



Second Quarter 2017 Financial Results

August 8, 2017



Agenda

- Tom Hughes – 2Q 2017 Highlights
- Dennis Kim - ZFGN-1061 Clinical Results and Preclinical Data
- Patty Allen - Financials
- Tom Hughes – Conclusion
- Q&A

Disclaimers

Forward Looking Statements

These slides and the accompanying oral presentation contain forward-looking statements and information. The use of words such as “may,” “might,” “will,” “should,” “expect,” “plan,” “anticipate,” “believe,” “estimate,” “project,” “intend,” “future,” “potential,” or “continue,” and other similar expressions are intended to identify forward looking statements. For example, all statements we make regarding the initiation, timing, progress and results of our preclinical and clinical studies and our research and development programs, our ability to advance product candidates into, and successfully complete, clinical studies, and the timing or likelihood of regulatory filings and approvals, and our expected cash, cash equivalents and marketable securities at year end are forward looking. All forward-looking statements are based on estimates and assumptions by our management that, although we believe to be reasonable, are inherently uncertain. All forward-looking statements are subject to risks and uncertainties that may cause actual results to differ materially from those that we expected. These statements are also subject to a number of material risks and uncertainties that are described in our most recent Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission. Any forward-looking statement speaks only as of the date on which it was made. We undertake no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by law.



2Q17 Highlights

Tom Hughes, Ph.D., President and Chief Executive Officer

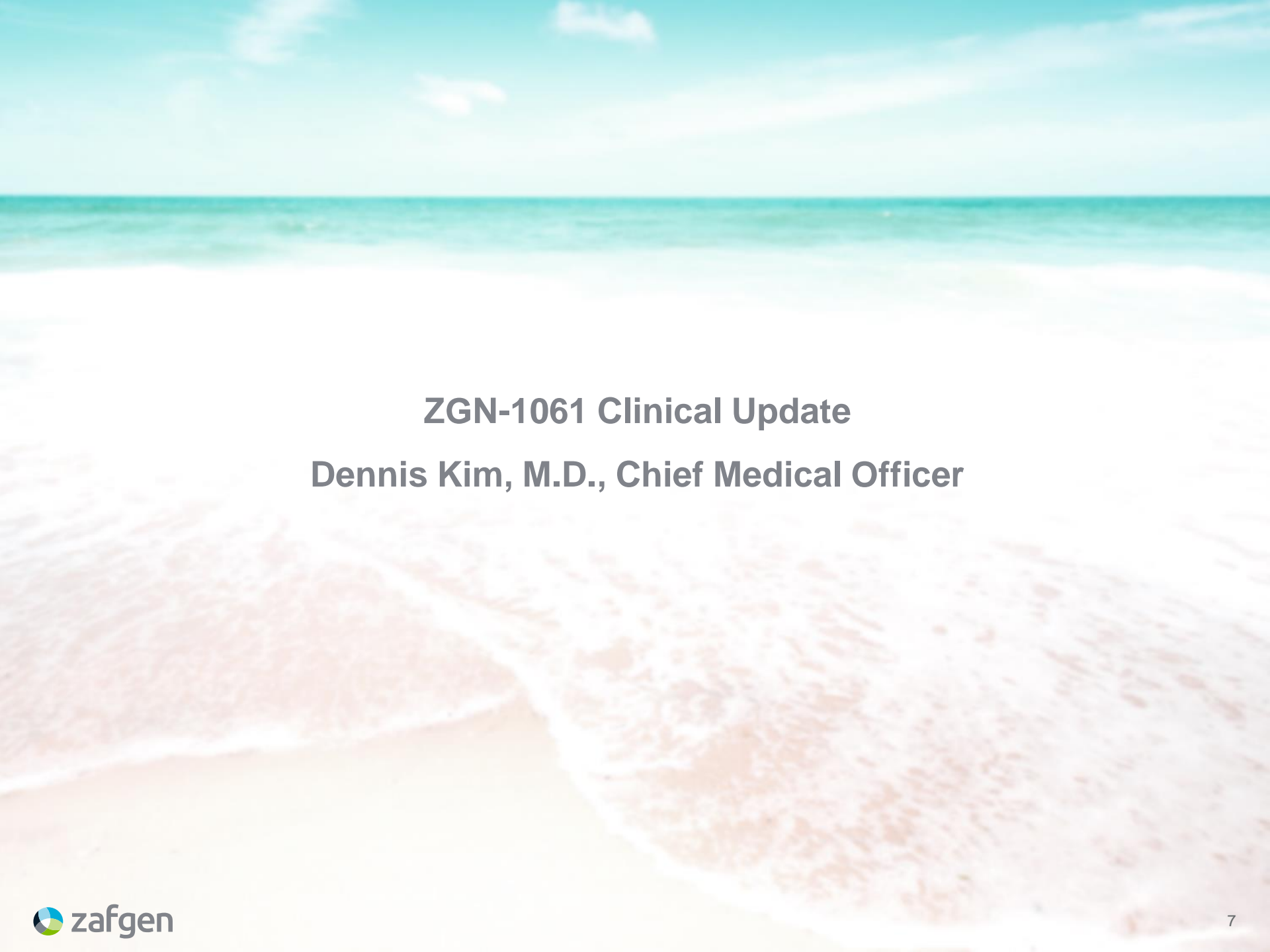
Recent Data Highlights Potential of ZGN-1061

