



DIABETES UPDATE CALL

October 4, 2018

Lilly

AGENDA



OPENING REMARKS

Enrique Conterno, Senior Vice President, President Lilly Diabetes and Lilly USA

INTRODUCTION OF LY3298176

Ruth Gimeno, Vice President Diabetes and Metabolic Research

LY3298176 PHASE 2 DATA AND PHASE 3 DEVELOPMENT PLAN

Brad Woodward, Incretins Platform Team Leader

QUESTION AND ANSWER SESSION

SAFE HARBOR PROVISION



This presentation contains forward-looking statements that are based on management's current expectations, but actual results may differ materially due to various factors. The company's results may be affected by factors including, but not limited to, the risks and uncertainties in pharmaceutical research and development; competitive developments; regulatory actions; litigation and investigations; business development transactions; economic conditions; and changes in laws and regulations, including health care reform.

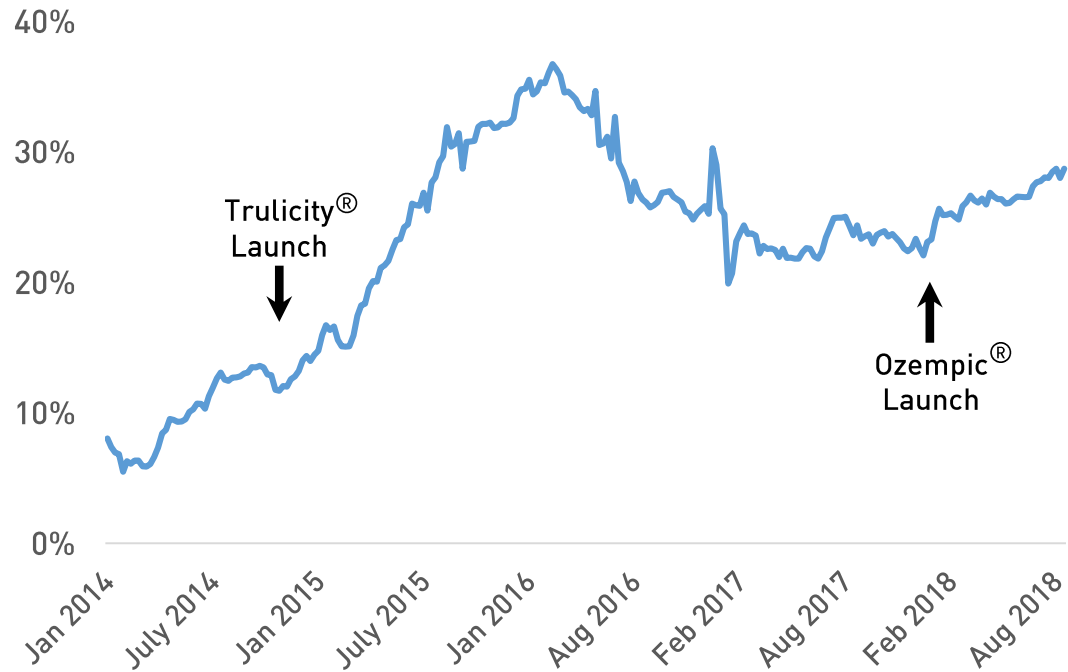
For additional information about the factors that affect the company's business, please see the company's latest Forms 10-K and 10-Q filed with the Securities and Exchange Commission.

The company undertakes no duty to update forward-looking statements.

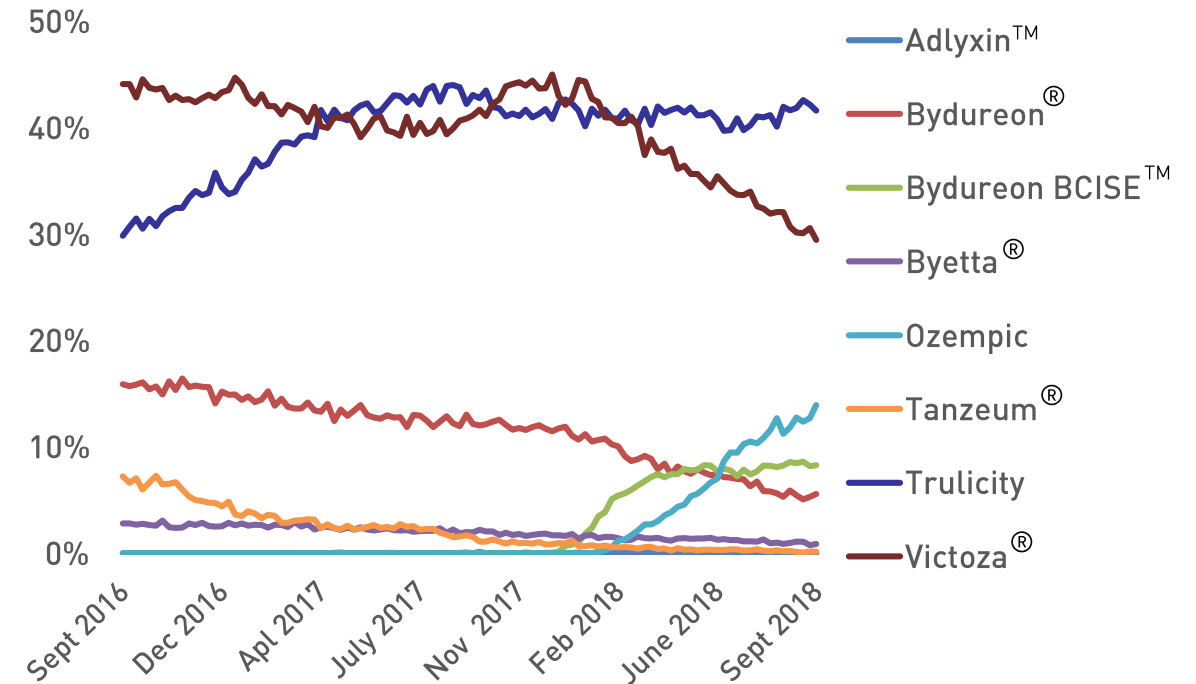
U.S. GLP-1 MARKET GROWTH EXPECTED TO CONTINUE



