

Shaping the future management of obesity.

Zealand Pharma Obesity R&D Event

December 5th, 2023

Forward-looking statements

These presentation slides (including any accompanying oral presentation, question and answer session and any other document or materials distributed at or in connection with this presentation"), are provided on a confidential basis, are personal to the recipient and have been prepared by Zealand Pharma A/S (the "Company") for the sole use at a presentation concerning the Company and its products in development. This Presentation is confidential and is not for release, publication or distribution, in whole or in part, other than by, or with the prior written permission of, the Company. Any failure to comply with these restrictions may constitute a violation of applicable securities laws.

This Presentation does not constitute an offer or invitation or inducement to purchase or subscribe for any securities of the Company and should not be relied on in connection with a decision to purchase or subscribe for any such securities (including, without limitation any jurisdiction to whom or to which such offer or invitation is unlawful). This Presentation does not constitute a recommendation regarding any decision to sell or purchase securities in the Company nor does it give or purport to give legal, tax or financial advice. Any decision to purchase shares in the Company must be made on the basis of the purchaser's own judgement as to the merits of the Company and the suitability of the shares in the Company for their purposes, having taken all such professional or other advice as they consider necessary or appropriate in the circumstances.

This Presentation is the sole responsibility of the Company and is preliminary in nature, confidential and supplied to the recipients solely for information and may not without the consent of the Company be reproduced, disseminated, distributed or otherwise disclosed to any other person or published, in whole or in part, for any purpose. No reliance may be placed for any purpose whatsoever on this Presentation or the completeness or accuracy of this Presentation. No responsibility is accepted, and to the fullest extent permitted by law or regulation, no representation, warranty or other assurance is made or given, in either case, expressly or impliedly, by or on behalf of the Company or shareholders, directors, officers, partners, employees, agents, affiliates, representatives or advisors ("Affiliates") or any other person as to the accuracy or completeness of this Presentation or opinions contained in this Presentation. Accordingly, no such person, or any errors, omissions or misstatements made by any of them. No duty of care is owed or will be deemed to be owed to any person in relation to this Presentation.

Certain industry and market data contained in this Presentation has been obtained from third party sources. Third party industry publications, studies and surveys generally state that the data contained therein has been obtained from sources believed to be reliable, but that there is no guarantee of the accuracy or completeness of such data. While the Company believes that each of these publications, studies or surveys have been prepared by a reputable source, the Company has not independently verified the data contained therein. In addition, certain of the industry, scientific and market data contained in this Presentation may come from the Company's own internal research and estimates based on the knowledge and experience of its management in the market in which it operates. While the Company believes that such research and estimates are reasonable and reliable, they, and their underlying methodology and assumptions, have not been verified by any independent source for accuracy or completeness and are subject to change without notice. This Presentation is subject to updating, completion, revision, verification and amendment, and such information may change materially without notice. As a result, you are cautioned not to place any undue reliance on any of the industry or market data contained in this Presentation.

This Presentation may contain forward-looking statements, which relate, among other things, to the Company's proposed strategy, plans, financial performance and objectives. Forward-looking statements are sometimes identified by the use of terminology such as "believes", "expects", "may", "will", "could", "should" "should" "should" "shall", "risk", "intends", "estimates", "aims", "plans", "predicts", "continues", "assumes", "positions" or "anticipates" or the negatives thereof, other variations thereon or comparable terminology. By their very nature, such forward looking information requires the Company to make assumptions that may or may not materialize. Such forward-looking statements may be price sensitive and involve known and unknown risks, uncertainties and other important factors beyond the control of the Company that could cause the actual performance or achievements of the Company to be materially different from such forward-looking statements. Past performance of the Company cannot be relied upon as a guide to future performance. Accordingly, you should not rely on any forward-looking statements or any other statements in this Presentation is intended as a profit forecast or a profit estimate and no statement in this Presentation should be earnings per share for the current or future financial periods would necessarily match or exceed historical published earnings per share. As a result, you are cautioned not to place any undue reliance on such forward-looking statements. This Presentation contains certain financial information which is subject to rounding or approximation.

AN INVESTMENT IN THE COMPANY INVOLVES RISK. SEVERAL FACTORS COULD CAUSE THE ACTUAL RESULTS, PERFORMANCE OR ACHIEVEMENTS OF THE COMPANY TO BE MATERIALLY DIFFERENT FROM ANY FUTURE RESULTS, PERFORMANCE OR ACHIEVEMENTS THAT MAY BE PREDICTED OR IMPLIED BY STATEMENTS AND INFORMATION IN THIS PRESENTATION. SHOULD ONE OR MORE OF THESE RISKS OR UNCERTAINTIES MATERIALISE, OR SHOULD UNDERLYING ASSUMPTIONS PROVE INCORRECT, THE ACTUAL RESULTS OF THE COMPANY MAY VARY MATERIALLY FROM THOSE FORECASTED IN THIS PRESENTATION.

This Presentation has not been approved by an authorized person for the purposes of section 21 of the Financial Services and Markets Act 2000 ("FSMA"). This Presentation will only be made, supplied and directed at, investors who are: (a) in member states of the European Economic Area and who are "qualified investors" within the meaning of Article 2(e) of the Prospectus Regulation (EU) 2017/1129 as amended from time to time ("Prospectus Regulation"); and (b) persons in the United Kingdom who are qualified investors within the meaning of the Prospectus Regulation as it forms part of domestic UK law pursuant to the European Union (Withdrawal) Act 2018, who are: (i) persons having professional experience in matters relating to investments falling within the definition of "investment professionals" in Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the "Order"); (ii) high net worth entities falling within Articles 49(2)(a)-(d) of the Order; or (iii) other persons to whom it can otherwise lawfully be distributed (persons meeting such criteria are referred to herein as "Relevant Persons").

This Presentation is directed only at Relevant Persons and must not be acted on or relied on by anyone other than a Relevant Person. Any investment, investment activity or controlled activity to which this Presentation relates is available only to Relevant Persons. Persons of any other description should not view, rely or act upon this Presentation. If you have received this Presentation and you are not a Relevant Person, you must return this Presentation immediately to the Company.