- Phase 1 clinical trial showed that it was well-tolerated and safe
- Pharmacokinetic and target engagement profile met our prospectively established criteria
- Weight change supportive of drug effect
- Metabolic parameter changes consistent with MetAP2 inhibitor effects
- Differentiated profile supports development into later-stage development

On track to initiate Phase 2 clinical trial in type 2 diabetes in 3Q 2017

Novel Portfolio Providing Multiple Development Programs Focused on Metabolic Diseases

	Early Discovery	Preclinical Development	Phase 1	Phase 2	Rights
ZGN-1061	<p>Initial focus on type 2 diabetes</p> <ul style="list-style-type: none"> • Profiling targeted towards TD2M in the setting of obesity • Emphasis on validating clinical safety and leveraging unique mechanistic fit with T2D 				Worldwide
New molecules designed to target specific tissues/organ systems	<p>Rare and severe forms of obesity</p> <ul style="list-style-type: none"> • Injectable compounds focused on hunger reduction / body weight 				Worldwide
	<p>Liver directed compounds</p> <ul style="list-style-type: none"> • Oral MetAP2i for NASH, T2D, Alcoholic Liver Disease 				Worldwide
Discovery and Pathway Exploration	<p>New targets, new chemical approaches</p> <ul style="list-style-type: none"> • Approaches providing additional opportunities in diseases otherwise addressable with MetAP2i 				Worldwide