U.S. GLP-1 Market Growth
(4 week TRx YoY % Growth)



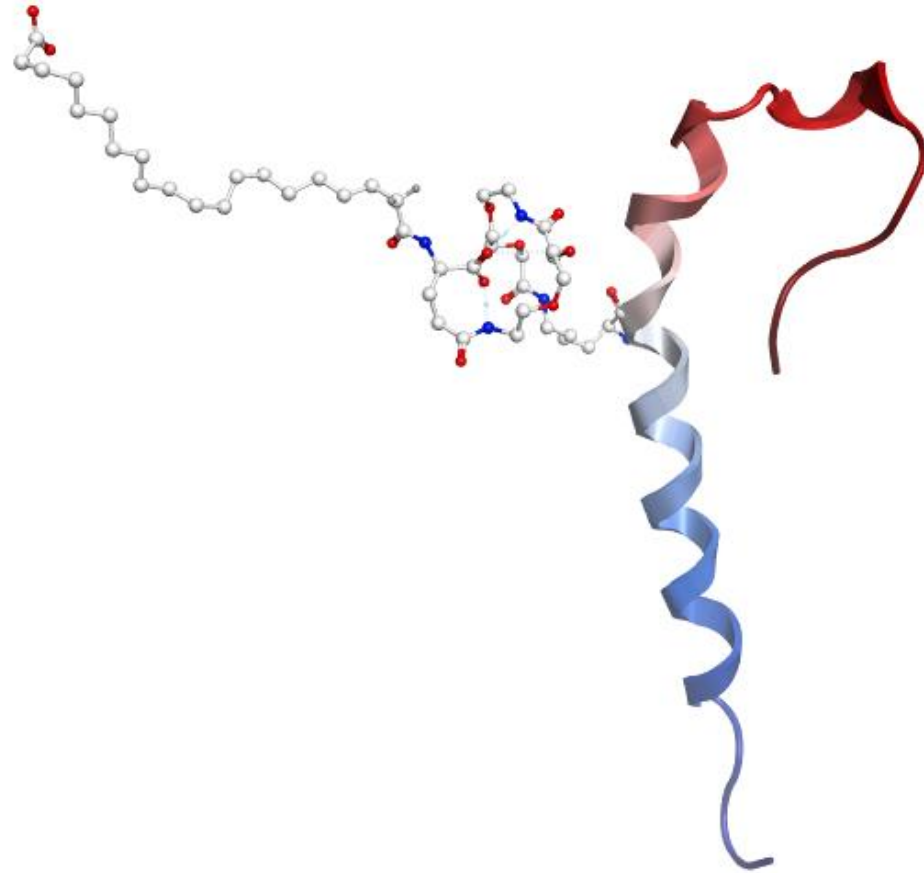
U.S. New Therapy Starts SOM



THE MOLECULE



LY3298176



Molecular Weight: 4.8 kDa

39 amino acid linear peptide conjugated to a C20 fatty diacid moiety via a linker connected to the lysine residue at position 20