This Presentation, or any copy of it, should not be distributed, published, reproduced or otherwise made available in whole or in part by recipients to any other person or in any other country, locality, state or other jurisdiction where such distribution, publication, availability or use may lead to a breach of any legal or regulatory requirement and, in particular this Presentation may not be taken or transmitted or distributed, directly or indirectly, in or into or from the United States of America (including its territories and possessions, any state of the United States and the district of Columbia), Australia, Canada, New Zealand, the Republic of South Africa, the Republic of Ireland, Japan, their territories or possessions or any other jurisdiction where such distribution would be unlawful (each a "Restricted Territory"). No securities of the Company have been or will be registered under the U.S. Securities Act of 1933, as amended ("Securities Act") or under the securities laws of any Restricted Territory. Accordingly, subject to certain exceptions, the Securities Act and may not be registered under the Securities of a resident of a resident of a Restricted Territory. Any Placing by the Company will not be registered under the Securities Act and may not be offered, sold, resold, transferred or delivered, directly or indirectly, in or into the United States of America except pursuant to an applicable exemption from, or in a transaction not subject to, registration.

By accepting this Presentation you agree to be bound by the foregoing limitations and restrictions and, in particular, will be taken to have represented, warranted and undertaken that: (i) you have read and agree to comply with the contents of this disclaimer; (ii) you are a Relevant Person and you will observe the foregoing provisions, limitations and conditions; and (iii) you have read and agree to comply with the contents of this disclaimer including, without limitation the obligation to keep this Presentation confidential and you will not forward this Presentation to any other person, or reproduce this Presentation, in whole or in part, for any purpose.

Agenda

2

3

5

6

December 5th, 2023, from 1.30–4.30 pm GMT

GLP-1=glucagon-like peptide-1; GLP-2=glucagon-like peptide-2; NASH=nonalcoholic steatohepatitis.

	Presenter(s)	Time
Welcome and introduction to speakers	Anna Krassowska	5 min
The obesity pandemic	Adam Steensberg	15 min
Targeting obesity and low-grade		
inflammation with GLP-1/GLP-2 receptor agonists – <i>dapiglutide</i>	Daniel Drucker David Kendall	40 min including Q&A
Break		20 min
Amylin: a next-generation weight-loss		
medication, representing an alternative	Louis Aronne	40 min
to GLP-1 receptor agonists – <i>petrelintide</i>	David Kendall	including Q&A
Targeting obesity and NASH with	Carel Le Roux	40 min
glucagon/GLP-1 receptor agonists – <i>survodutide</i>	David Kendall	including Q&A
Concluding remarks	Adam Steensberg	10 min



Today's Zealand Pharma speakers



Adam Steensberg

President and Chief Executive Officer



David Kendall

Chief Medical Officer and Head of Research & Development



Today's external speakers



Dr. Daniel Drucker

Professor of Medicine at the University of Toronto



Dr. Louis Aronne

Professor of Clinical Medicine at Weill Cornell Medicine



Dr. Carel Le Roux

Professor of Experimental Pathology at University College Dublin



By embracing this historic opportunity, and rising to the challenge together, we can address one of the biggest health crises of our time.



Our mission

We are committed to changing lives with next generation peptide therapeutics.



Our ambition

We strive to be the world's best peptide drug discovery and development company.

We believe in a shift from maximizing weight loss towards quality of weight loss and effects on comorbidities...





Segment characteristics and drivers

Payer-reimbursed segment (prescriber-driven)

Demand driven by health outcomes data

- Relative weight loss
- · Comorbidity risk reduction
- Safety
- · Tolerability

Self-pay segment (consumer-driven)

Demand driven by 'quality' and convenience

- · Desired weight loss
- Tolerability
- · Convenience and administration
- Patients' willingness-to-pay

Content developed by Zealand Pharma.

...and that success of future weight-loss medications will be determined by differentiation on multiple fronts





Examples of differentiation factors



Improved tolerability by addressing GI side effects

Unique non-incretin mechanisms

Offer greater convenience through dosing regimen and/or delivery method

Develop fixed or loose 'flexible-use' combinations for patient segments that need the highest weight loss

^aZealand Pharma clinical development pipeline.

Content developed by Zealand Pharma.

GCG=glucagon; GI=gastrointestinal; GIP=gastric inhibitory polypeptide; GLP-1=glucagon-like peptide-1; GLP-2=glucagon-like peptide-2.

Our research and development pipeline addresses unmet medical needs across several therapeutic areas





alnvestigational compounds whose safety and efficacy have not been evaluated or approved by the FDA or any other regulatory authority; ^bco-invented by Boehringer Ingelheim and Zealand: EUR €345 million outstanding potential development, regulatory and commercial milestones, including EUR €30 million upon Phase 3 initiation and high single to low double digit percentage royalties on global sales to Zealand; ^clicensed to Alexion: USD \$610 million potential development, regulatory and commercial milestones and high single to low double digits percentage royalties on net sales. Content developed by Zealand Pharma.

FDA=US Food and Drug Administration; GCGR=glucagon receptor; GIP=gastric inhibitory polypeptide; GLP-1R=glucagon-like peptide-1 receptor; GLP-2=glucagon-like peptide-2; GLP-2R=glucagon-like peptide-2 receptor; IBD=inflammatory bowel disease; NASH=nonalcoholic steatohepatitis; SC=subcutaneous; T1DM=type 1 diabetes mellitus.



Targeting obesity and low-grade inflammation with GLP-1/GLP-2 receptor agonists

Dapiglutide

December 5th, 2023



The discovery and development of glucagon-like peptides



Sources: Figure adapted from Drucker et al. J Clin Invest 2017;127(12):4217–4227, with permission from the American Society for Clinical Investigation conveyed through Copyright Clearance Center Inc.; 1. FDA NDA approval letter. Available at https://www.accessdata.fda.gov/drugsatfda_docs/appletter/2010/022341s000ltr.pdf, accessed November 2023; 2. Marso et al. N Engl J Med 2016;375(4):311–322; 3. FDA press release. Available at https://www.fda.gov/newsevents/press-announcements/fda-approves-new-drug-treatment-chronic-weight-management-first-2014, accessed November 2023; 4. Zealand Pharma press release. Available at https://www.globenewswire.com/newsrelease/2022/09/30/2525830/0/en/Zealand-Pharma-Announces-Positive-Results-from-Phase-3-Trial-of-Glepaglutide-in-Patients-with-Short-Bowel-Syndrome-EASE-1.html, accessed November 2023; 5. Novo Nordisk press release. Available at https://www.novonordisk.com/news-and-media/news-and-ir-materials/news-details.html?id=166301, accessed November 2023.