ZGN-1061 Clinical Update
Dennis Kim, M.D., Chief Medical Officer

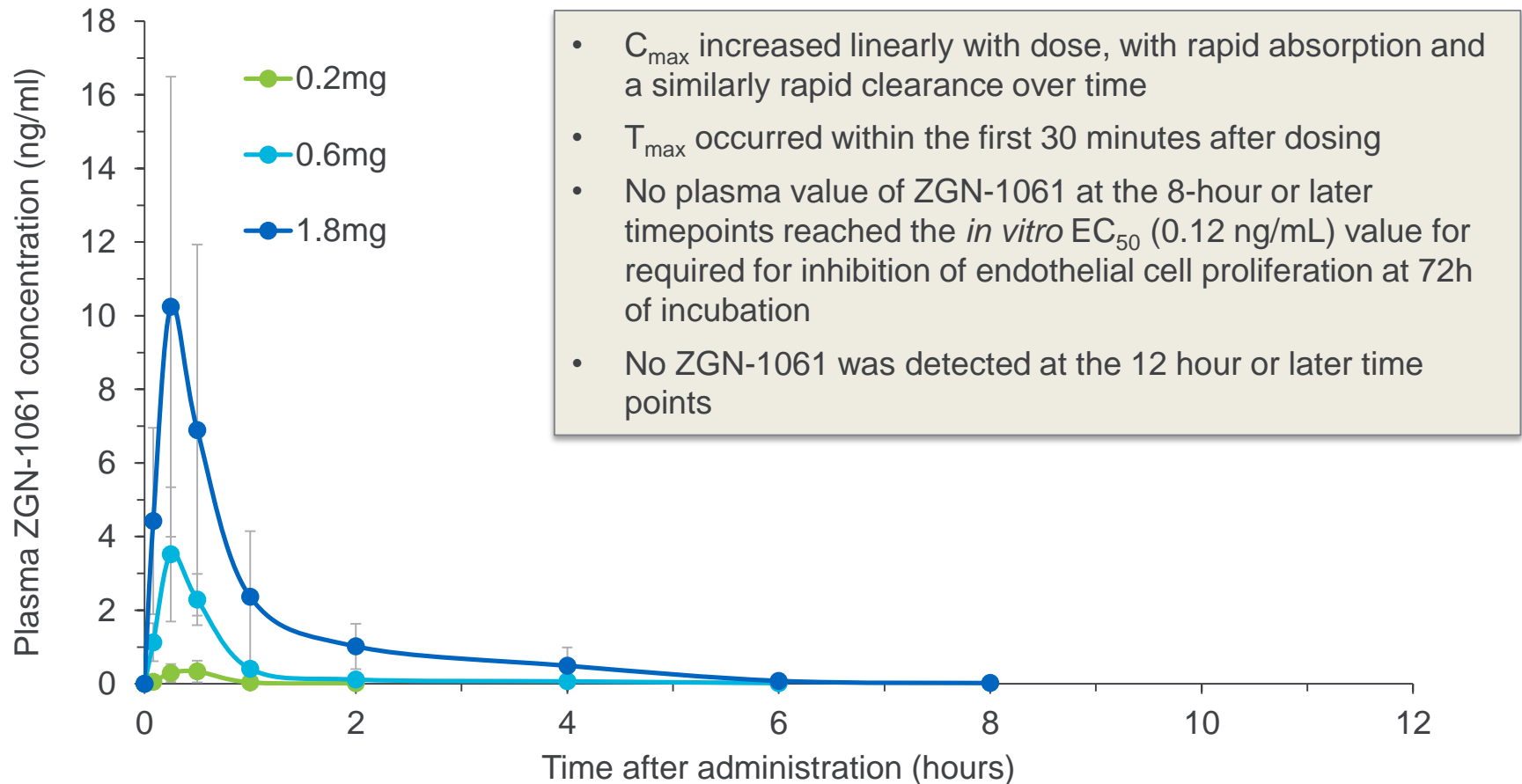
ZAF-1061-101 Clinical Trial Design and Demographics

ZAF-1061-101	Single Ascending Dose (SAD)	Multiple Ascending Dose (MAD)
Patient population	Healthy	Healthy, obese
N	39	29
Demographics	90% male; average BMI of 26	76% male; average BMI of 33
Dosing cohorts	0.2, 0.6, 1.2, 2.4, 3.6, 4.8 mg	0.2, 0.6, 1.8 mg
Dosing schedule	Single dose	Twice-weekly dosing for 28 days (8 injections)
Randomization	3:1 (active/placebo)	3:1 (active/placebo)
In-patient treatment	Domiciled days -1 through 4	Domiciled for the majority of the trial for closer safety monitoring: <ul style="list-style-type: none"> • No exercise allowed • Controlled food intake, including meal challenges

ZAF-1061-101 MAD Phase: Safety Summary

- Safe and well-tolerated
 - No serious adverse events (SAEs), no severe adverse events (AEs)
 - No AEs leading to early withdrawal from the clinical trial
 - All AEs were of mild intensity in the MAD phase except one (toothache)
 - Most common side effects were mild gastrointestinal issues (comparable between ZGN-1061 relative to placebo), headache and procedural related irritation
 - No sleep disturbance
- Reassuring thrombosis-relevant data
 - No venous thromboembolisms (VTEs)
 - No D-dimer elevations indicative of the presence of VTEs
 - No meaningful elevations in mean D-dimer concentrations across the dosing groups compared to baseline or placebo
 - No changes in standard coagulation laboratory values

