 333 100% 9% 8% 80% 23% 22% 60% 18% 18% 40% 45% 44% 20% 0% **2017**¹ 2020

In 2018, PBMs covered 288 million lives and the market has consolidated



¹ 2017 data reflect historical data through October 2017

 2 Managed care population was slightly underestimated as only population under age 65 were captured to avoid double counting with those eligible for Medicare.

Source: Census.gov; Congressional Budget Office Health Insurance Coverage 2016-2026; Medicare Enrollment Dashboard; CMS Health Insurance Enrollment Projection 2015-2025; Medicaid and CHIP Enrollment Report Oct. 2017; CMS Insurance Marketplace Factsheet 2017; CDC.gov

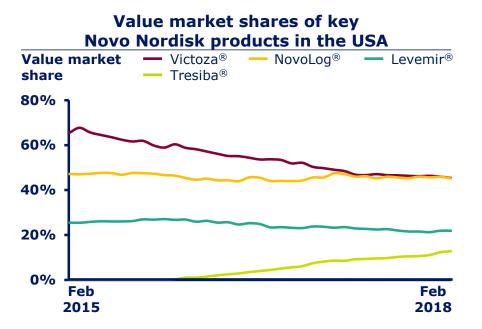
PBM: Pharmacy Benefit Manager

Note: Covers all main channels (Managed Care, Medicare Part D, and Medicaid); market share based on claim adjudication coverage, i.e. not on formulary/rebate decision power Sources: Cleveland Research

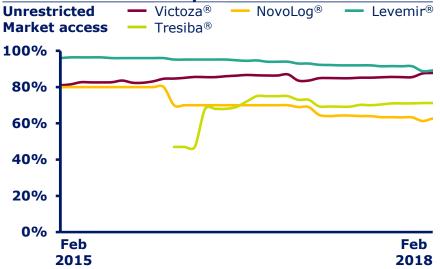


Slide 48

Key Novo Nordisk diabetes care products remain broadly available in the USA



% share of unrestricted market access of key Novo Nordisk products in the USA



Source: IQVIA NSP Feb 2018;

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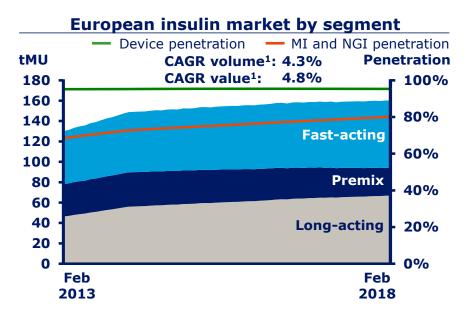
Note: Market shares: NovoLog[®]: share of rapid acting insulin segment; Levemir[®]: share of basal insulin segment; Tresiba[®] share of basal insulin segment; Victoza[®]: share of GLP-1 segment

Source: FingerTip Formulary bridge, Feb 2018 Nomenclature and Xponent PlanTrak,; only considers bridged volume; excludes cash and mail order data;

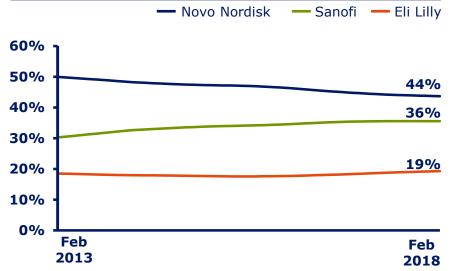
Note: Unrestricted access excludes prior authorisation, step edits and other restrictions Levemir[®] access based on FlexTouch[®] Pen; NovoLog[®] access based on FlexPen^{®;} only considers bridged volume; Tresiba[®] launched in January 2016



Sustained leadership position in the European modern and new-generation insulin market



European modern insulin and new-generation insulin volume market shares



Source: IQVIA monthly MAT Feb, 2018 volume figures, numbers do not add up to 100% due to smaller insulin manufacturers



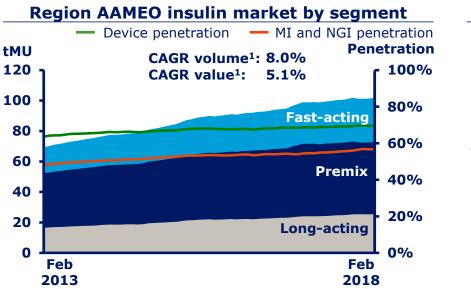
¹ CAGR for 5-year period

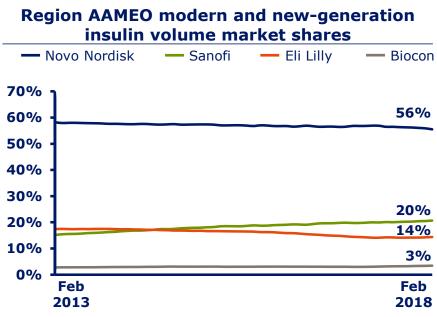
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² MI: Modern insulin; NGI: New-generation insulin

Source: IQVIA monthly MAT Feb, 2018 volume and value (DKK) figures

Stable insulin leadership position in Region AAMEO comprising Africa, Asia, Middle-East and Oceania





Source: IQVIA monthly MAT Feb, 2018 volume figures, numbers do not add up to 100% due to smaller insulin manufacturers

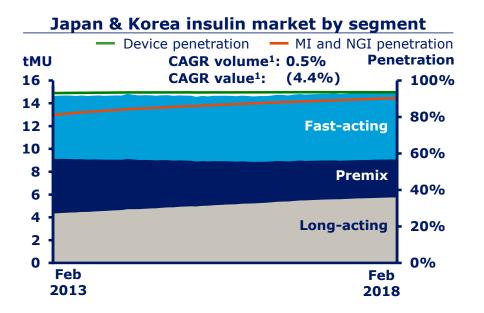


¹CAGR for 5-year period.

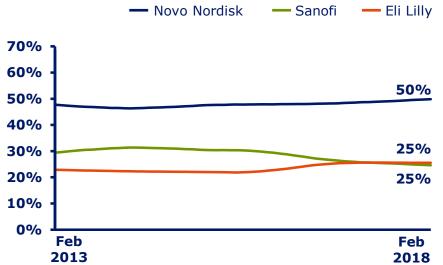
Note: IQVIA only covers the following 8 markets in AAMEO (retail data): Algeria, Egypt, India, New Zealand, Russia, Saudi Arabia, South Africa & Turkey, which together account for 82% of Novo Nordisk insulin sales in AAMEO

Source: IQVIA monthly MAT Feb, 2018 volume and value (DKK) figures MI: Modern insulin; NGI: New-generation insulin

Solid insulin market leadership position in Region Japan & Korea



Japan & Korea modern and new-generation insulin volume market shares



Source: IQVIA monthly MAT Feb, 2018 volume figures



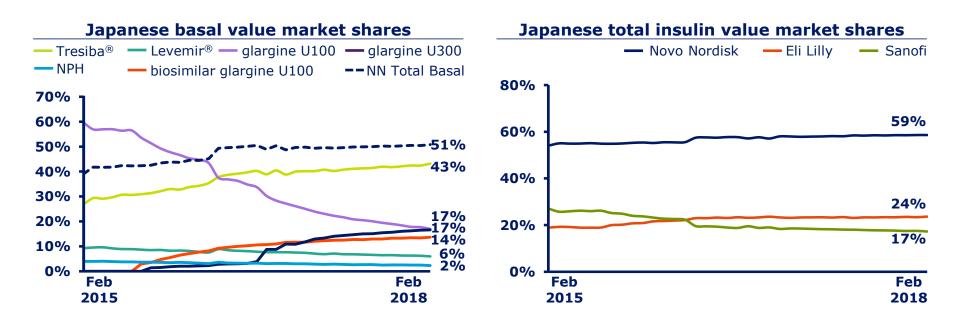
¹ CAGR for 5-year period

MI: Modern insulin; NGI: New-generation insulin

Source: IQVIA monthly MAT Feb, 2018 volume and value (DKK) figures



Solid Tresiba[®] performance strengthens basal insulin market share in Japan



Source: IQVIA monthly MAT Feb, 2018 value figures

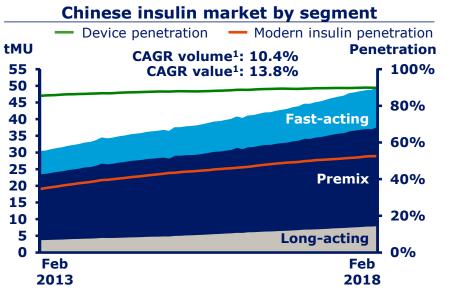
changing

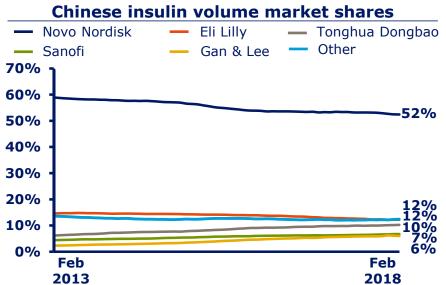
Source: IQVIA monthly MAT Feb, 2018 value figures



novo nordis

Solid volume growth in the Chinese insulin market





Note: Only selected competitors shown

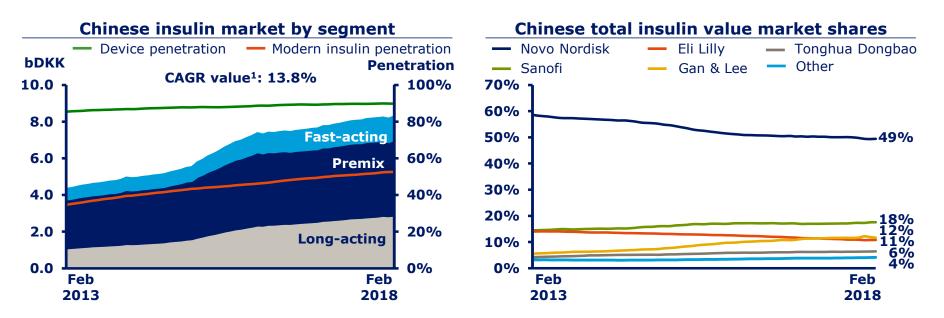
Source: IQVIA monthly MAT Feb, 2018 volume figures, numbers do not add up to 100% due go to smaller insulin manufacturers not included