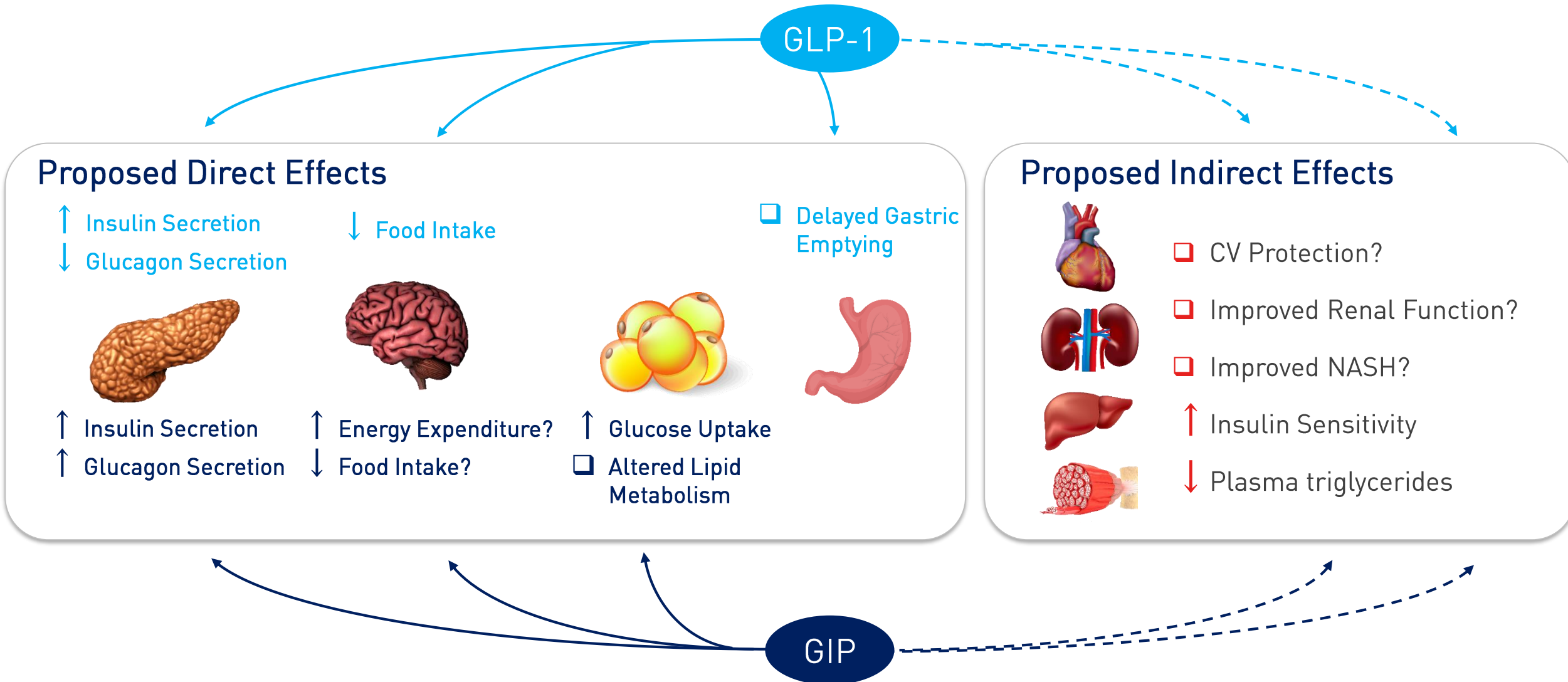
Native GLP peptide sequence; modified to bind and activate both the GLP and GLP-1 receptors

Equipotent to native GLP and less potent than native GLP-1

Once-weekly subcutaneous injection dosing



COMBINING GIP & GLP-1 → NEW PHARMACOLOGY




THE LANCET

Efficacy and safety of LY3298176, a novel dual GIP and GLP-1 receptor agonist, in patients with type 2 diabetes: a randomised, placebo-controlled and active comparator-controlled phase 2 trial

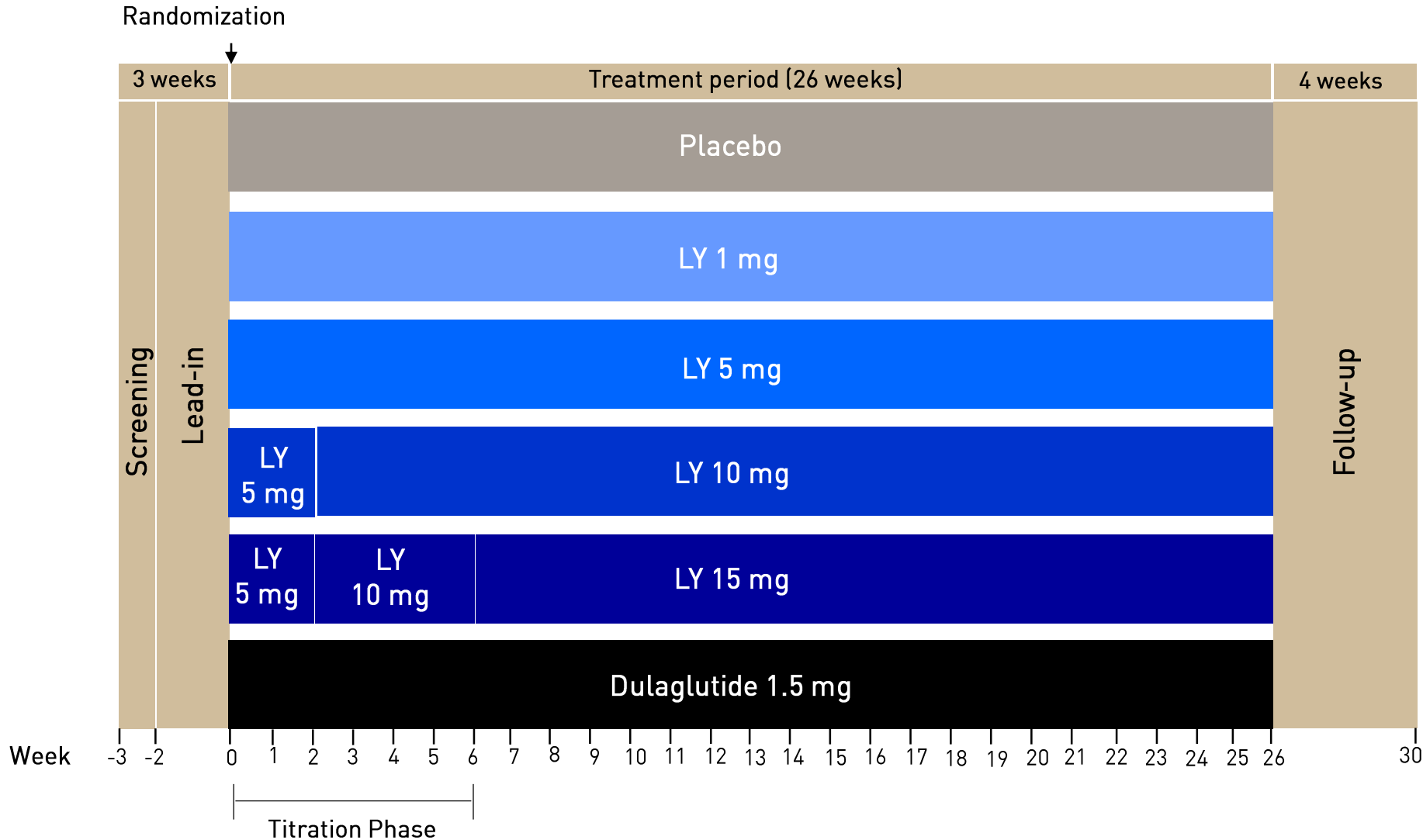
Juan Pablo Frias, Michael A Nauck, Joanna Van, Mark E Kutner, Xuwei Cui, Charles Benson, Shweta Urva, Ruth E Gimeno, Zvonko Milicevic, Deborah Robins, Axel Haupt