CVOT=cardiovascular outcome trial; GLP-1=glucagon-like peptide-1; GLP-1RA=glucagon-like peptide-1 receptor agonist; GLP-2=glucagon-like peptide-2; GLP-2RA=glucagon-like peptide-2 receptor agonist; SBS=short bowel syndrome; T2DM=type 2 diabetes mellitus.

GLP-1 reduces appetite, delays gastric emptying, and regulates glycemic control





Source: Figure adapted from Wang et al. Front Endocrinol (Lausanne) 2023;14:1085799, used under the Creative Commons Attribution (CC BY 4.0) license (https://creativecommons.org/licenses/by/4.0/). The figure has been reformatted. The publication is available at https://doi.org/10.3389/fendo.2023.1085799. Gl=gastrointestinal; GLP-1=glucagon-like peptide-1.

GLP-2 enhances intestinal repair and potentially has beneficial effects on other organs as well





Sources: 1. Drucker & Yusta. Annu Rev Physiol 2014;76:561–583; 2. Nuzzo et al. Neurobiol Dis 2019;121:296–304; 3. Fuchs et al. JCI Insight 2020;5(8):e136907; 4. Fuchs et al. Cell Mol Gastroenterol Hepatol 2023;16(5):847–856. Gl=gastrointestinal; GLP-2=glucagon-like peptide-2.

People with obesity have increased low-grade inflammation, which drives several related comorbidities



Excess fat storage can trigger low-grade systemic inflammation through reduced intestinal barrier integrity¹



Obesity-related low-grade inflammation can result in:



CVD as increased inflammation drives residual risk in people with CVD²



Liver disease due to abnormal accumulation of triglycerides in the liver³



due to excess circulating proinflammatory cytokines and changes in the integrity of the blood–brain barrier⁴

Sources: 1. Figure adapted from Vetrani et al. Nutrients 2022;14(10):2103, used under the Creative Commons Attribution (CC BY 4.0) license (https://creativecommons.org/licenses/by/4.0/). The figure has been reformatted. The publication is available at https://doi.org/10.3390/nu14102103; 2. Ridker et al. Lancet 2023;401(10384):1293–1301; 3. Luo & Lin. Immun Inflamm Dis 2021;9(1):59–73; 4. Salas-Venegas et al. Front Integr Neurosci 2022;16:798995. CVD=cardiovascular disease; LPS=lipopolysaccharides.



GLP-1 and GLP-2 reduce inflammation





Sources: 1. Figure adapted from Drucker. Cell Metab 2016;24(1):15–30; 2. Figure adapted from Drucker. Cell Metab 2018;27(4):740–756, with permission from Elsevier conveyed through Copyright Clearance Center Inc.; 3. Drucker & Yusta. Annu Rev Physiol 2014;76:561–583.

EEC=enteroendocrine cell; GLP-1=glucagon-like peptide-1; GLP-1R=glucagon-like peptide-1 receptor; GLP-2=glucagon-like peptide-2; IEL=intraepithelial lymphocyte; LPS=lipopolysaccharides; TLR=toll-like receptor.

GLP-2RA reduced intestinal permeability and inflammation in obese mice





Markers of inflammation, oxidative stress, and macrophage infiltration



*p<0.05 vs the vehicle group; n=6 per group; data presented are mean (SEM).

^aLPS significantly contributes to the development of obesity-related inflammatory liver diseases, such as NAFLD and NASH

Source: Figures adapted from Cani et al. Gut 2009;58(8):1091–1103, with permission from BMJ Publishing Group Ltd conveyed through Copyright Clearance Center Inc.

GLP-2=glucagon-like peptide-2; GLP-2RA=glucagon-like peptide-2 receptor agonist; IL-1 α =interleukin 1 alpha; IL-10=interleukin 10; iNOS=inducible nitric oxide synthase; LPS=lipopolysaccharides; MIP-1 α =macrophage inflammatory protein-1 alpha; mRNA=messenger ribonucleic acid; NAFLD=nonalcoholic fatty liver disease; NASH=nonalcoholic steatohepatitis; SEM=standard error of the mean; TLR4=toll-like receptor 4; TNF α =tumor necrosis factor alpha.

Contributory mechanisms for GLP-1/GLP-2 and effects on CV outcomes in people with T2DM and/or obesity



GLP-1



Blood pressure¹

Postprandial lipemia²



Body weight¹



Inflammation¹

) Heart rate¹



Cardioprotective effects³



Systemic and hepatic inflammation⁴

GLP-2



Blood flow to the GI tract⁵



Intestinal barrier function⁵

Sources: 1. Drucker. Cell Metab 2018;27(4):740–756; 2. Drucker. Cell Metab 2016;24(1):15–30; 3. Drucker et al. J Clin Invest 2017;127(12):4217–4227; 4. Kim et al. Hepatology 2022;75(6):1523–1538; 5. Drucker & Yusta. Annu Rev Physiol 2014;76:561–583.

CV=cardiovascular; GI=gastrointestinal; GLP-1=glucagon-like peptide-1; GLP-2=glucagon-like peptide-2; T2DM=type 2 diabetes mellitus.

GLP-2 action in the liver





Sources: 1. Fuchs et al. JCI Insight 2020;5(8):e136907; 2. Fuchs et al. Cell Mol Gastroenterol Hepatol 2023;16(5):847–856; 3. Drucker & Yusta. Annu Rev Physiol 2014;76:561–583; 4. Kim et al. Hepatology 2022;75(6):1523–1538. GLP-2=glucagon-like peptide-2.

GLP-1/GLP-2

Daniel Drucker

GLP-1R/GLP-2R dual agonists may reduce liver steatosis, inflammation, and fibrosis





p<0.001, *p<0.0001 vs the vehicle group.

Source: 1. Figure adapted from Kim et al. Hepatology 2022;75(6):1523–1538, with permission from John Wiley & Sons, Inc.; 2. Fuchs et al. Cell Mol Gastroenterol Hepatol 2023;16(5):847–856, used under the Creative Commons Attribution (CC BY 4.0) license (https://creativecommons.org/licenses/by/4.0/). The publication is available at https://doi.org/10.1016/j.jcmgh.2023.08.003.