¹ CAGR for 5-year period

Note: IQVIA covers around 50% of the total Chinese market (hospital data) Source: IQVIA monthly MAT Feb, 2018 volume and value (DKK) figures

Continued value growth in the Chinese long-acting insulin segment



¹ CAGR for 5-year period

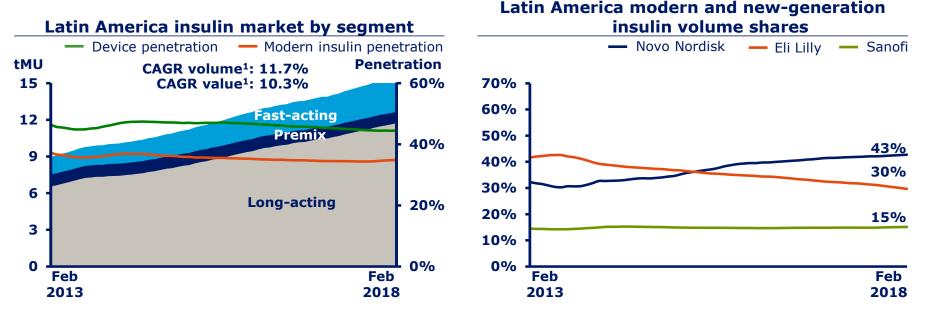
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Note: IMS covers around 50% of the total Chinese market (hospital data) Source: IQVIA Rolling MAT Feb, 2018 value (DKK) figures Note: Only selected competitors Source: IQVIA Rolling MAT Feb, 2018 value figures



novo nord

Strengthened insulin volume market share in Region Latin America



¹ CAGR for 5-year period

Note: IMS only covers the following 4 markets in Latin America (retail data): Argentina, Brazil, Colombia, Mexico Source: IQVIA monthly MAT data Feb, 2018 volume and value (DKK) figures MI: Modern insulin; NGI: New-generation insulin

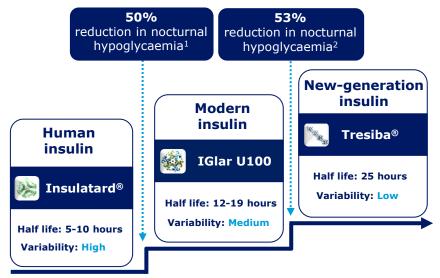
Note: Only top-3 shown

Source: IQVIA monthly MAT data Feb, 2018 volume figures, numbers do not add up to 100% due to smaller insulin manufacturers not included MI: Modern insulin; NGI: New-generation insulin

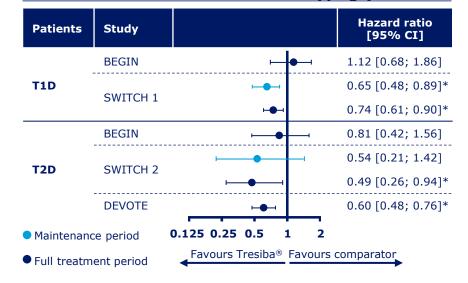


Tresiba[®] sets a new standard for basal insulin initiation by lowering the risk of hypoglycaemia

Tresiba[®] is a leap on the innovation ladder by further reducing nocturnal hypoglycaemia



Tresiba[®] has consistently demonstrated relevant reductions in severe hypoglycaemia



¹ P. D. Home, A. Fritsche, S. Schinzel & M. Massi-Benedetti, Diabetes, Obesity and Metabolism 12: 772– 779, 2010

 2 DEVOTE, American Diabetes Association 77th Scientific Sessions, 3-CT-SY22, June 12 2017 IGlar U100: Insulin glargine U100

* Statistically significant difference

Note: Phase 3a BEGIN: Severe=third-party assistance; Phase 3b SWITCH: severe=third-party assistance and adjudicated; Phase 3b DEVOTE: severe=third-party assistance.

T1D: Type 1 diabetes; T2D: Type 2 diabetes; CI: Confidence interval

Source: Ratner et al. Diabetes Obes Metab 2013; Lane et al. Diabetologia 2016;59; Wysham et al.

Diabetologia 2016; DEVOTE, American Diabetes Association 77th Scientific Sessions, 3-CT-SY22, June 12 2017

Competitive Tresiba[®] label across the USA, Europe and Japan

Tresiba[®] label characteristics in the USA, Europe and Japanese markets

	USA	Europe	Japan
Profile	 Half-life of 25 hours and duration of action of at least 42 hours Day to day variability of 20% 	 Duration of action beyond 42 hours Four times lower day-to-day variability vs insulin glargine 	 Duration of action up to 26 hours in Japanese patients Four times lower day-to-day variability vs insulin glargine
Efficacy	 Non-inferior HbA_{1c} reduction Numerically greater FPG reduction Numerically lower insulin dose¹ 	 Non-inferior HbA_{1c} reduction Numerically greater FPG reduction 	 Non-inferior HbA_{1c} reduction Numerically greater FPG reduction
Safety	 Overall safety consistent with insulin Hypoglycaemia rates for Tresiba[®], but not comparator 	 Overall safety consistent with insulin Lower rate of overall and nocturnal hypoglycaemia 	 Overall safety consistent with insulin Lower rate of nocturnal hypoglycaemia in Asian subjects
Convenience	Injection any time of dayUp to 80 and 160 units per injection	 Adjusting injection time when needed Up to 80 and 160 units per injection 	 In case of missed dose take as soon as possible

¹ Observed in majority of the trials

hanging liabetes®



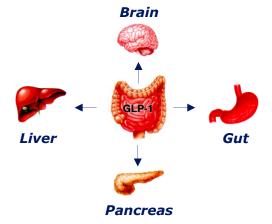
GLP-1

	THOMAS AND	Text I	TO HOW	1. GLP-1 treatment	59
Netros	TELEVISION AND			2. GLP-1 market growth and market s	share 60
C.C.A.				3. Victoza [®] market share	62
	K Z		WW W	4. GLP-1 vs OAD	63
	Contraction of the second			5. Victoza [®] value growth and market	share 64
SAL O	Chest of		ALC: SA	6. GLP-1 pipeline	65
194				7. Ozempic [®]	66
				8. GLP-1 market value in Regions	67
				9. SUSTAIN	73-75
REN YANXIA Ren has type 2 diab China	petes				novo nordisk [®]

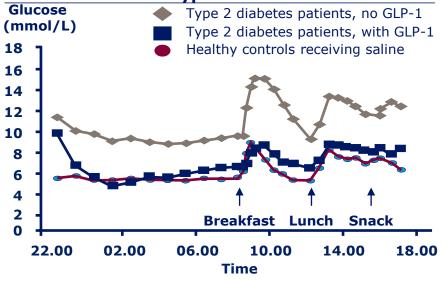
GLP-1 effect dependent on level of blood glucose

GLP-1 mechanism of action when blood sugar levels increase

- · Increases insulin secretion in the pancreas
- Reduces glucagon secretion in the liver
- Slows gastric emptying in the gut
- Creates sense of satiety in the brain



GLP-1 lowers blood glucose in patients with type 2 diabetes

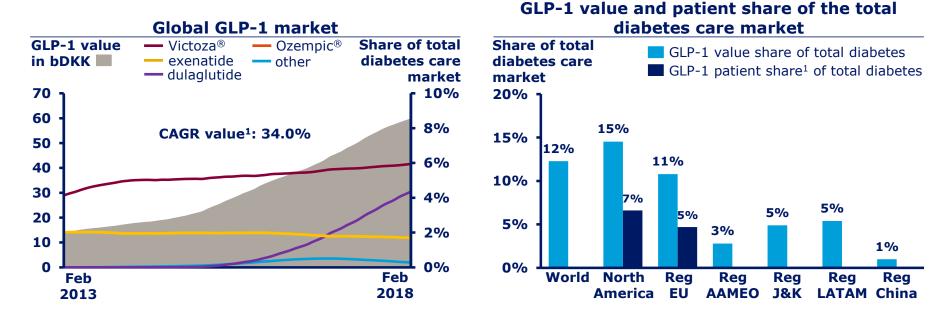


Source: Rachman et al. Diabetologia 1997;40:205-11





The GLP-1 segment accounts for 12% of the global diabetes care market value



Reg: Region; AAMEO: Africa, Asia, Middle-East and Oceania; J&K: Japan & Korea; LATAM: Latin America. ¹Patient share is indicative and based on data for US, UK, Germany and France only. Source: Value data; IQVIA monthly MAT Feb, 2018. Patient data; IQVIA Disease Analyser (DE, FR, UK), QuintilesIQVIA LRx (USA), Feb 2018

¹CAGR for 5-year period Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)