MOLECULAR METABOLISM

LY3298176, A Novel Dual GIP And GLP-1 Receptor Agonist For The Treatment Of Type 2 Diabetes Mellitus: From Discovery To Clinical Proof Of Concept

Tamer Coskun MD, PhD ¹, Kyle W. Sloop PhD ¹, Corina Loghin MD ¹, Jorge Alsina-Fernandez PhD ¹, Shweta Urva PhD ¹, Krister B. Bokvist PhD ¹, Xuwei Cui PhD ¹, Daniel A. Briere MA ¹, Over Cabrera PhD ¹, William C. Roell PhD ¹, Uma Kuchibhotla PhD ¹, Julie S. Moyers PhD ¹, Charles T. Benson MD ¹, Ruth E. Gimeno PhD ¹, David A. D'Alessio MD ², Axel Haupt MD ¹ 

LY3298176 PHASE 2B 6-MONTH STUDY DESIGN



Study objectives:

- Change in HbA1c At 26 weeks
- Change in body weight at 26 weeks
- Safety and tolerability

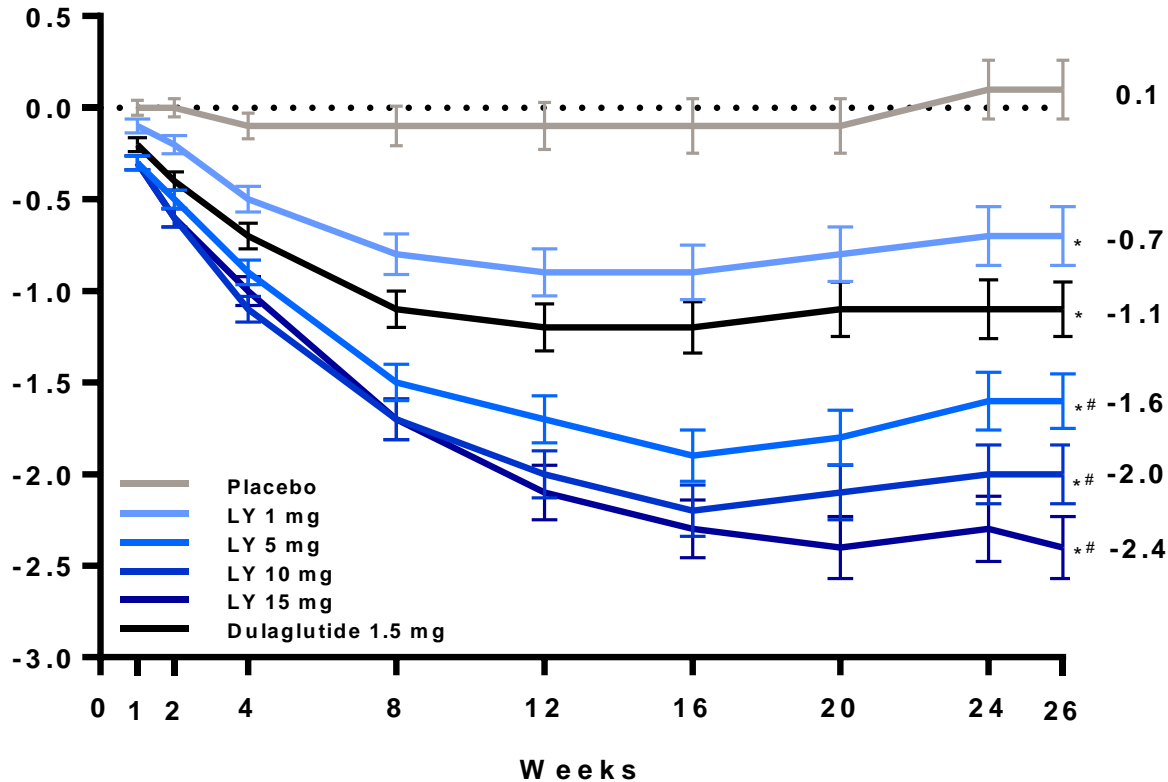
Inclusion criteria:

- T2DM
- HbA1c $\geq 7\%$ to $\leq 10.5\%$
- Diet and exercise alone or on a stable dose of metformin

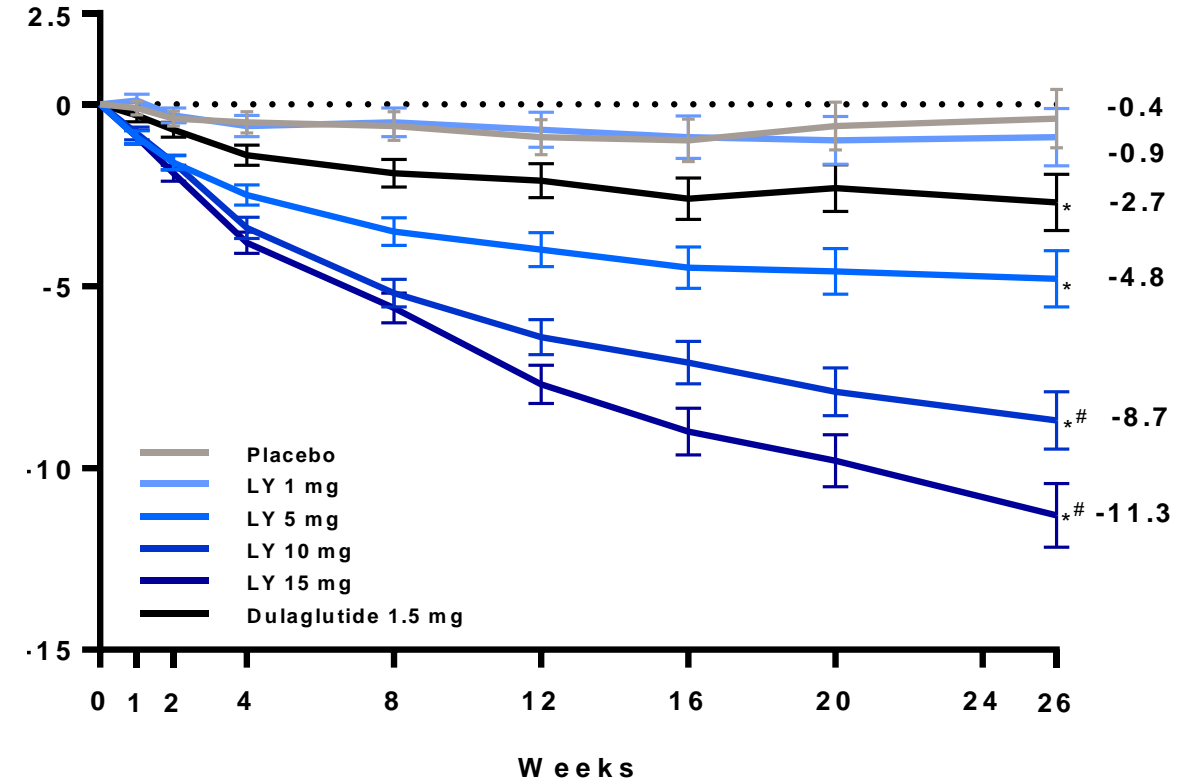
A1C & WEIGHT REDUCTIONS



HbA1c (%)



Weight Loss (Kg)



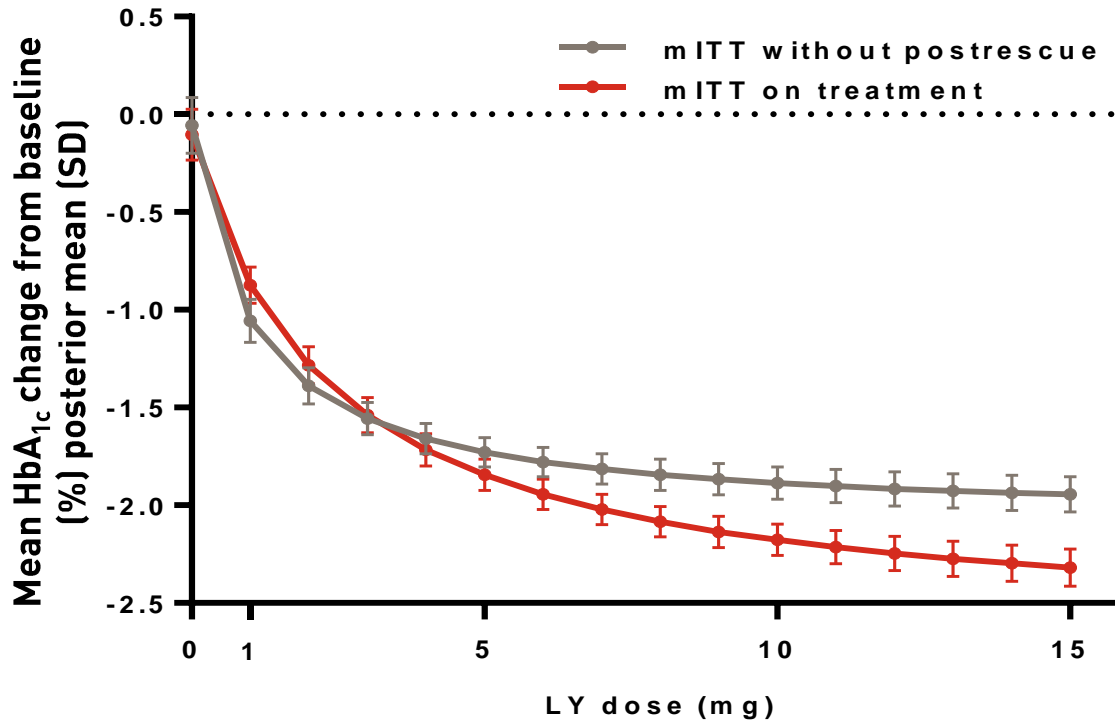
Data presented are LS mean \pm SE. MMRM on treatment analysis. *, #p<.05 vs placebo and vs. dulaglutide 1.5 mg, respectively.