GLP-1=glucagon-like peptide-1; GLP-1-Fc=glucagon-like peptide-1 Fc; GLP-1/2-Fc=glucagon-like peptide-1/2 Fc fusion; GLP-2=glucagon-like peptide-2; GLP-2-Fc=glucagon-like peptide-2 Fc; H&E=hematoxylin–eosin stain; NASH=nonalcoholic steatohepatitis; PSR=picrosirius red; SEM=standard error of the mean.

GLP-2 analog has shown neuroprotective effects in high-fat diet-fed mice





*p<0.05, **p<0.02 vs the vehicle group; n=6 per group. Studies were conducted in mouse brain tissue.

Source: Figures adapted from Nuzzo et al. Neurobiol Dis 2019;121:296-304, with permission from Elsevier conveyed through Copyright Clearance Center Inc.

GFAP=glial fibrillary acidic protein; GLP-2=glucagon-like peptide-2; IL-1β=interleukin 1 beta; IL-6=interleukin 6; IL-8=interleukin 8; iNOS=inducible nitric oxide synthase; NF-κB=nuclear factor kappa B; ROS=reactive oxygen species; SEM=standard error of the mean; STD=standard diet; TNFα=tumor necrosis factor alpha.

GLP-1R/GLP-2R dual agonist reduces body weight and improves body composition in DIO mice





**p<0.01 for MG-12 versus the vehicle.

Source: Figures adapted from Sae Won Kim et al. Dual agonism: two of us. Presentation at the 59th EASD Annual Meeting, October 2–6, 2023, Hamburg, Germany. DIO=diet-induced obese; GLP-1R=glucagon-like peptide-1 receptor; GLP-2R=glucagon-like peptide-2 receptor; HFD=high-fat diet; SEM=standard error of the mean.

Strong scientific rationale for GLP-1 and GLP-2 receptor agonists to reduce weight and low-grade inflammation



Obesity is associated with low-grade inflammation¹



Established that GLP-1 and GLP-2 receptor agonists can help reduce weight and low-grade inflammation^{2,3}



Data support the potential of GLP-1 and GLP-2 receptor agonists to address cardiovascular, liver, and brain disease⁴⁻⁹

Sources: 1. Calder et al. Br J Nutr 2011;106(Suppl 3):S5–S78; 2. Cani et al. Gut 2009;58(8):1091–1103; 3. Sae Won Kim et al. Dual agonism: two of us. Presentation at the 59th EASD Annual Meeting, October 2–6, 2023, Hamburg, Germany; 4. Drucker et al. J Clin Invest 2017;127(12):4217–4227; 5. Drucker. Cell Metab 2018;27(4):740–756; 6. Drucker. Cell Metab 2016;24(1):15–30; 7. Kim et al. Hepatology 2022;75(6):1523–1538; 8. Drucker & Yusta. Annu Rev Physiol 2014;76:561– 583; 9. Nuzzo et al. Neurobiol Dis 2019;121:296–304. GLP-1=glucagon-like peptide-1; GLP-2=glucagon-like peptide-2. Dapiglutide

David Kendall

Dapiglutide is a potential first-in-class GLP-1R/GLP-2R dual agonist





Sources: 1. Reiner et al. JPEN J Parenter Enteral Nutr 2022;46(5):1107–1118; 2. Data presented by Agersnap at the 82nd ADA Scientific Sessions, June 3–7, 2022, New Orleans, LA; 3. Wang et al. Front Endocrinol (Lausanne) 2023;14:1085799; 4. Drucker & Yusta. Annu Rev Physiol 2014;76:561-583; 5. Fuchs et al. Cell Mol Gastroenterol Hepatol 2023;16(5):847-856; 6. Kim et al. Hepatology 2022;75(6):1523-1538; 7. Nuzzo et al. Neurobiol Dis 2019;121:296-304. GI=gastrointestinal; GLP-1=glucagon-like peptide-1; GLP-1R=glucagon-like peptide-1 receptor; GLP-2=glucagon-like peptide-2; GLP-2R=glucagon-like peptide-2 receptor.

Dapiglutide showed dose-dependent mean weight loss of up to 4.3% over 4 weeks in healthy patients





Source: Figures adapted from data presented by Agersnap at the 82nd ADA Scientific Sessions, June 3–7, 2022, New Orleans, LA. AE=adverse event.

In H1 2024, results for dapiglutide are expected from the investigator-led DREAM trial



DREAM is evaluating the effects of dapiglutide on body weight, gut permeability, and inflammation¹



Sources: 1. ClinicalTrials.gov (NCT05788601), accessed November 2023; 2. Data presented by Agersnap at the 82nd ADA Scientific Sessions, June 3–7, 2022, New Orleans, LA. BMI=body mass index; MAD=multiple ascending dose.

In H2 2024, results for dapiglutide are expected from the 13-week Phase 1b dose-titration trial



The Phase 1b trial is evaluating higher doses of dapiglutide than the previous 4-week MAD trial and DREAM

፝፞፞፞ኯ፟ቚ፟፟፟ቑ፟ ቚ፟፟፟፟፟፟፟፟፟፟፟ቚ፟፟፟ቚ፟	Population	N=54, men and women aged 18–64 years BMI 27.0–39.9 kg/m ²
	Duration	13 weeks
	Dose strengths	Higher doses than the previous 4-week MAD trial and DREAM
	Endpoints	Primary endpoint: incidence of TEAEs Key secondary endpoints: pharmacokinetics endpoints related to dapiglutide exposure; absolute and percentage change in body weight from baseline to Day 92

Source: ClinicalTrials.gov (NCT06000891), accessed November 2023. BMI=body mass index; MAD=multiple ascending dose; TEAE=treatment-emergent adverse event.