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8% 1%

4%

38%

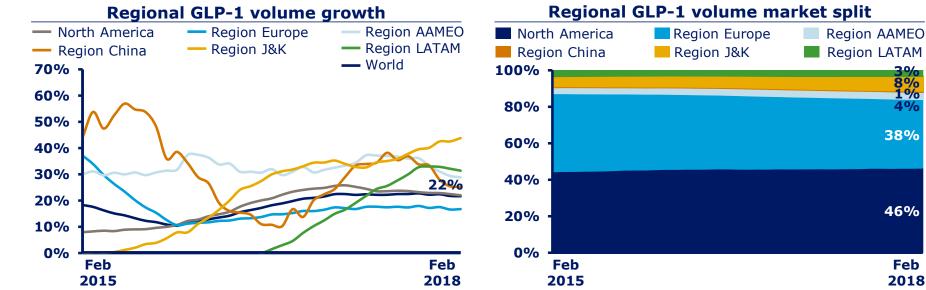
46%

Feb

2018

novo nordis

Strong GLP-1 volume growth in all regions



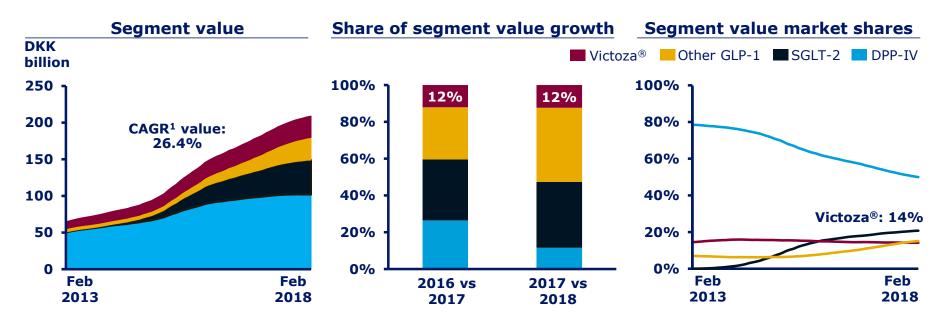
J&K: Japan & Korea; AAMEO: Africa, Asia, the Middle East and Oceania; LATAM: Latin America Note: Data is sensitive to changes in IMS data collection and reporting methodology Source: IQVIA monthly MAT Feb, 2018 volume figures



changing diabetes

Regional GLP-1 volume market split

Victoza[®] maintains a 14% value market share in the GLP-1, SGLT-2 and DPP-IV segment



¹ CAGR for 5-year period

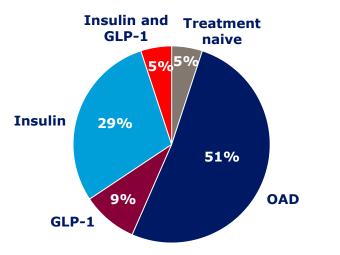
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Note: Segment only includes DPP-IV, GLP-1 & SGLT-2. Other oral anti-diabetic agents and insulin excluded Source: IQVIA MAT Feb, 2018 value figures

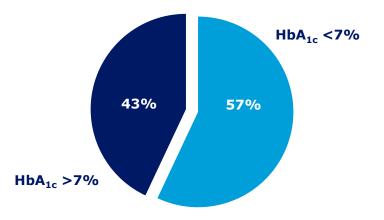


GLP-1 patients primarily switch from OADs and untapped potential is large with many OAD patients not in control

GLP-1 source of business (new-to-brand prescription market share)



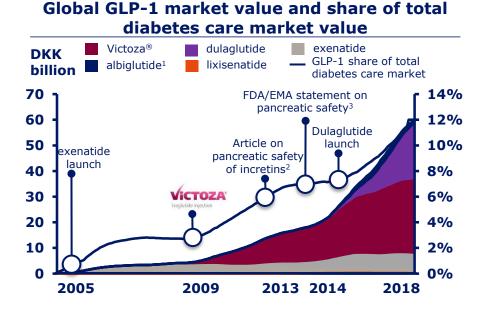
Share of patients on OADs achieving HbA_{1c} below 7% in major European countries



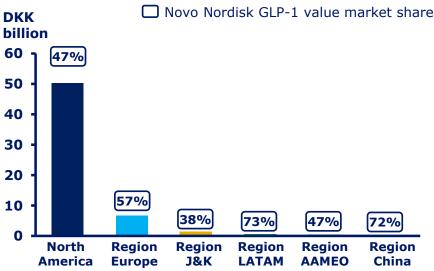
Note: Data based on data from France, Germany, UK and USA only OAD: Oral anti-diabetic (includes but is not limited to DPP-IV, SGLT-2, metformin and sulfonylurea) Source: IQVIA Disease Analyser (France, Germany and UK) and IQVIA (formerly IMS) LRx (USA), Sep 2017 Note: Data based on data from France, Germany and UK only Source: IQVIA Disease Analyser (France, Germany and UK), Sep 2017



Significant growth in GLP-1 market with leading market share for Victoza®



Novo Nordisk GLP-1 value market share leading in all regions except Japan & Korea



AAMEO: Africa, Asia, Middle-East and Oceania: J&K: Japan & Korea: LATAM: Latin America Source: Reported sales until Feb 2018; IOVIA MIDAS, Feb 2018



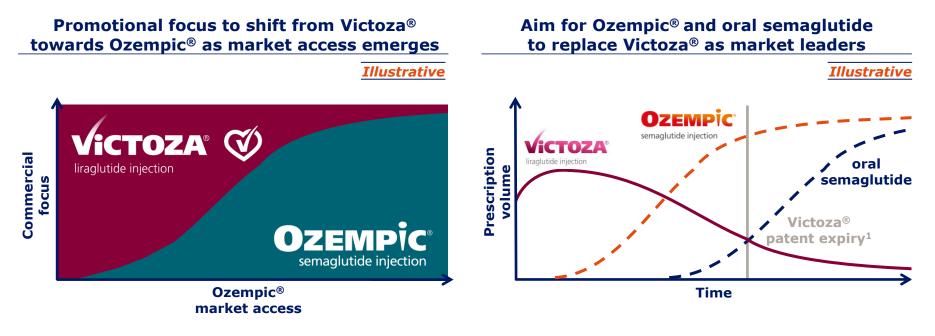
 ¹ Manufacturing and sale of albiglutide to be discontinued by Jul 2018
 ² Butler et al, Marked Expansion of Exocrine and Endocrine Pancreas With Incretin Therapy in Humans With Increased Exocrine Pancreas Dysplasia and the Potential for Glucagon-Producing Neuroendocrine Tumors, Diabetes, Vol. 62, Jul 2013 ³ Egan et al, Pancreatic Safety of Incretin-Based Drugs — FDA and EMA Assessment, The New England

Journal of Medicine 370:9, 27 Feb 2014

Source: IQVIA MIDAS, monthly data, Feb 2018 (Note: IQVIA data does not adequately capture rebates resulting in an overstatement of market value)

FDA: US Food and Drug Administration; EMA: European Medicines Agency

Ambition for Ozempic[®] to become leading weekly GLP-1, with daily GLP-1 use shifting to oral semaglutide



¹ Victoza patent expiry expected in 2022/2023 in most markets





OZEMPIC approved in the USA and in the EU

	Ozempic [®] label in the USA	CV data from SUSTAIN 6 trial in Ozempic [®] EU label			
Profile	 Adjunct to diet and exercise to improve glycaemic control Two therapeutic dosages, 0.5 mg and 1 mg 		Ozempic [®] label	Victoza® label	
Efficacy	Reduction in HbA _{1c} vs comparators ¹	Trial	SUSTAIN 6	LEADER	
	Reduction in body weight vs comparators ¹	Patients	3,297	9,340	
Conve- nience	 Administered once-weekly To be launched in the Ozempic[®] pen 	Reference to CV results in indication	Included	Included	
Safety	 Retinopathy wording similar to insulin labels Cardiovascular safety with number of MACE events in clinical section² 	MACE	HR: 0.74 ¹	HR: 0.87 ²	
		Kaplan-Meier	Included	Included	

¹ 95% confidence interval [0.58;0.95]. ² 95% confidence interval [0.78;0.97] CV: Cardiovascular; MACE: Major adverse cardiovascular events; HR: Hazard ratio





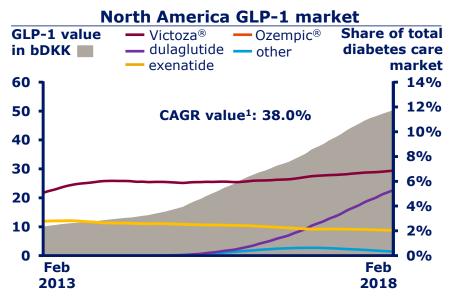
¹ Statistically significant reduction compared to comparators: placebo, sitagliptin, exenatide extended-

²In SUSTAIN 6, there were 108 MACE events with Ozempic[®] compared to 146 events with placebo,

release and insulin glargine U100 (phase 3a SUSTAIN trial programme)

equivalent to an event rate of 6.6% with Ozempic® and 8.9% with placebo

The GLP-1 segment accounts for 15% of total diabetes care market value in North America



¹ CAGR for 5-year period Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)

changing

Key observations for Victoza[®] in the US market

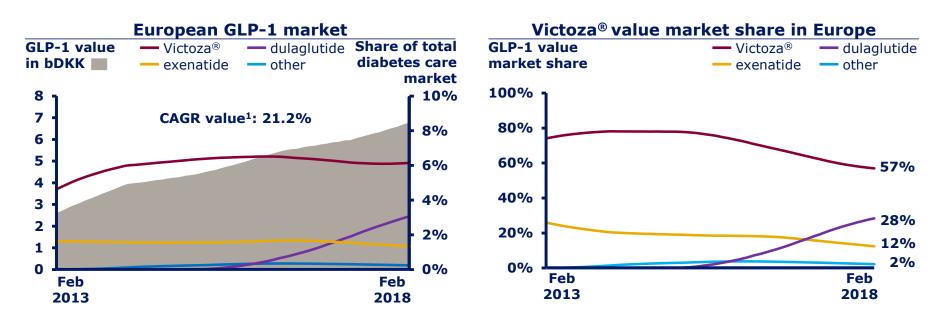
- Victoza $^{\mbox{\tiny R}}$ value market share within the GLP-1 segment is $54\%^1$
- Around 80% of Commercial and around 90% of Medicare Part D GLP-1 market volume is covered without restrictions²
- Around 93% of new patients who start on Victoza[®] transition from outside of GLP-1 segment³
- Around 71% of prescriptions are for the higher dose 1.8 $\rm mg^4$

1. Source: IQVIA NSP monthly, MAT Feb 2018

- FingerTip Formulary bridge/ February 2018 Nomenclature and Xponent PlanTrak using week-ending 2 March 2018; only considers bridged volume; excludes cash and mail order data;
- 3. IQVIA SOB, week ending 23 March 2018
- 4. IQVIA weekly NPA, week ending 30 March 2018



The GLP-1 segment accounts for around 11% of total diabetes care market value in Europe