Trial Description: 26 week randomized trial; 1mg, 5mg, 10mg: 2 week titration, 15mg: 6 week titration, dulaglutide 1.5mg
Baseline Characteristics: Mean age 57, weight 91.5 kg, BMI 32.6, A1c 8.1%, 90% on metformin

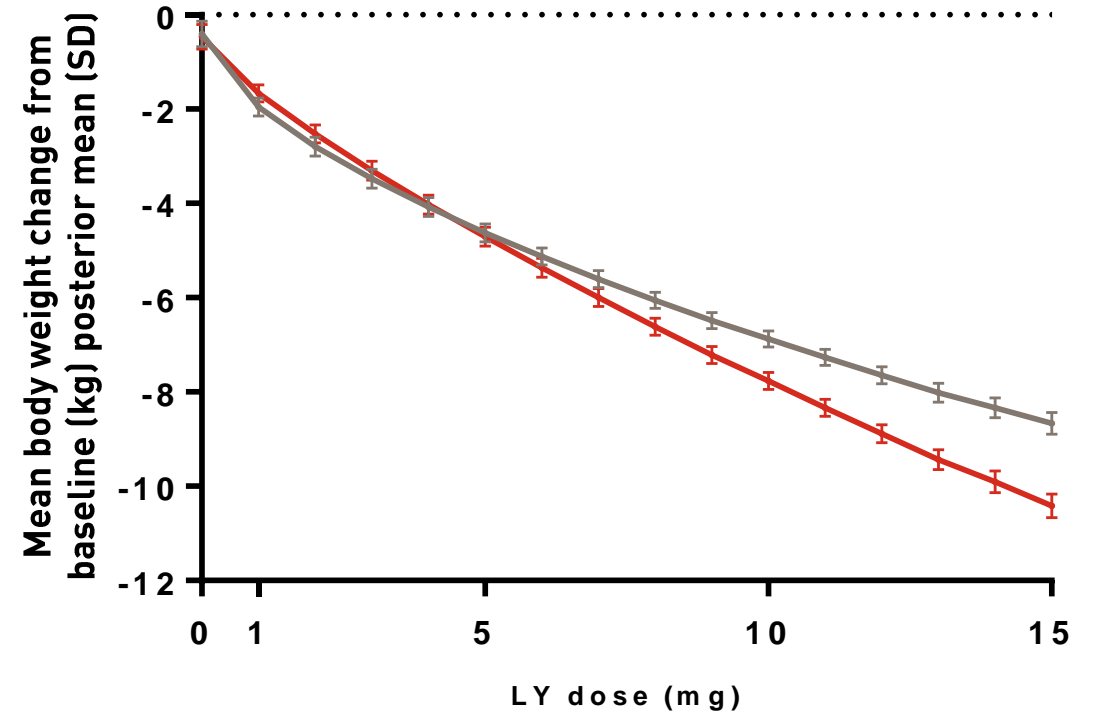
BAYESIAN DOSE RESPONSE AT 26 WEEKS



HbA_{1c} (%)



Weight Loss (Kg)