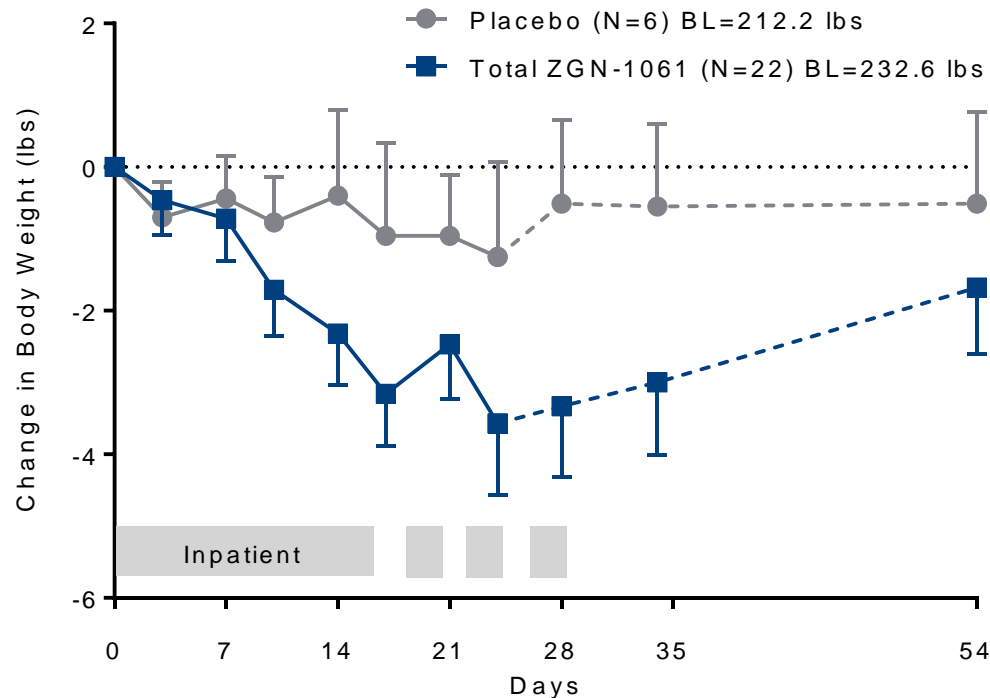
ZGN-1061 Pharmacokinetic Profile Meets Prospectively Established Criteria



- C_{max} increased linearly with dose, with rapid absorption and a similarly rapid clearance over time
- T_{max} occurred within the first 30 minutes after dosing
- No plasma value of ZGN-1061 at the 8-hour or later timepoints reached the *in vitro* EC_{50} (0.12 ng/mL) value for required for inhibition of endothelial cell proliferation at 72h of incubation
- No ZGN-1061 was detected at the 12 hour or later time points

Values are mean ± SD

Body Weight Loss Was Steady and Progressive During ZGN-1061 Treatment with Rebound Post-treatment, Supporting a Drug Effect



Dashed lines indicate washout period during which no treatments were administered.