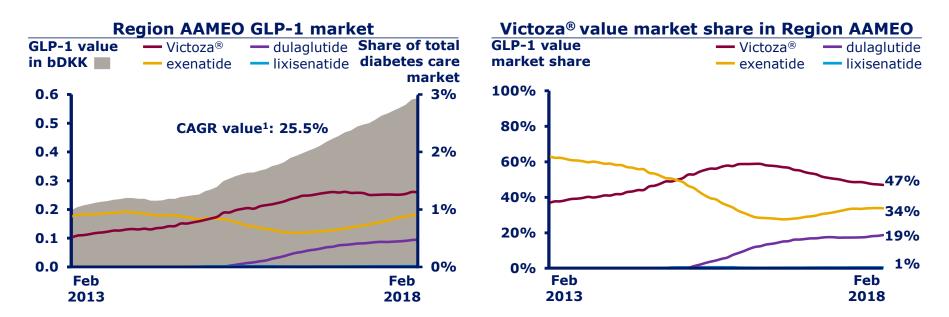
Source: IQVIA monthly MAT Feb, 2018 value figures (DKK), market share does not add up to 100% due to rounding



¹ CAGR for 5-year period Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)



The GLP-1 segment accounts for 3% of total diabetes care market value in Region AAMEO

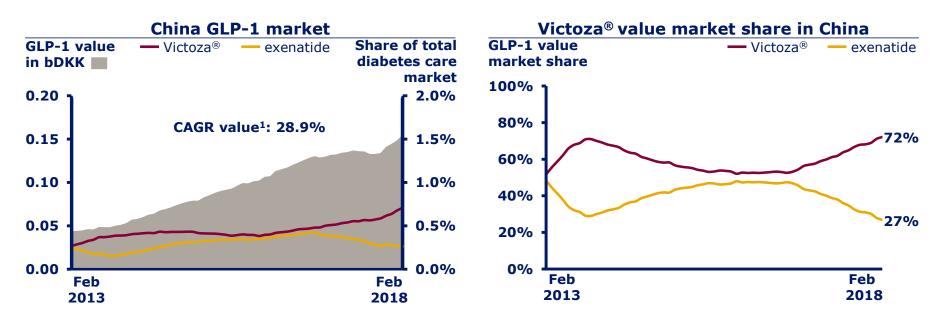


¹ CAGR for 5-year period AAMEO: Africa, Asia, the Middle East and Oceania Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)

changing diabetes® Source: IQVIA monthly MAT Feb, 2018 value figures (DKK),), market share does not add up to 100% due to rounding



The GLP-1 segment accounts for around 1% of the total diabetes care market value in Region China



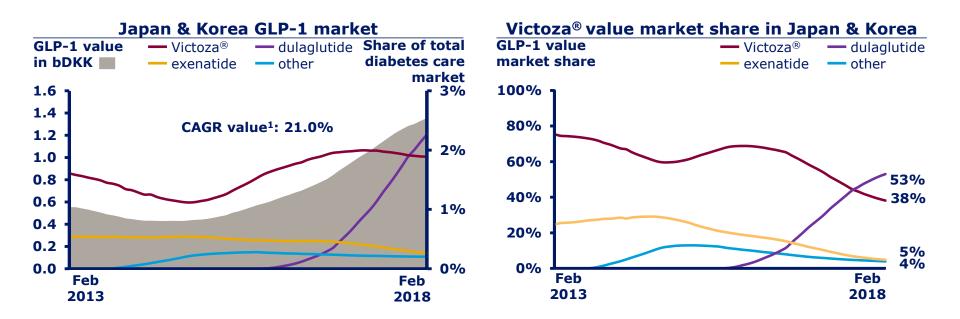
¹ CAGR for 5-year period Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)

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Source: IQVIA monthly MAT Feb, 2018 value figures (DKK), market share does not add up to 100% due to rounding



The GLP-1 segment accounts for around 5% of the total diabetes care market in Region Japan & Korea



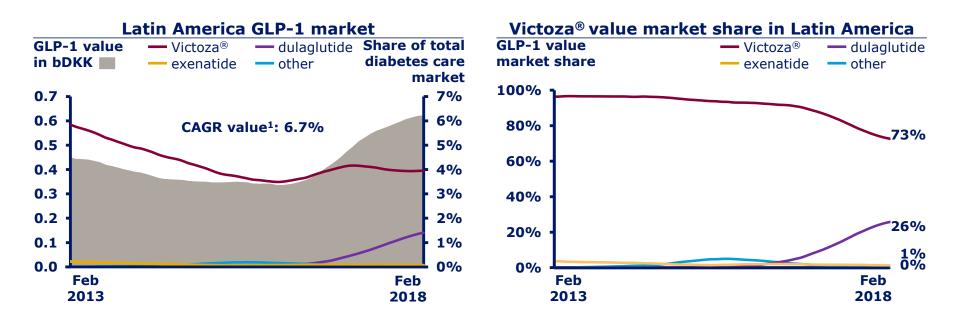
Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)



¹ CAGR for 5-year period Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)

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Strong Victoza[®] market leadership in Region Latin America



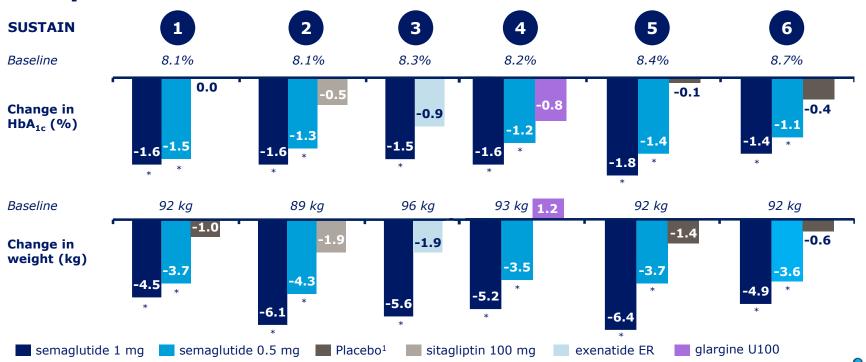
Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)



 1 CAGR for 5-year period Source: IQVIA monthly MAT Feb, 2018 value figures (DKK)

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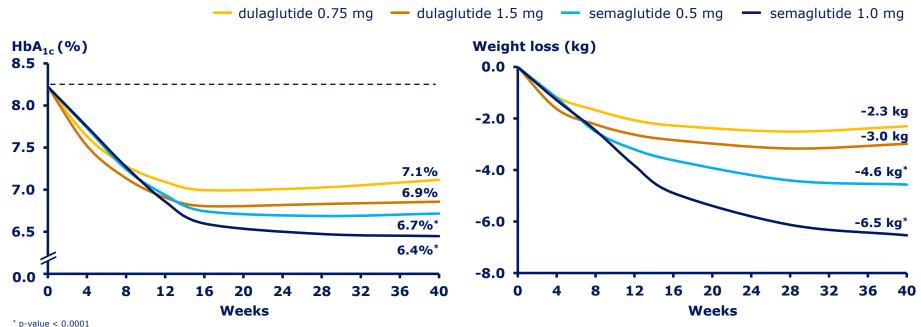
SUSTAIN phase 3a trials with semaglutide successfully completed



novo nordisk[®]

* Statistically significant; ¹ SUSTAIN 1: Once-weekly semaglutide versus placebo in drug-naïve subjects with type 2 diabetes; SUSTAIN 5: Once-weekly semaglutide versus placebo in subjects with type 2 diabetes added to insulin; SUSTAIN 6: Once-weekly semaglutide versus placebo, added to standard-of-care ER: Extended-release

Semaglutide demonstrated superiority on both glucose control and weight loss vs dulaglutide in SUSTAIN 7 trial

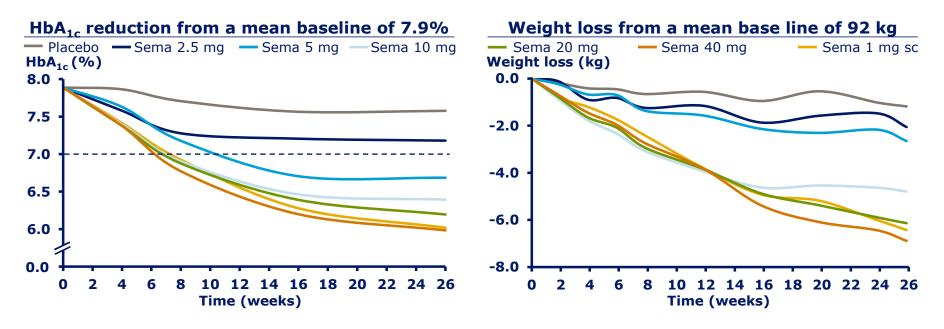


Note: Inclusion criteria: Male or female, age \geq 18 years, stable treatment with metformin, HbA_{1c} 7.0-10.5%; from a mean baseline of 8.2% HbA_{1c}



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Oral semaglutide reduced HbA_{1c} and body weight in a 26-week phase 2 trial in type 2 diabetes



Inclusion criteria: Type 2 diabetes; 7.0% ≤ HbA_{1c} ≤ 9.5%; treatment with diet and exercise with or without metformin; sc: subcutaneous; sema: semaglutide

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Investor Presentation

First three months of 2018

Obesity

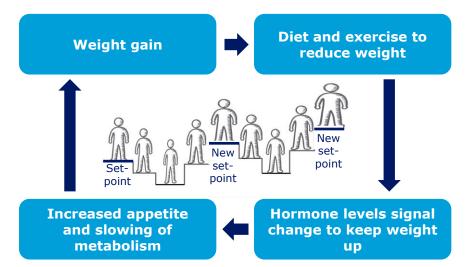


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Obesity is a chronic disease that requires treatment

The set-point theory portrays how metabolic changes affect the ability to lose weight