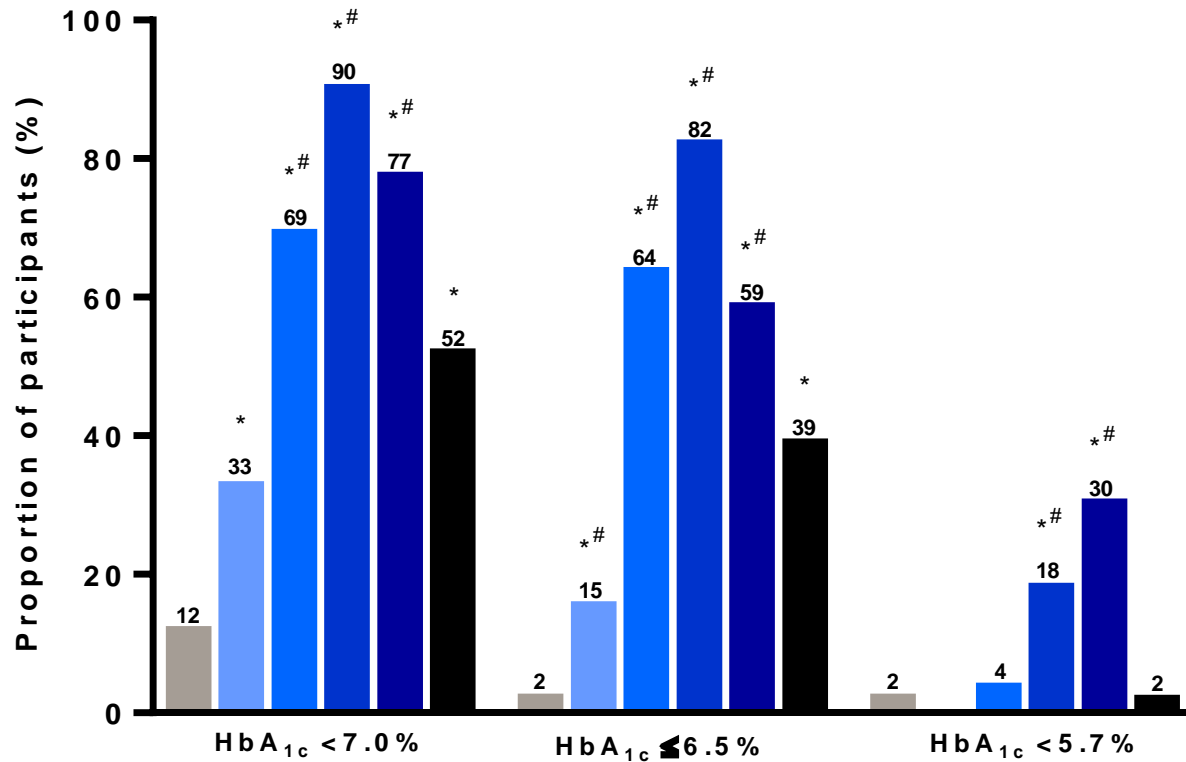


Bayesian dose response model with interpolated dose levels

PROPORTION OF PATIENTS ACHIEVING A1C AND WEIGHT TARGETS AT WEEK 26

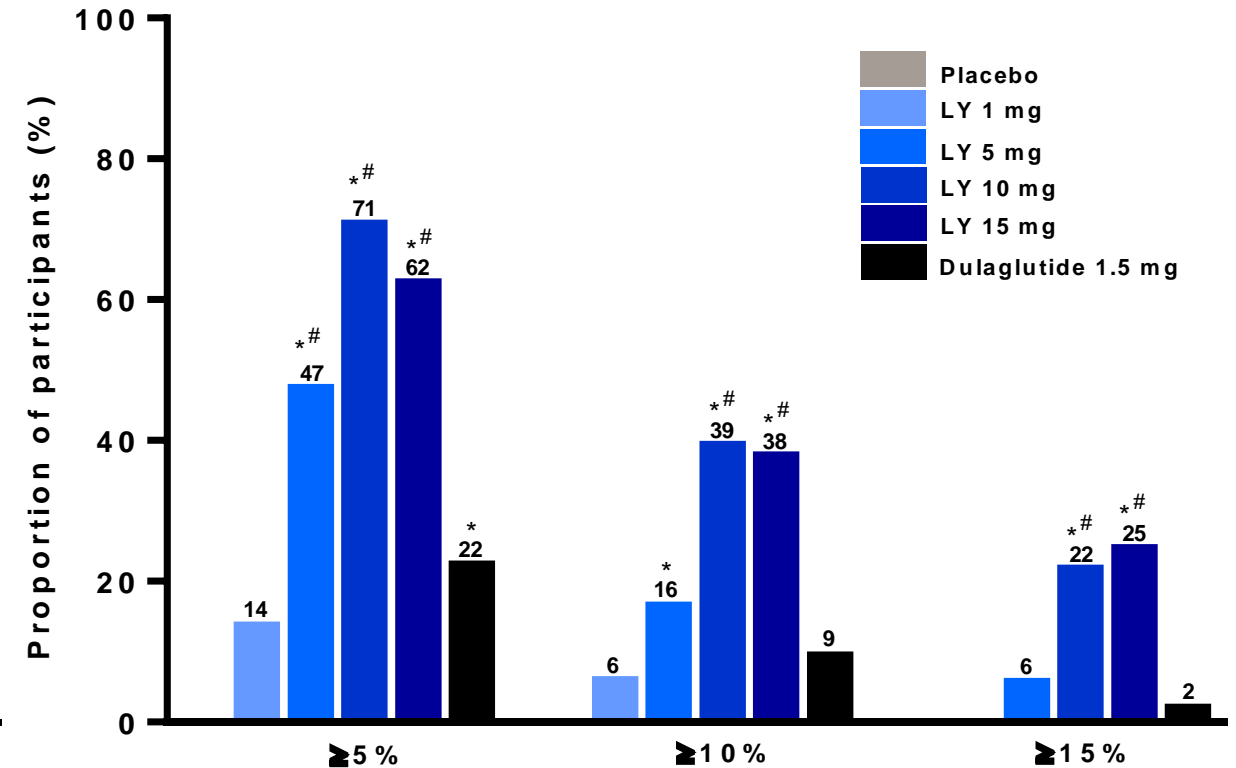


HbA1c (%) Targets



30% of 15 mg dose patients achieve $< 5.7\%$ A1c, a mark of normal glucose level

Weight Loss (%) Targets



25% of 15 mg dose patients achieve $> 15\%$ body weight reduction,

logistic regression using LOCF analysis. *,#p<0.05 vs placebo and dulaglutide 1.5 mg, respectively.