Dapiglutide is a potential first-in-class GLP-1R/GLP-2R dual agonist targeting obesity and low-grade inflammation



 Weight loss
 – pursuing ≥20% weight loss

 MoA – potential first-in-class GLP-1R/GLP-2R dual agonist

Safety and tolerability – similar to other GLP-1RA-based weight-loss medications¹

Cardiovascular disease – potential cardioprotective benefits from GLP-1 agonism and additional anti-inflammatory effect from GLP-2 agonism²⁻⁶

Other comorbidities – evidence of the regenerative effects of GLP-2RAs and the potential to address organ damage associated with low-grade inflammation^{5,7,8}

Sources: 1. Data presented by Agersnap at the 82nd ADA Scientific Sessions, June 3–7, 2022, New Orleans, LA; 2. Drucker et al. J Clin Invest 2017;127(12):4217–4227; 3. Drucker. Cell Metab 2018;27(4):740–756; 4. Drucker. Cell Metab 2016;24(1):15–30; 5. Kim et al. Hepatology 2022;75(6):1523–1538; 6. Drucker & Yusta. Annu Rev Physiol 2014;76:561–583; 7. Fuchs et al. Cell Mol Gastroenterol Hepatol 2023;16(5):847–856 8. Nuzzo et al. Neurobiol Dis 2019;121:296–304. GLP-1=glucagon-like peptide-1; GLP-1R=glucagon-like peptide-1 receptor; GLP-1RA=glucagon-like peptide-1 receptor agonist; GLP-2R=glucagon-like peptide-2 receptor; GLP-2RA=glucagon-like peptide-2 receptor; GLP-2RA=glucagon-2 receptor; GLP-2RA=glucagon-2 receptor; GLP-2RA=glucagon-2 receptor; GLP-2RA=glucagon-2 receptor; GLP-2RA=glucagon-2 receptor; GLP-2RA=gluc



Questions?





This meeting recommences in 20 minutes at 2:50 pm



Amylin: a next-generation weight-loss medication; representing an alternative to GLP-1 receptor agonists

Petrelintide

December 5th, 2023

GLP-1RA-based medications are effective at reducing weight but also associated with tolerability issues



GLP-1RA-based medications are associated with GI side effects, including nausea and vomiting¹

GLP-1RA-based medications

- Originally developed for T2DM but have shown efficacy as weight-loss medications²
- For many people who are overweight or have obesity, the strong efficacy has outweighed the tolerability issues³...
- ... because there have been limited alternatives

Emerging modalities

 There is a significant unmet need for non-incretin mechanisms that offer improved tolerability for a better patient experience and high-quality weight loss

1. Wang et al. Front Endocrinol (Lausanne) 2023;14:1085799; 2. Drucker et al. J Clin Invest 2017;127(12):4217–4227; 3. Wilding et al. N Engl J Med 2021;384(11):989–1002. Gl=gastrointestinal; GLP-1RA=glucagon-like peptide-1 receptor agonist; T2DM=type 2 diabetes mellitus. Native amylin is a non-incretin peptide that increases satiety in contrast to GLP-1, which reduces appetite





^aMediated by the effect of amylin on the CNS.

Amylin

Louis Aronne

Sources: 1. Figure adapted from Mathiesen et al. Eur J Endocrinol 2022;186(6):R93–R111, with permission from Oxford University Press; 2. Roth et al. Proc Natl Acad Sci U S A 2008;105(20):7257–7262. CNS=central nervous system; GI=gastrointestinal; GLP-1=glucagon-like peptide-1.

The short-acting amylin analog, pramlintide, showed weight-loss potential in people with obesity





*p<0.05, **p<0.01 vs placebo.

Amylin

Louis Aronne

N-values are at baseline.

Mean body weight at baseline was ~106 kg.

Source: Figure adapted from Smith et al. Diabetes Care 2008;31(9):1816–1823, and material from this publication has been used with the permission of the American Diabetes Association. Copyright and all rights reserved. ITT=intention-to-treat; LOCF=last observation carried forward; SE=standard error; TID=three times daily. Amylin Louis Aronne Clinical data with cagrilintide demonstrate the weight-loss potential of long-acting amylin analogs





***p<0.001 vs placebo; †p<0.05 vs liraglutide 3.0 mg.

^aBMI ≥27 kg/m² with hypertension or dyslipidemia.

Treatment efficacy was evaluated using the trial product estimand.¹ N-values are at baseline.

Sources: 1. Figure adapted from Lau et al. Lancet 2021;398(10317):2160–2172, with permission from Elsevier conveyed through Copyright Clearance Center Inc.; 2. Wilding et al. N Engl J Med 2021;384(11):989–1002. BMI=body mass index; SE=standard error; T2DM=type 2 diabetes mellitus.
Louis Aronne

Amylin agonism has the potential to facilitate weight loss in people with and without T2DM





Treatment efficacy was evaluated using the trial product estimand.

Source: Figure adapted from Frias et al. Lancet 2023;402(10403):720–730, with permission from Elsevier conveyed through Copyright Clearance Center Inc. SE=standard error: T2DM=type 2 diabetes mellitus.

Louis Aronne

Amylin analogs have the potential for better tolerability compared with GLP-1RAs



203 203

Conceptually, **increasing satiety** could lead to a **better patient experience** during weight loss compared to reducing appetite

Clinical data for the short-acting amylin analog, pramlintide, demonstrated a benign tolerability profile comparable to placebo^{1,2}

Clinical data with the long-acting
 amylin analog, cagrilintide,
 demonstrated a more benign tolerability
 profile compared to liraglutide,
 including less vomiting³

Sources: 1. Smith et al. Diabetes Care 2008;31(9):1816–1823; 2. Smith et al. Am J Physiol Endocrinol Metab 2007;293(2):E620–E627; 3. Lau et al. Lancet 2021;398(10317):2160–2172. GLP-1RA=glucagon-like peptide-1 receptor agonist.

Louis Aronne

In the Phase 2 trial in people with obesity/overweight without T2DM, cagrilintide reduced CV risk markers





Source: Figures adapted from Lau et al. Lancet 2021;398(10317):2160-2172.

CV=cardiovascular; HDL=high-density lipoprotein; hsCRP=high-sensitivity C-reactive protein; LDL=low-density lipoprotein; T2DM=type 2 diabetes mellitus; VLDL=very low-density lipoprotein.

Louis Aronne

In the Phase 2 trial in people with T2DM, cagrilintide also reduced CV risk markers





Sources; 1. Figures adapted from Frias et al. Lancet 2023;402(10403):720–730; 2. Frias et al. Oral presentation (53-OR) at ADA 83rd Scientific Sessions, June 23–26, 2023, San Diego, CA. CV=cardiovascular; HDL=high-density lipoprotein; hsCRP=high-sensitivity C-reactive protein; LDL=low-density lipoprotein; T2DM=type 2 diabetes mellitus; VLDL=very low-density lipoprotein.

Louis Aronne

Data suggest that amylin agonism may facilitate fat mass loss and relative preservation of lean mass



Change in body weight in rats



subcutaneous infusion with a vehicle or amylin

Change in body composition in rats



*p<0.05 vs the vehicle group; n=7–8 per group.