The body fights weight loss for people with obesity

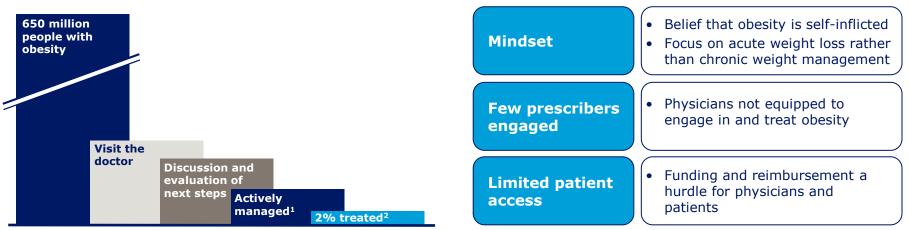
- The body "remembers" its highest body weight and defends this body weight as the "new normal weight"
- During weight loss, changes occur in appetite-regulating hormones, which increase hunger
- If people with obesity do not eat enough, the hormones trigger the body to conserve energy
- Changes in hormones persist for at least 5-10 years following weight loss



Key barriers to effective obesity management

Treatment rate is low and an increase requires a change of mindset and physician engagement

Only 2% of the 650 million people with obesity are treated with prescription medication

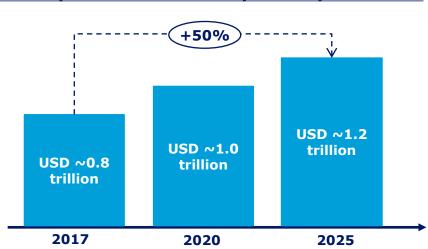


 $^2\,2\%$ of people with obesity are estimated to be treated with anti-obesity medication Source: IQVIA MIDAS 2017





The healthcare cost associated with obesity expected to increase



Global healthcare costs related to obesity expected to increase by 50% by 2025

Increase in healthcare costs primarily driven by obesity-related comorbidities

- Today, 650 million people have obesity globally
- By 2025, ~1 billion people are expected to have obesity
- If left untreated, by 2025, the costs of treating complications of obesity is expected to reach USD ~550 billion in the US and USD ~1.2 trillion globally
- The increased healthcare costs are primarily driven by obesity-related comorbidities such as type 2 diabetes and cardiovascular disease

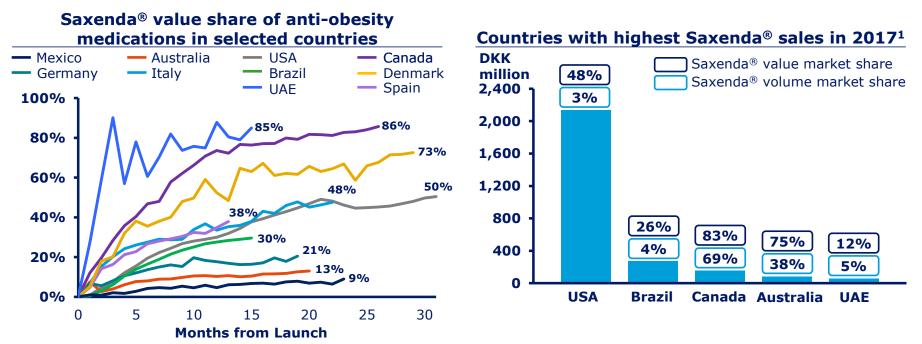
Source: World Obesity Federation, 2017

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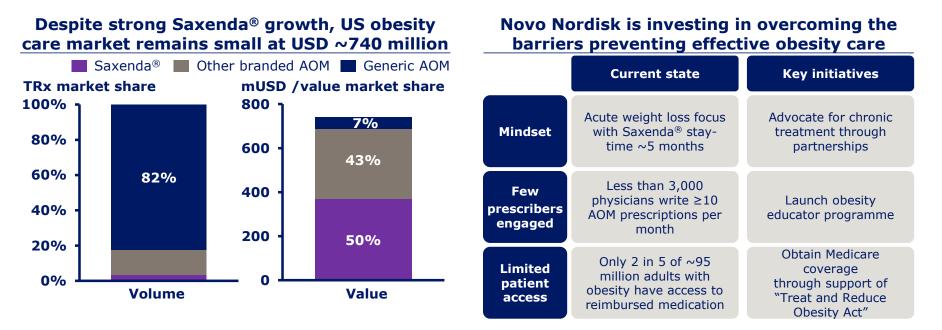
Saxenda[®] now launched in 25 countries



Source: IQVIA Dec 2017 Note: The market for anti-obesity medication varies significantly in size between countries

changing diabetes® ¹ Reported sales for the full year 2017 Source: IQVIA MIDAS, Dec 2017

Saxenda[®] has rapidly grown value market share, but market development efforts are required to expand the market



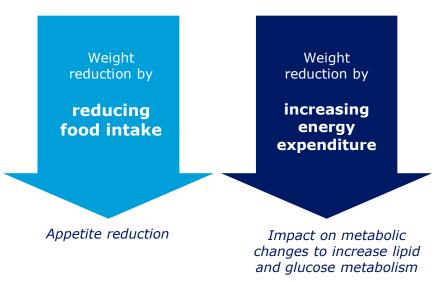
AOM: Anti-obesity medication; TRx: Total prescriptions Source: IQVIA NPA and NSP moving annual total through February 2018



chạnging

The obesity pipeline consists of projects addressing both appetite reduction and energy expenditure

How to address obesity from a medical perspective



:hanging

Novo Nordisk obesity products and pipeline

Projects:	Status:	2018 expected:
Saxenda [®]	Launched	
semaglutide – QW GLP-1	Phase 2 \longrightarrow	Phase 3
G530L – glucagon analogue ¹	Phase 1b \longrightarrow	Phase 1b
AM833 – amylin analogue	Phase 1b \longrightarrow	Phase 2 ready
PYY1562 – PYY analogue	Phase 1b \longrightarrow	Phase 1b ²
NN9499 – FGF21 obesity ³	Phase 1a \longrightarrow	Phase 1b
NN9277 – GG-co-agonist	Phase 1a \longrightarrow	Phase 1b
NN9423 – Tri-agonist 1706	Phase 1a \longrightarrow	Phase 1b

Appetite reduction Energy expenditure Appetite reduction and energy expenditure

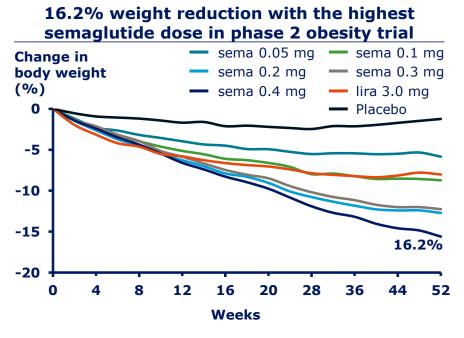
¹ Phase 1 in combination with liraglutide and phase 2 planned in combination with semaglutide ² Phase 1b completed with monotherapy, phase 1b in combination with semaglutide planned for 2018

³ FGF21 potentially also targets appetite reduction

Phase 1a: Single-dose trials; Phase 1b: Multiple-dose trials QW: Once-weekly



Semaglutide demonstrated unprecedented weight loss in phase 2 obesity trial



Note: All treatment arms are adjunct to diet and exercise QD: Once-daily; sema: Semaglutide; lira: Liraglutide

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Key results and next steps

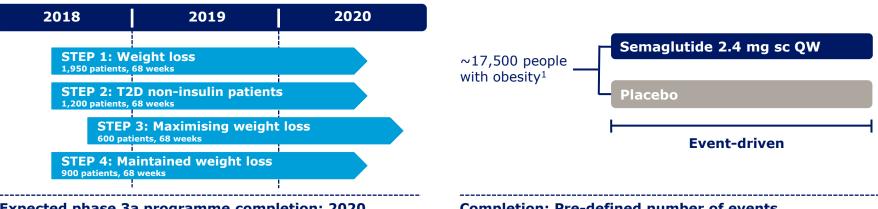
- Participants in the highest dose arms continued to lose weight over the duration of the trial as the response curve did not plateau in the highest dose arm
- Nearly two out of three patients experienced a weight loss of 10% or more with the highest dose of semaglutide
- 80% of patients completed the trial
- Once-daily semaglutide had a well-tolerated safety profile, with the most common adverse events being gastrointestinal
- Next steps: Phase 3 programme STEP and cardiovascular outcomes study SELECT to be initiated in 2018



Phase 3a programme STEP and CV outcomes study SELECT with semaglutide 2.4 mg in obesity to be initiated

Semaglutide in obesity phase 3a programme, STEP, expected to include ~4,500 patients¹

Cardiovascular outcomes study, SELECT, planned for semaglutide in obesity



Expected phase 3a programme completion: 2020

Completion: Pre-defined number of events

¹ Inclusion criteria: Male or female, age \geq 18 years, BMI: \geq 30 kg/m² or \geq 27 kg/m² and \geq 1 comorbidity Note: All treatment arms are adjunct to diet and exercise CV: Cardiovascular: T2D: Type 2 diabetes

¹ Inclusion criteria: Male or female >45 years, BMI >27 kg/m², myocardial infarction or stroke >60 days, HbA_{1c} <6.5% OW: Once-weekly: sc: Subcutaneous



Biopharm and other chronic areas



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Growth hormone

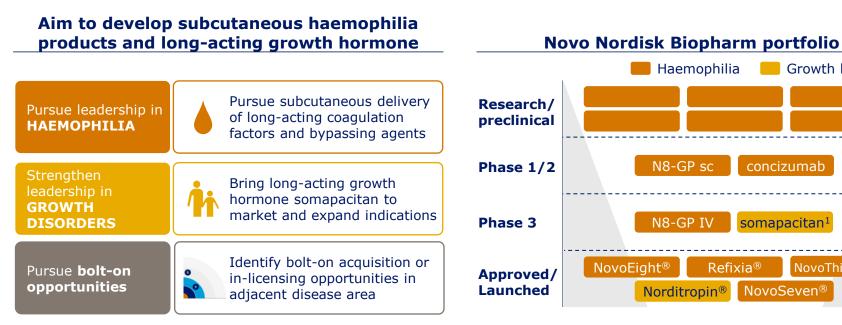
NovoThirteen®

concizumab

somapacitan

NovoSeven[®]

Biopharm R&D efforts reflect Novo Nordisk's commitment to satisfy unmet patient needs