SAFETY AND TOLERABILITY SUMMARY



	LY 5mg	LY 10mg	LY 15mg	Dula 1.5mg
Adverse Events (AE) (%)	72.7	78.4	84.9	74.1
Serious AEs (%)	1.8	5.9	3.8	5.6
Discontinued Treatment due to AE (%)	9.1	5.9	24.5	11.1
Nausea (%)	20.0	21.6	39.6	29.6
Diarrhea (%)	23.6	23.5	32.1	16.7
Vomiting (%)	7.3	15.7	26.4	9.3
Hypoglycemia* (%)	7.3 / 1.8	9.8 / 5.9	7.5 / 5.7	3.7 / 3.7
Pancreatitis (n)	2	0	0	0
Cholecystitis (n)	0	1	0	1

* Hypoglycemia (≤ 70 mg/dL) reported as total / documented symptomatic. There were no reports of severe hypoglycemia.

^a study identifier NCT03311724

LY3298176

- Most common AEs were gastrointestinal (nausea, vomiting, diarrhea); Majority were mild to moderate and transient.
- Treatment discontinuations in the higher dose groups primarily occurred during the titration phase.
- A separate study^a evaluated slower, step-wise titration, enabling phase 3 design. Discontinuation due to AE was <5% (including 15mg) over the 12 week study period.
- Treatment-emergent ADA in LY3298176-treated patients (titers generally low, no PK/PD correlation).
- Heart rate and blood pressure effects comparable to dulaglutide.

LY3298176 PHASE 3 T2DM CLINICAL PROGRAM



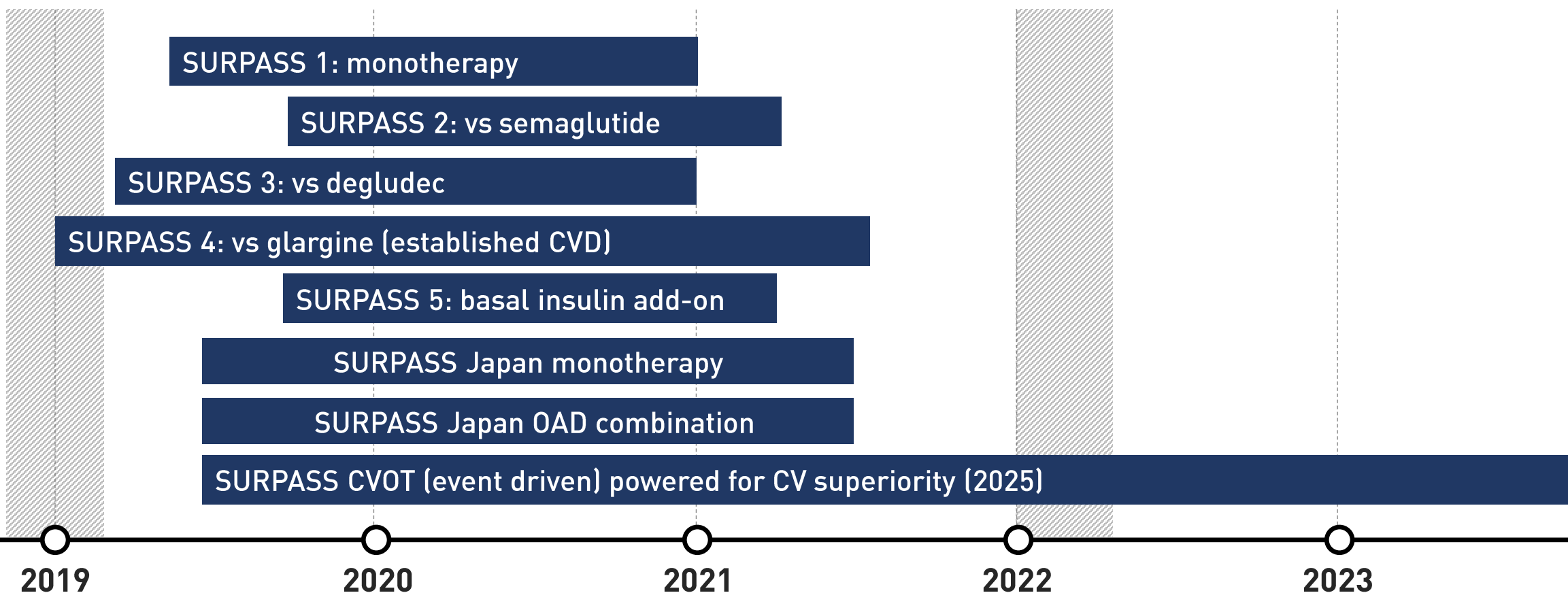
late 2018 / early 2019

SURPASS PROGRAM INITIATION



2022

POTENTIAL GLOBAL SUBMISSIONS



SUMMARY



LY3298176

Dual GIP/GLP-1 Receptor Agonist

Next generation once-weekly **dual incretin** designed to strengthen Lilly's leadership in the first injectable space.

What We Aim to Do:



Launch first with multi-year lead in new class of GIP and GLP-1 receptor dual agonists



Exceed expectations for glycemic control and weight reduction



Replicate Trulicity's injection experience



Deliver meaningful CV benefit



Target Phase 3 start for late 2018/early 2019



Lillen