Source: Figures adapted from Mack et al. Am J Physiol Regul Integr Comp Physiol 2007;293(5):R1855–R1863. SE=standard error.

Amylin – Louis Aronne

This fat-specific weight loss has been demonstrated in a number of pre-clinical studies





*p<0.05 vs the vehicle group; n=7-8 per group.

Source: Figures adapted from Roth et al. Int J Obes (Lond) 2008;32(8):1201–1210, with permission from Springer Nature conveyed through Copyright Clearance Center Inc. DIO=diet-induced obese; SE=standard error.

Amylin –

Louis Aronne

Amylin analogs hold potential as future stand-alone weight-loss medications





Sources: 1. Lau et al. Lancet 2021;398(10317):2160–2172; 2. Wilding et al. N Engl J Med 2021;384(11):989–1002; 3. Frias et al. Lancet 2023;402(10403):720–730; 4. Smith et al. Diabetes Care 2008;31(9):1816–1823; 5. Smith et al. Am J Physiol Endocrinol Metab 2007;293(2):E620–E627.

CVD=cardiovascular disease; GLP-1RA=glucagon-like peptide-1 receptor agonist; MoA=mechanism of action.

Petrelintide is a long-acting, potential best-in-class amylin analog designed with stability at neutral pH



Petrelintide (ZP8396) is a 36-amino-acid acylated peptide, based on the peptide sequence of human amylin

David Kendall

Petrelintide



Long-acting amylin analog (half-life of 10 days)¹ due to acylation, suitable for **once-weekly** administration

Chemical and physical stability at neutral pH, **minimizing fibrillation** and allowing for **co-formulation** with other peptides²

Potent agonistic effects on amylin and calcitonin receptors³

Sources: 1. Olsen et al. Poster 92-LB. Presented at ADA 83rd Scientific Sessions, June 23–26, 2023, San Diego, CA; 2. Skarbaliene et al. Poster 1406-P. Presented at ADA 82nd Scientific Sessions, June 3–7, 2022, New Orleans, LA; 3. Eriksson et al. Presentation at ObesityWeek, November 1–4, 2022, San Diego, CA.

Petrelintide | David Kendall

A single subcutaneous dose of petrelintide 2.4 mg resulted in average weight loss of 4.2% at Day 7





Source: Figure adapted from Olsen et al. Poster 92-LB. Presented at ADA 83rd Scientific Sessions, June 23–26, 2023, San Diego, CA. SAD=single ascending-dose.

Petrelintide – David Kendall

Six, once-weekly, low doses of petrelintide resulted in average weight loss above 5%





Source: Figure adapted from Olsen et al. Poster presented at ObesityWeek, October 14–17, 2023, Dallas, TX. MAD=multiple ascending dose.

In Part 1 of the MAD trial, petrelintide was well-tolerated with no serious or severe TEAEs and no withdrawals



TEAEs in Part 1 of the Phase 1b MAD trial with petrelintide

Number of participants (events)	Placebo (n=6)	Petrelintide 0.6 mg (n=7)	Petrelintide 1.2 mg (n=7)
Total AEs	5 (28)	6 (23)	7 (29)
Mild	5 (24)	6 (23)	7 (29)
Moderate	3 (4)	0	1 (2)
Severe	0	0	0
Serious	0	0	0
Metabolism and nutrition disorders	1 (1)	6 (9)	6 (8)
GI disorders	3 (7)	2 (6)	5 (9)

• Nausea occurred in three participants on petrelintide, with one also reporting vomiting; no other participants reported vomiting

No injection-site reactions were reported, and no participants developed anti-drug antibodies

Source: Table adapted from Olsen et al. Poster presented at ObesityWeek, October 14–17, 2023, Dallas, TX. AE=adverse event; GI=gastrointestinal; MAD=multiple ascending dose; TEAE=treatment-emergent adverse event.

Petrelintide

David Kendall

Results from Part 2 of the trial, exploring higher doses of petrelintide over 16 weeks, are expected in H1 2024





Petrelintide

David Kendall

Petrelintide significantly reduced fat mass while preserving lean mass in DIO rats

Unpublished data





*p<0.05, ***p<0.001 vs vehicle.

Source: Figures adapted from Data on file.

BID=twice daily; DIO=diet-induced obese; Q2D=every 2 days; Q4D=every 4 days; SEM=standard error of the mean.

Petrelintide

H David Kendall

Petrelintide is a potential best-in-class amylin analog for GLP-1-like weight loss with better tolerability



Weight loss – potential for ~15% reduction in body weight as monotherapy, with high-quality weight loss¹⁻⁴ **MoA** – mechanism reduces food intake by restoring leptin sensitivity and increasing satiety⁵ **Safety and tolerability** – potential for better tolerability vs GLP-1RAs^{1,2,6} **Cardiovascular disease** – potential to reduce CVD risk (e.g., through effects on blood pressure, heart rate, lipids, and hsCRP)^{2,7}

Sources: 1. Olsen et al. Poster presented at ObesityWeek, October 14–17, 2023, Dallas, TX; 2. Lau et al. Lancet. 2021;398(10317):2160–2172; 3. Wilding et al. N Engl J Med 2021;384(11):989–1002; 4. Data on file; 5. Roth et al. Proc Natl Acad Sci U S A 2008;105(20):7257–7262; 6. Olsen et al. Poster 92-LB. Presented at ADA 83rd Scientific Sessions, June 23–26, 2023, San Diego, CA; 7. Frias et al. Lancet 2023;402(10403):720–730. CVD=cardiovascular disease; GLP-1=glucagon-like peptide-1; GLP-1RA=glucagon-like peptide-1 receptor agonist; hsCRP=high-sensitivity C-reactive protein; MoA=mechanism of action.



Questions?



Targeting obesity and NASH with glucagon/GLP-1 receptor agonists

Survodutide

December 5th, 2023

Survodutide - Carel Le Roux



Considering obesity as a neurological disease



Obesity is a set of diseases

Our focus is not on 'weight loss' but 'health gain'

Source: Painting from Joseph Wright of Derby (1790).