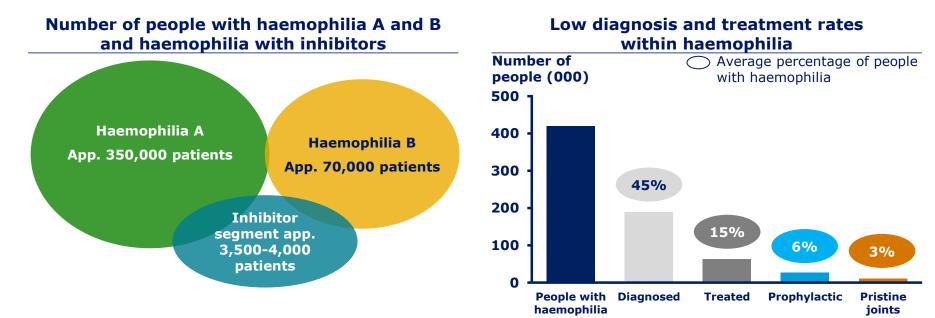
¹ Somapacitan is currently in phase 3 for adult growth hormone deficiency and phase 2 for growth hormone deficiency in children

Note: NovoThirteen® and Refixia® are the brand names in the majority of countries, whereas these products are marketed as TRETTEN® and Rebinyn® respectively in the US sc: Subcutaneous; IV: Intravenous





Haemophilia is a rare disease with severe unmet medical needs



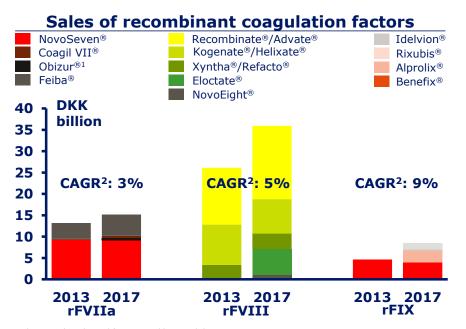
Note: The inhibitor segment represents people with haemophilia and high titre inhibitors to their normal replacement treatment

Source: Estimates based on prevalence data in literature (Stonebraker JS et al. Haemophilia. 2010; 16: 20-32), World Federation of Haemophilia – Annual Global Survey 2012, UDC database in the US

changing diabetes® Source: World Federation of Haemophilia – Annual Global Survey 2016



Global haemophilia market is growing by high-single digit



Strategic positioning of Novo Nordisk's haemophilia portfolio

Novo Nordisk compound	Status	Strategic position
NovoSeven [®]	Launched	Maintain market leadership
NovoEight [®]	Launched	Establish presence in a competitive market place
N8-GP	Submitted ³	Contribute to market conversion
Refixia®/ Rebinyn®	Approved ⁴	Contribute to new treatment paradigm
NovoThirteen®	Launched	Launch first recombinant product

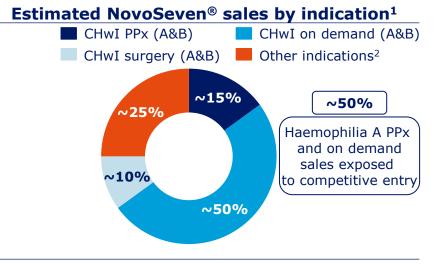
 3 Submitted in the USA and the EU in Q1 2018 4 Refixia® is the brand name for N9-GP in the EU, and Rebinyn® is the brand name in the US



 $^1\,\text{Obizur}^\circledast$ only indicated for acquired haemophilia $^2\,\text{CAGR}$ for 5-year period

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~50% of historic NovoSeven® sales exposed to competition, but opportunities remain in other indications



NovoSeven® sales of DKK 9.2 billion³

¹ Based on internal Novo Nordisk estimate

² Other indications include areas like acquired haemophilia, Glanzmann's thrombastenia and congenital FVII deficiency

³ Reported sales for full year 2017

CHwI: Congenital haemophilia with inhibitors; PPx: Prophylaxis; A&B: Haemophilia A and B

Opportunities and challenges for NovoSeven® franchise

Challenge

• Roche's Emicizumab launched recently, leading to intensified competition in the segment for haemophilia A with inhibitors

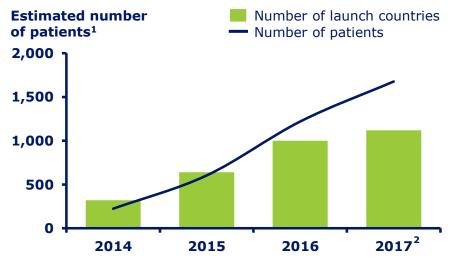
Opportunities

- Maintain position as preferred agent for all bleeds including breakthrough bleeds for patients on prophylactic treatment
- Improving diagnosis and treatment of select indications outside of haemophilia A with inhibitors with special focus on acquired haemophilia
- Drive development of NovoSeven[®] franchise in underdeveloped Chinese market following inclusion on National Drug Reimbursement List



NovoEight[®] volumes continue to grow despite increasing penetration of long-acting FVIII products

NovoEight[®] roll-out continues and the number of patients has steadily increased



¹ Novo Nordisk estimated accumulated patient number

² Novo Nordisk estimated accumulated patient number as of October 2017

FVIII: Coagulation factor VIII

NovoEight[®] has potential to increase volume share in select segments and markets

Competitive positioning for NovoEight®

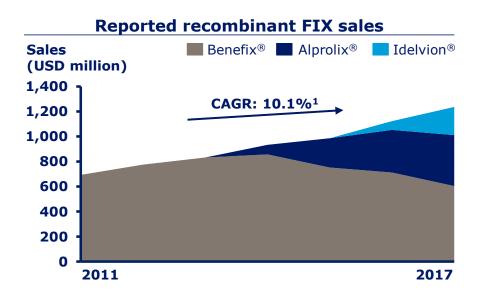
- Temperature stabilty at high room temperature and best-inclass portability
- Uptake driven by Novo Nordisk's strong customer focus and company recognition within the haemophilia community
- Continued volume growth especially in less mature markets with tender opportunities, despite increasing penetration of long-acting FVIII products

Next generation

- Global roll-out of NovoEight $^{\ensuremath{\$}}$ and N8-GP to pave the way for subcutaneous N8-GP



Strong growth among long-acting haemophilia B products as Refixia[®]/Rebinyn[®] is set for launch in the EU and the USA



¹ CAGR for 6-year period FIX: Coagulation factor IX Source: Company reports (Does not include Rixubis[®] as sales are not reported separately)

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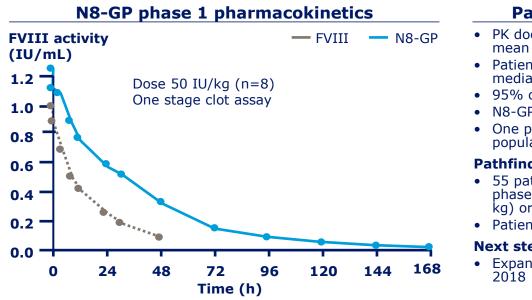
Refixia®/Rebinyn® launched in first countries

- Launched in the first EU countries in 2017
- Launched in the USA in February 2018
- Refixia[®]/Rebinyn[®] offers a unique clinical profile that brings factor levels into the non-haemophilia range for adults and adolescents
- Dialogue ongoing with the FDA and EMA to establish path forward to obtain routine prophylaxis indication in the USA and complete paediatric indication in Europe to include children younger than 12 years old

FDA: US Food and Drug Administration; EMA: European Medicines Agency rFIX: Recombinant coagulation factor IX



N8-GP administered every fourth day reduces median bleeding rate to 1.3 episode per year in phase 3 trial



Source: Tiede et al. J Thromb Haemot. 2013:11:670-675

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Pathfinder 2 headline results (phase 3)

- PK documented single dose half-life of 18.4 hours and mean trough level before next dose of 3%
- Patients on every fourth day prophylaxis (50 IU/kg) had a median ABR of 1.3
- 95% of mild to moderate bleeds managed with 1-2 doses
- N8-GP appeared to have a safe and well tolerated profile
- One patient developed inhibitors, as expected in a population of previously treated haemophilia A patients

Pathfinder 2 extension trial results

- 55 patients with ≤ 2 bleeds during 6 months in the main phase were randomised 2:1 to either once-weekly (75 IU/ kg) or every fourth day (50 IU/kg) treatment for 180 days^1
- Patients in both treatment arms had a median ABR of 0

Next steps

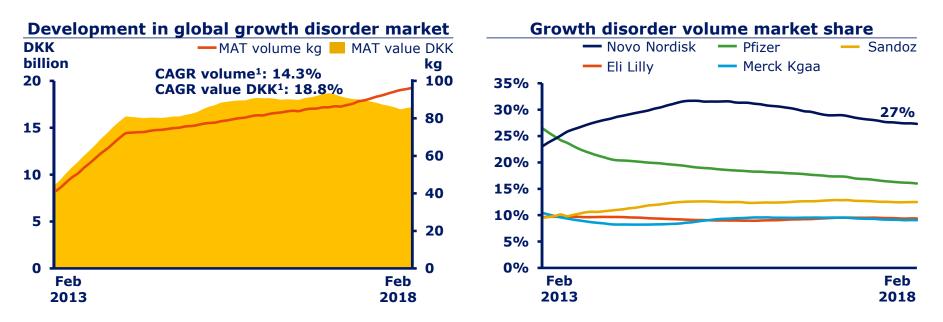
Expansion of production capacity; US/EU submission O1

PK: Pharmacokinetic; ABR: Annualised bleeding rate; IU: International unit ¹ Prophylaxis 75 IU/kg every 7 days (n=38) or prophylaxis 50 IU/kg every 4 days (n=17)



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Novo Nordisk maintains leadership within growth disorder



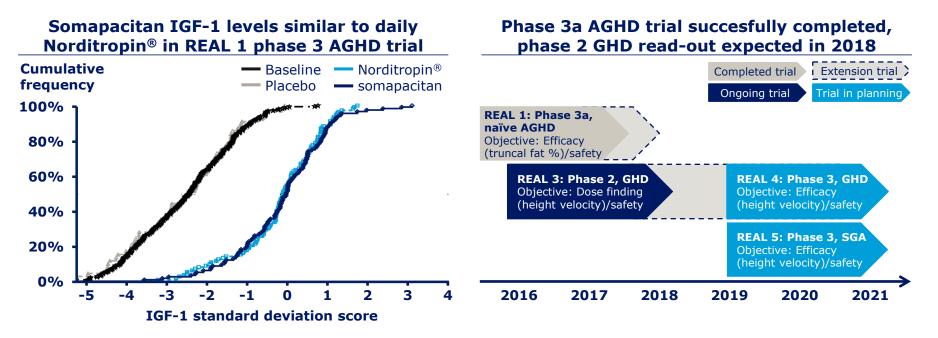
Source: IQVIA monthly MAT Feb, 2018 volume figures

novo nordisk[®]

¹ CAGR for 5-year period Source: IQVIA monthly MAT Feb, 2018 volume figures and value (DKK) figures



Phase 3 extension trial in adults and phase 2 trial in children for once-weekly somapacitan to conclude in 2018



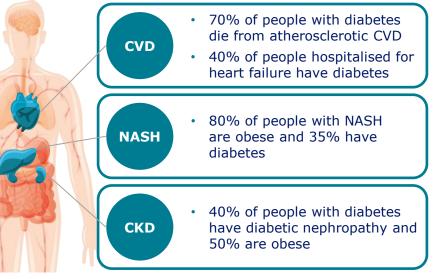
IGF-1: Insulin-like growth factor 1; AGHD: Adult growth hormone deficiency Source: Novo Nordisk data on file; REAL 1, NN8640-4054

changing diabetes® Note: Filing for first indication (AGHD) expected in 2018 GHD: Growth hormone deficiency; SGA: Small for gestational age



Other serious chronic diseases

Serious chronic diseases are often associated with diabetes and obesity



CVD: Cardiovascular disease; NASH: Non-alcoholic Steatohepatitis; CKD: Chronic kidney disease Source: Diabetes Care 2005 Jan; 28(1): 164-176

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New therapeutic areas represent patient populations with high unmet medical needs

	Estimated patients	Number of related deaths					
CVD	~420 million	~20 million annually					
	Estimated patients	Diagnosis rate					
NASH	\sim 15-40 million ¹	~20% ²					

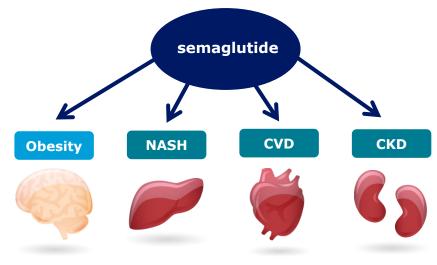
¹ Internal forecast comprising US, Europe and Japan

² Diagnosis rate is considered a major uncertainty to the forecast

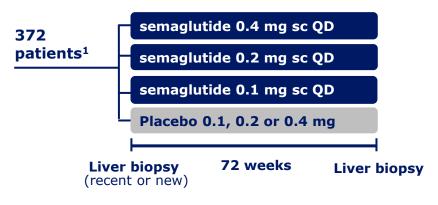
Source: Abera SF et al. Global, Regional, and National Burden of Cardiovascular Diseases for 10 Causes, 1990 to 2015, 2017; Heart Disease and Stroke Statistics, American Heart Association, 2017; Williams CD et al. Prevalence of nonalcoholic fatty liver disease and nonalcoholic steatohepatitis among a largely middle-aged population utilizing ultrasound and liver biopsy, 2011; Addressing the global burden of chronic kidney disease through clinical and translational research, 2014

Trials in obesity and other serious chronic disease areas building on the semaglutide molecule

Planned or ongoing trials with semaglutide addressing other serious chronic diseases



Ongoing phase 2 trial with daily semaglutide vs placebo in patients with NASH



Next steps:

Phase 2 trial expected to complete 2020

CVD: Cardiovascular disease; NASH: Non-alcoholic steatohepatitis; CKD: Chronic kidney disease

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 1 Inclusion criteria: Histological confirmation of NASH, BMI 25–45 kg/m², NASH fibrosis stage 2 or 3, Histological NAFLD Activity Score \geq 4 mg: Milligram; sc: Subcutaneous; QD: Once-daily; MR: Magnetic resonance; NAFLD: Non-alcoholic fatty liver disease



Slide 96

Investor Presentation

Financials



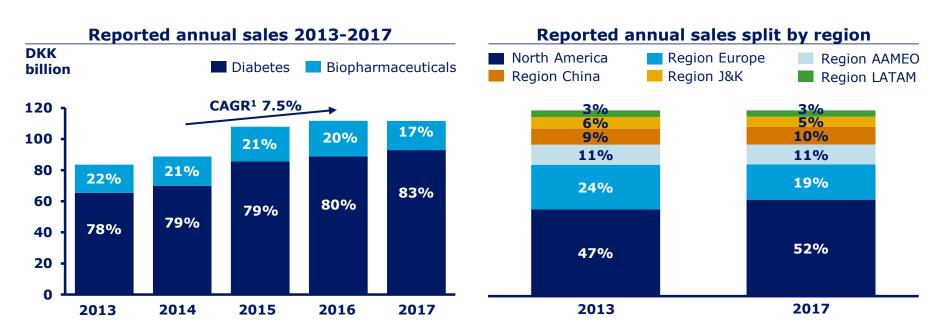
1. Sales growth	98
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6. Currency impact	105
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Solid sales growth driven by diabetes care



AAMEO: Africa, Asia, Middle-East and Oceania; J&K: Japan and Korea; LATAM: Latin America



 $^{\rm 1}\,{\rm CAGR}$ for 5-year period



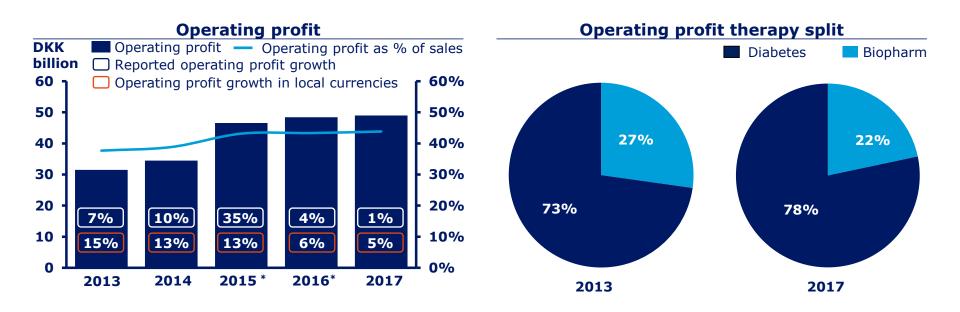
Victoza[®] accounts for 22% of total sales in first three months of 2018

Reported currencies	Sales Q1 2018 (mDKK)	Sales split	Sales full year 2017 (mDKK)	Sales split
Tresiba®	1,755	7%	7,327	7%
Levemir®	2,780	10%	14,118	13%
NovoRapid®	4,695	17%	20,025	18%
NovoMix®	2,501	9%	10,257	9%
Victoza®	5,989	22%	23,173	21%
Saxenda®	770	3%	2,562	2%
Diabetes care and Obesity ¹	22,608	84%	92,877	83%
NovoSeven®	2,154	8%	9,206	8%
Norditropin [®]	1,481	5%	6,655	6%
Biopharmaceuticals ¹	4,322	16%	18,819	17%
Total ¹	26,930	100%	111,696	100%

 1 Values are higher than the sum of the total elements listed due to residual values from products not listed



Solid operating profit growth driven by diabetes

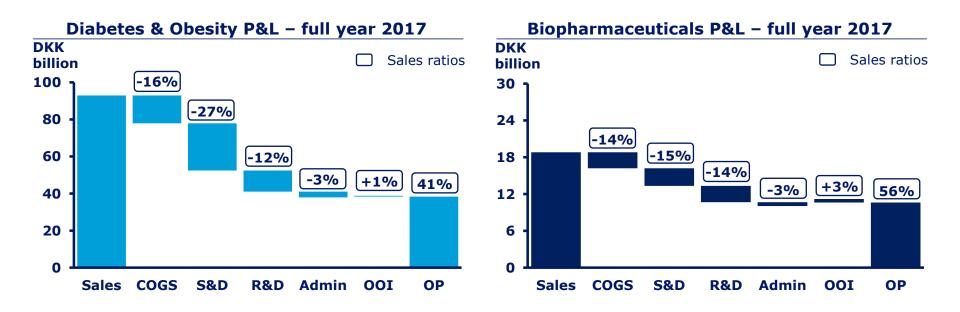


 * Adjusted for the partial divestment of NNIT A/S and inflammatory out-licensing in 2015

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Higher profitability in the biopharmaceuticals segment driven by lower COGS and S&D costs

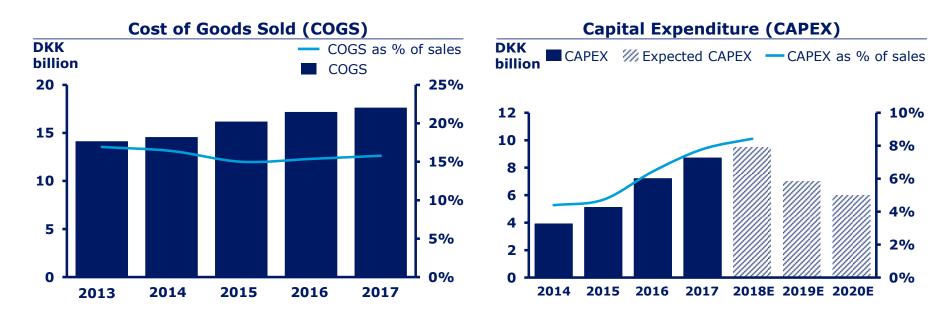


P&L: Profit and Loss; COGS: Cost of goods sold; OOI: Other operating income; OP: Operating profit S&D: Sales and distribution cost; R&D: research and development cost; Admin: administrative cost