Carel Le Roux

Oxyntomodulin represents the scientific foundation for the investigation of survodutide





Oxyntomodulin (OM)

- A hormone with dual agonism at GCG and GLP-1 receptors that reduces body weight by increasing energy expenditure and regulating appetite¹
- Clinical application is limited due to a short half-life²

Survodutide is a 29-amino-acid peptide derived from the endogenous hormones GCG and GLP-1³

Dual activation of receptors³

In human plasma assays, survodutide activates the human GCGR and GLP-1R with potencies of 8.3 nM and 1.0 nM, respectively

The extended half-life of survodutide is achieved by:³

- Integration of a **glycine–serine linker containing a C18 di-acid**, which mediates albumin binding and reduces renal clearance
- Integration of a synthetic amino acid (position 2), which provides resistance to DPP-4 proteolytic cleavage

Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization. Sources: 1. Wynne et al. Int J Obes (Lond) 2006;30(12):1729–1736; 2. Schjoldager et al. Eur J Clin Invest 1988;18(5):499–503; 3. Zimmermann et al. Mol Metab 2022;66:101633. DPP-4=dipeptidyl peptidase 4; GCG=glucagon; GCGR=glucagon receptor; GLP-1=glucagon-like peptide-1; GLP-1R=glucagon-like peptide-1 receptor; OM=oxyntomodulin. Survodutide Carel Le Roux

Survodutide activates GCGR and GLP-1R, which are critical in controlling metabolic functions







Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization.

Sources: 1. Pégorier et al. Biochem J 1989;264(1):93–100; 2. Cherrington. Diabetes 1999;48(5):1198–1214; 3. Del Prato et al. Obes Rev 2022;23(2):e13372; 4. Flint et al. J Clin Invest 1998;101(3):515–520; 5. Tan et al. Diabetes. 2013;62(4):1131–1138; 6. Celga et al. Diabetes 2014;63(11):3711–3720.

GCG=glucagon; GCGR=glucagon receptor; GI=gastrointestinal; GLP-1=glucagon-like peptide-1; GLP-1R=glucagon-like peptide-1 receptor.

Survodutide Carel Le Roux

Agonism of the GCGR by survodutide in mouse hepatocytes is potentially relevant in humans





mRNA sequence analysis from mouse hepatocytes suggests treatment with increasing doses of survodutide:



Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization.

Source: Figure adapted from Zimmermann et al. Mol Metab 2022;66:101633, used under the Creative Commons Attribution (CC BY 4.0) license (https://creativecommons.org/licenses/by/4.0/). The figure has been reformatted. The publication is available at https://doi.org/10.1016/j.molmet.2022.101633

GCGR=glucagon receptor; mRNA=messenger ribonucleic acid; NASH=nonalcoholic steatohepatitis.

Survodutide - Carel Le Roux

In a 16-week Phase 2 trial in T2DM, survodutide effectively reduced HbA1c and body weight



Boehringer Ingelheim



^aThe semaglutide arm was open-label.

Body weight at baseline was 93.0–100.1 kg and HbA1c at baseline was 7.9–8.2%.

Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization. Sources: Figures adapted from Rosenstock. Presentation at ObesityWeek, November 1–4, 2022, San Diego, CA.

BIW=twice-weekly; GLP-1R=glucagon-like peptide-1 receptor; HbA1c=hemoglobin A1c; QW=once-weekly; SE=standard error; T2DM=type 2 diabetes mellitus.

Survodutide Carel Le Roux

In a 46-week Phase 2 trial in obesity, survodutide dose-dependently reduced body weight by up to 18.7%



Boehringer Ingelheim



Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization.

Source: Figure adapted from Le Roux et al. Oral presentation (51-OR) at ADA 83rd Scientific Sessions, June 23–26, 2023, San Diego, CA.

Analysis based on dose reached at the end of treatment regardless of the dose assigned at randomization.

CI=confidence interval; QW=once-weekly.

Carel Le Roux

Treatment with survodutide in the Phase 2 obesity trial showed no unexpected safety findings





- As expected, GI disorders were the most frequent drug-related AEs
- Most treatment discontinuations occurred during the rapid dose escalation phase (up to Week 20) and may be mitigated with more gradual dose-escalation

TEAE, n (%)ª	Survodutide 0.6 mg (n=77)	Survodutide 2.4 mg (n=78)	Survodutide 3.6 mg (n=77)	Survodutide 4.8 mg (n=77)	Survodutide total (n=309)	Placebo (n=77)
Any TEAE	70 (90.9)	70 (89.7)	71 (92.2)	70 (90.9)	281 (90.9)	58 (75.3)
Nausea ^b	26 (33.8)	51 (65.4)	48 (62.3)	49 (63.6)	174 (56.3)	15 (19.5)
Vomiting ^b	7 (9.1)	23 (29.5)	26 (33.8)	27 (35.1)	83 (26.9)	4 (5.2)
Diarrhea ^b	14 (18.2)	22 (28.2)	18 (23.4)	15 (19.5)	69 (22.3)	8 (10.4)
Constipation ^b	9 (11.7)	17 (21.8)	19 (24.7)	20 (26.0)	65 (21.0)	4 (5.2)
Leading to treatment discontinuation	15 (19.5)	20 (25.6)	19 (24.7)	22 (28.6)	76 (24.6)	3 (3.9)
GI-related	5 (6.5)	13 (16.7)	13 (16.9)	20 (26.0)	51 (16.5)	1 (1.3)
Serious	1 (1.3)	2 (2.6)	6 (7.8)	4 (5.2)	13 (4.2)	5 (6.5)
Investigator defined, drug-related TEAE	47 (61.0)	66 (84.6)	62 (80.5)	62 (80.5)	237 (76.7)	29 (37.7)
Serious, drug-related TEAE	0 (0.0)	0 (0.0)	2 (2.6)	0 (0.0)	2 (0.6)	0 (0.0)

^aBased on the treated set and presented according to planned treatment; ^bTEAEs listed according to preferred term and occurred in ≥15% patients in any treatment arm.

Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization.

Source: Table adapted from Le Roux et al. Oral presentation (51-OR) at ADA 83rd Scientific Sessions, San Diego, June 23-26, 2023.

AE=adverse event: GI=gastrointestinal: TEAE=treatment-emergent adverse event.

Carel Le Roux

Survodutide reduced blood pressure by up to 8.6 mmHg (systolic) and up to 4.8 mmHg (diastolic) at Week 46



Boehringer Ingelheim



Mean blood pressure at baseline across cohorts: 122.6-127.5 mmHg for systolic blood pressure; 80.5-82.4 mmHg for diastolic blood pressure.

Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization.

Source: Figures adapted from Le Roux. Presentation at the 59th EASD Annual Meeting, October 2–6, 2023, Hamburg, Germany.

CI=confidence interval; QW=once-weekly.

The Phase 3 program with survodutide in obesity, SYNCHRONIZE[™], has been initiated





	Inclusion criteria	Study design	Primary endpoint
SYNCHRONIZE TM -1 ¹ Efficacy and safety in patients with obesity without T2DM	 HbA1c <6.5% (no history of diabetes) BMI ≥30 or BMI ≥27 with comorbidities^a 	 N=600 1:1:1 ratio (3.6 mg, 6.0 mg, or placebo) Trial duration: 76 weeks 	 Percentage change in body weight from baseline to Week 76 Achievement of body weight reduction ≥5% from baseline to Week 76
SYNCHRONIZE TM -2 ² Efficacy and safety in patients with obesity and T2DM	 HbA1c ≥6.5% and <10% BMI ≥27 T2DM managed with diet and exercise alone or with stable pharmacological treatment 	 N=600 1:1:1 ratio (3.6 mg, 6.0 mg or placebo) Trial duration: 76 weeks 	 Percentage change in body weight from baseline to Week 76 Achievement of body weight reduction ≥5% from baseline to Week 76
SYNCHRONIZE TM -CVOT ³ Long-term CV safety in patients with obesity and established CVD/CKD or risk factors for CVD	 BMI ≥27 with CVD and/or at least two weight-related risk factors for CVD, or BMI ≥30 with CVD/CKD and/or at least two weight-related factors for CVD 	 N=4,935 1:1:1 ratio (3.6 mg, 6.0 mg or placebo) Trial duration: up to 114 weeks 	 Time to first occurrence of any of five major adverse cardiac events (5P-MACE) to demonstrate non- inferiority

^aComorbidities comprise dyslipidemia, hypertension, obstructive sleep apnea, and others.

Carel Le Roux

Inclusion criteria for all three trials include age ≥18 years. 5P-MACE includes cardiovascular death, non-fatal stroke, non-fatal myocardial infarction, ischemia-related coronary revascularization or heart failure. Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization.

Sources: 1. SYNCHRONIZE-1. ClinicalTrials.gov (NCT06066515), accessed November 2023; 2. SYNCHRONIZE-2. ClinicalTrials.gov (NCT06066528), accessed November 2023; 3. SYNCHRONIZE-CVOT. ClinicalTrials.gov (NCT06077864), accessed November 2023.

BMI=body mass index; CKD=chronic kidney disease; CV=cardiovascular; CVD=cardiovascular disease; CVOT=cardiovascular outcomes trial; HbA1c=hemoglobin A1c; T2DM=type 2 diabetes mellitus.

Survodutide - Carel Le Roux

There is a significant overlap between obesity and liver disease





Obesity is associated with severe comorbidities, for which there are significant unmet medical needs



Estimates of overlap of comorbidities are not available in literature; approximation in figure is based on individual prevalence estimates.

Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization.

Sources: 1. Quek et al. Lancet Gastroenterol Hepatol 2023;8(1):20–30; 2. Vinciguerra et al. Acta Diabetol 2013;50(3):443–449; 3. Pantalone et al. BMJ Open 2017;7(11):e017583; 4. Schienkiewitz et al. BMC Public Health 2012;12:658; 5. Arinsoy et al. J Ren Nutr 2016;26(6):373–379; 6. Yim & Yoo. Clin Exp Pediatr 2021;64(10):511–518.

ASCVD=atherosclerotic cardiovascular disease; CKD=chronic kidney disease; COPD=chronic obstructive pulmonary disease; CVD=cardiovascular disease; NAFLD=nonalcoholic fatty liver disease; NASH=nonalcoholic steatohepatitis; T2DM=type 2 diabetes mellitus.

Survodutide – David Kendall

Phase 2 results from the NASH trial with survodutide are expected in H1 2024







Survodutide was co-invented by Boehringer Ingelheim and Zealand Pharma. Boehringer Ingelheim is responsible for clinical development and commercialization.

Source: ClinicalTrials.gov (NCT04771273), accessed November 2023.

BMI=body mass index; LFC=liver fat content; NAS=NAFLD activity score; NASH=nonalcoholic steatohepatitis; QW=once-weekly.

Survodutide – David Kendall

Survodutide holds potential as a leading GLP-1containing weight-loss medication in the 2030s





Sources: 1. Le Roux et al. Oral presentation (51-OR) at ADA 83rd Scientific Sessions, June 23–26, 2023, San Diego, CA; 2. Rosenstock. Presentation at ObesityWeek, November 1–4, 2022, San Diego, CA; 3. Zimmermann et al. Mol Metab 2022;66:101633; 4. Wilding et al. N Engl J Med 2021;384(11):989–1002; 5. O'Neil et al. Lancet 2018;392(10148):637–649; 6. Frias et al. Lancet 2018;392(10160):2180–2193; 7. Nauck et al. Diabetes Care 2016;39(2):231–241; 8. Le Roux. Presentation at the 59th EASD Annual Meeting, October 2–6, 2023, Hamburg, Germany; 9. Pégorier et al. Biochem J 1989;264(1):93–100; 10. Cherrington. Diabetes 1999;48(5):1198–1214. GCGR=glucagon-like peptide-1; GLP-1R=glucagon-like peptide-1 receptor; GLP-1RA=glucagon-like peptide-1 receptor agonist; MoA=mechanism of action; NASH=nonalcoholic steatohepatitis.



Questions?

We are starting to develop the keys that could help address the greatest healthcare challenge of our time





Sources: 1. World Health Organization (WHO). Fact sheet. Obesity and overweight. 9 June 2021. https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight, accessed December 2023; 2. World Health Organization (WHO). Fact sheet. Obesity. 9 June 2021. https://www.who.int/news-room/facts-on-obesity, accessed December 2023.



Multiple catalysts across the obesity pipeline in 2024

H1 2024

Dapiglutide Topline results from DREAM trial H2 2024

Dapiglutide Topline results from 13-week dose-titration trial

Petrelintide Topline results from MAD Part 2

Petrelintide Initiation of Phase 2b trial

Survodutide Topline results from Phase 2 trial in NASH

MAD=multiple ascending dose; NASH=nonalcoholic steatohepatitis.



Thank you for attending