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Stable COGS level as % of sales and increasing CAPEX level







2013

Long-term financial targets support focus on profitable growth, capital allocation and cash conversion

Operating profit growth in Operating profit after tax to Cash to earnings local currencies net operating assets (three-year average) Current long-term financial target¹ Current long-term financial target¹ Current long-term financial target¹ Previous long-term financial targets 20% 175% 120% 150% 100% 15% 125% 80% 100% 10% 60% 75% 40% 50% 5% 20% 25% 0% 0% 0% 2013 2014 2015 2016 2017 2011- 2012- 2013- 2014- 2015-2013 2014 2015 2016 2017

¹Long-term target established in connection with the Q3 2016 report. The target of an average operating profit growth of 5% is an average for the period of 4-5 years, with 2015 as the base year. Operating profit after tax to net operating assets target unchanged at 125% and Cash to earnings (three year average) target unchanged at 90% Note: The long-term tipaget are based on an assumption of a continuation of the current business environment; 2016 and 2016 figures are adjusted for the partial divestment of NNIT 4/S and

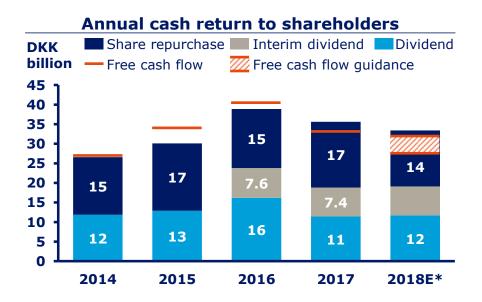
Note: The long-term financial targets are based on an assumption of a continuation of the current business environment; 2015 and 2016 figures are adjusted for the partial divestment of NNIT A/S and inflammatory out-licensing in 2015

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2014 2015 2016 2017

Cash return to shareholders in 2018



* Interim dividend for 2018 to be determined. For illustration only.

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Note: For 2018 expected free cash flow is DKK 27-32 billion. Share repurchase programmes run for 12 months starting February until end January of the following year.

Cash return priorities

- Share repurchase programme of up to DKK 14 billion to be executed during the coming 12 months
- Total programme may be reduced in size if significant product in-licensing or bolt-on acquisition opportunities arise during 2018
- For 2017, the total dividend increased to DKK 7.85 per share of DKK 0.20 (including interim dividend of DKK 3.00 paid in August 2017)
- Dividend distributed twice a year as interim dividend in August and final dividend following Annual General Meeting in March of the following year



Currency impact on Novo Nordisk's P/L

Operational currency impact

- All movements in currencies will directly impact the individual reported functional lines of the Novo Nordisk's profit and loss statement
- The currency effect on e.g. operating profit growth is the difference between the reported and the local operating profit growth
- Key currencies account for around 75-85% of the total currency exposure
- No hedging effects are included in the operating profit

PROFIT AND LOSS	2017	2016
Vet sales	111,696	111,780
Gross profit	94,064	94,597
Gross margin	84.2%	84.6%
ales and distribution costs	28,340	28.377
Percentage of sales	25.4%	25.4%
Research and development costs	14,014	14,563
Percentage of sales	12.5%	13.0%
Administrative costs	3,784	3,962
ercentage of sales	3.470	3.370
Other operating income, net	1,041	737
Non-recurring income from the partial ivestment of NNIT A/S	-	
Operating profit	48,967	48,432
Operating margin Operating margin adjusted for the partial	43.8%	43.3%
livestment of NNIT A/S	3.8%	43.3%
let financials		
	(287)	(634)
ront before income taxes — —	48,680	47,798
ncome taxes	10,550	9,873
ffective tax rate	21.7%	20.7%
Net profit	38,130	37,925
let profit margin	34.1%	33.9%

Financial currency impact

- All gain/losses from hedging contracts are included in the financial income/expenses
- All key currencies are hedged:
 - USD 12 months
 - CNY 6 months
 - JPY 12 months
 - GBP 12 months
 - CAD 10 months
- Hedging is primarily performed with the use of forward contracts
- Net financials includes hedging gain/loss including the cost of hedging (interest differential) and the effect from currency gain/losses of balances in non-hedged currencies.



Currency impact on operating profit

Operational currency impact Operational currency impact in 2017	Key currencies	Avg FX rate 2016	Avg FX rate 2017	%-change	Yearly impact of 5% change (mDKK)	Estimated impact from key currencies
 The operational currency impact is the difference between e.g. operating profit growth in reported currency (Danish kroner) and operating profit 	USD	6.733	6.602	-1.9%	2,100	-816
growth in local currencies	CNY	1.013	0.976	-3.7%	320	-235
 In 2017 the operating profit was: In Danish kroner: 48,967 million 	JPY	6.200	5.884	-5.1%	200	-204
In local currencies: 50,737 million	GBP	9.121	8.496	-6.9%	90	-123
Currency impact: -1,770 million	CAD	5.081	5.084	0.0%	80	1
 Estimation of operational currency impact from key currencies Novo Nordisk guides on currency sensitivity of key currencies in guarterly 	Total estimated	-1.378				
announcements	ARS	0.5	0.4	-20.0%		
 Sensitivity table gives an indication of gain/loss of a 5% immediate change in exchange rates compared to exchange rates on announcement day 	TRY	223	181	-18.8%		
 Key currencies account for around 75-85% of the currency exposure 	INR	10.0	10.1	1.0%		
• Rey currencies account for around 75-85% of the currency exposure	RUB	10.1	11.3	11.9%		
 Estimation of operational currency impact from other currencies Significant changes in other currencies will additionally impact the 	BRL	195	207	6.2%		
operational currency in exposure	Total currency	impact from ot	her currencie	s in 2017 (resid	lual)	-392
 In 2017, the depreciation of the ARS and TRY had an additional negative impact on the operational currency exposure. 	Total currency	impact in 2017				-1,770



Key currency development 2017 vs 2018

Average FX rates ¹	Q1 2017	Q1 2018	Q1 Change	Q2 2017	Q2 ² 2018	Q2 Change	Q3 2017	Q3 2018	Q3 Change	Q4 2017	Q4 2018	Q4 Change	FY 2017	FY 2018 ³	FY Change
USD/DKK	698	606	-13%	676	610	-10%	633	612	-3%	632	612	-3%	660	610	-8%
ЈРҮ/ДКК	6.1	5.6	-8%	6.1	5.6	-8%	5.7	5.6	-2%	5.6	5.6	0%	5.9	5.60	-5%
GBP/DKK	865	843	-3%	864	853	-1%	829	853	3%	839	853	2%	849	850	0%
CNY/DKK	101	95	-6%	98	97	-2%	95	97	2%	96	97	1%	98	96	-1%
CAD/DKK	527	480	-9%	502	475	-5%	505	474	-6%	498	474	-5%	508	476	-6%

Note: Spot rates as per 25 April 2018

¹DKK per 100

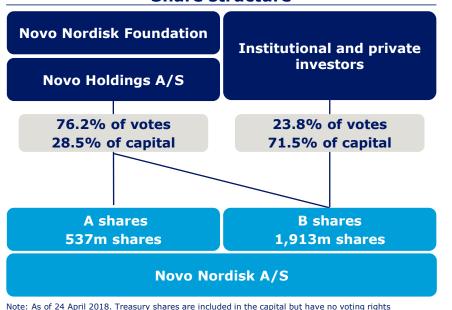
changing diabetes®

¹Q2 average is calculated as realised exchange rates from 1 April 2018 to 25 April 2018 + current spot rate applied from 25 April 2018 to 30 June 2018 ³FY 2018 average is calculated as realised exchange rates from 1 January 2018 to 25 April 2018 + spot rate applied from 25 April 2018 to 30 June 2018



Stable ownership structure

- secured through A and B-share structure



Share structure

The Novo Nordisk Foundation

- The Novo Nordisk Foundation is a self-governing institution that:
 - provides a stable basis for Novo Nordisk
 - supports scientific, humanitarian and social purposes
- All strategic and operational matters are governed by the board and management of Novo Nordisk
- Overlapping board memberships ensure that the Novo Nordisk Foundation and Novo Nordisk share vision and strategy



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Sustainability



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Sustainable business

The Novo Nordisk Way



We build on the purpose set by our founders and live by their values: The **Novo Nordisk Way** sets the direction and unites us around a common purpose in the pursuit of our aspirations: *Driving change to defeat diabetes and other serious chronic diseases*

The Triple Bottom Line Business Principle



The **Triple Bottom Line Principle**, anchored in the **Articles of Association**, guides how we do business responsibly and how we make decisions that consider the interests of stakeholders and the long-term interests of our shareholders





Novo Nordisk offers a healthy, engaging and inclusive workplace with development opportunities for employees

Employee health and safety and engagement Novo Nordisk is committed to building a are key focus areas for management diverse and inclusive organisation Management appointments¹ All managers Sr. Managers 90% sustainable ~42,700 FTE engagement score emplovees 61% 60% Men 59% 57% 85% 86% 11.0% 2.7 accidents employee with absence 41% 43% Women 39% 40% per million turnover working hours 14% 15% 2013 2017 2013 2017 2013 2017

Note: Full social statements to be found in Novo Nordisk Annual Report 2017

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 $^1\mbox{All}$ appointments to management positions, incl. internal promotions and external hires, ex. NNIT



Shaping and adapting to conditions in the business environment

Enhancing access to affordable, high quality insulin is a key priority



5 million people with diabetes treated at cost below USD 0.16 per day



6 product recalls inspections

Cities Changing Diabetes works to bend the curve on urban diabetes





103 million DKK donations to World Diabetes Foundation and Novo Nordisk Haemophilia Foundation

Note: Full social statements to be found in Novo Nordisk Annual Report 2017



• Map the challenge in cities across the world with 11 cities enrolled

 Share learnings and best practices on how to bend the diabetes curve, by preventing rise in obesity

- Drive action plans with local partners and experts to act as a catalyst for meaningful action
- Initiate new cross-sector partnerships, eq on climate and health





Novo Nordisk prioritises minimisation in use of non-depletable or scarce natural resources