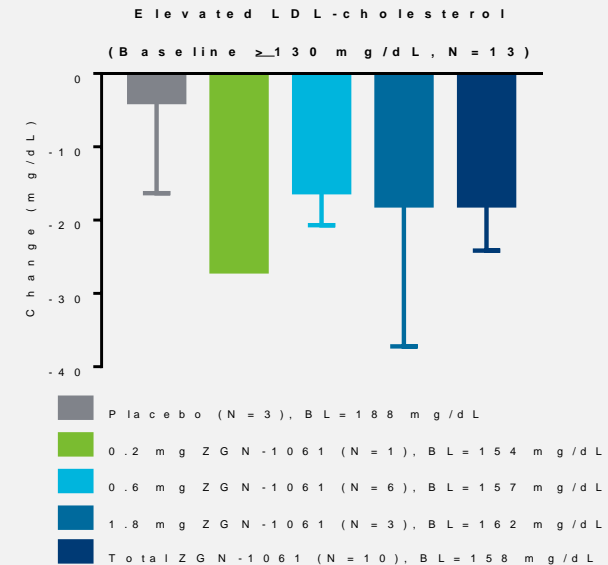
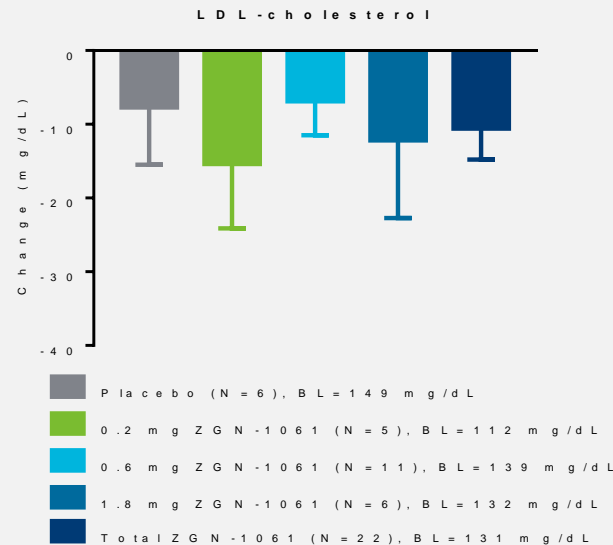
- Following discontinuation of treatment, ZGN-1061-treated patients on average experienced weight regain. This is supportive of a drug effect to lower body weight.
- Longer dosing is expected to drive continued weight loss as seen for belorانب

Trends for Improvement Across Multiple Metabolic Measures Supportive of Drug Activity

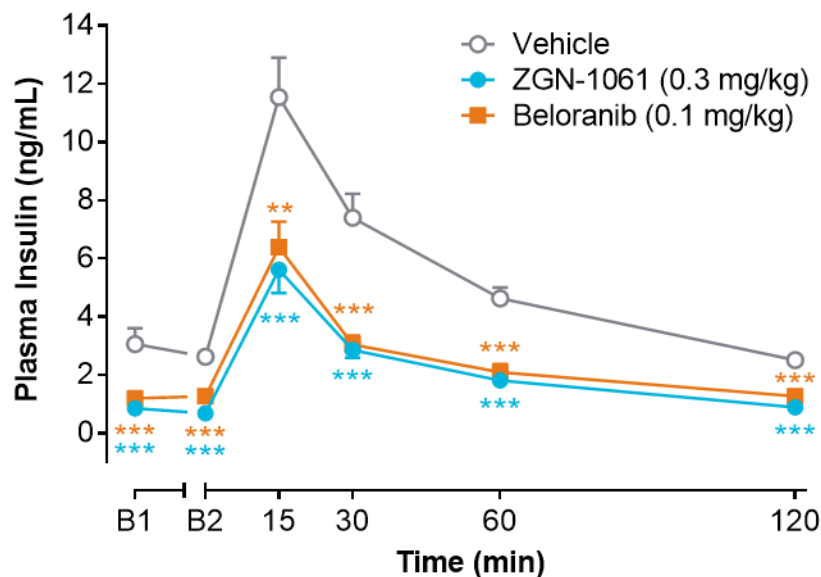
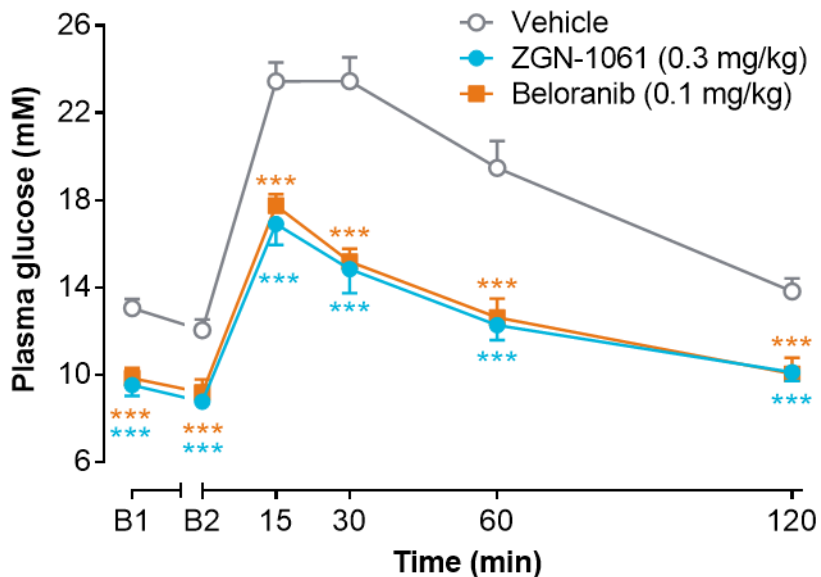
Trends observed in:

- Waist circumference
- Food intake
- C-reactive protein (CRP)
- Adiponectin
- Leptin

LDL Changes are Supportive of Drug Effect



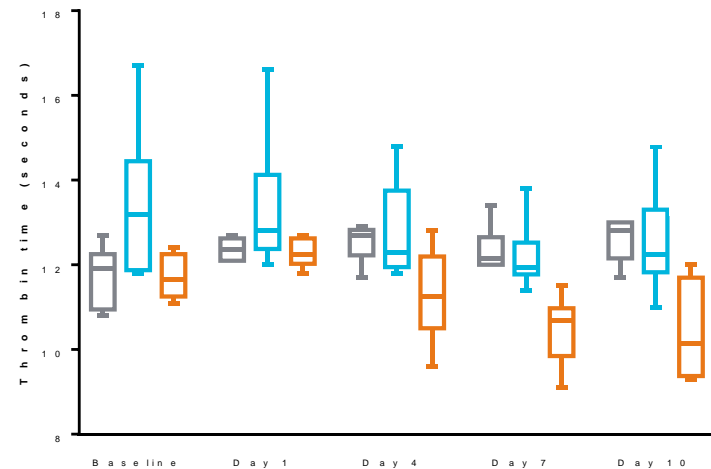
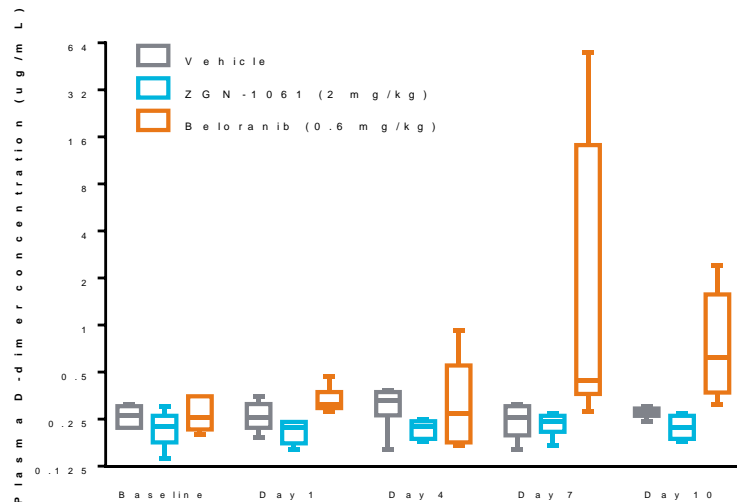
ZGN-1061 Shows Comparable Improvement in Glucose Tolerance as Beloranib in DIO Mice



Data are mean and SEM. Mice (n=9–10/group) were fasted overnight and dosed with vehicle or study drug SC. An oral glucose tolerance test was performed 60 minutes after dosing (t =0 min). Blood samples were obtained at t =-60 min (B1), 0 min (B2), and 15, 30, 60, and 120 min. Data are calculated from the residuals of the statistical models. Comparisons vs Vehicle of treatments were by Williams' test (ZGN-1061) and multiple t-test (beloranib). **p<0.01 and ***p<0.001 vs Vehicle. Abbreviations: SEM = standard error of the mean.

ZGN-1061: Improved Safety Profile for Markers of Thrombosis Compared to Beloranib

- ZGN-1061 does not affect thrombosis markers that are changed by beloranib in endothelial cells after up to 8 hours of exposure, including P21, thrombomodulin and PAI-1
- In contrast to beloranib, which produced changes in the coagulation markers D-dimer and thrombin time at 0.6 mg/kg, ZGN-1061 had no effect at 2 mg/kg

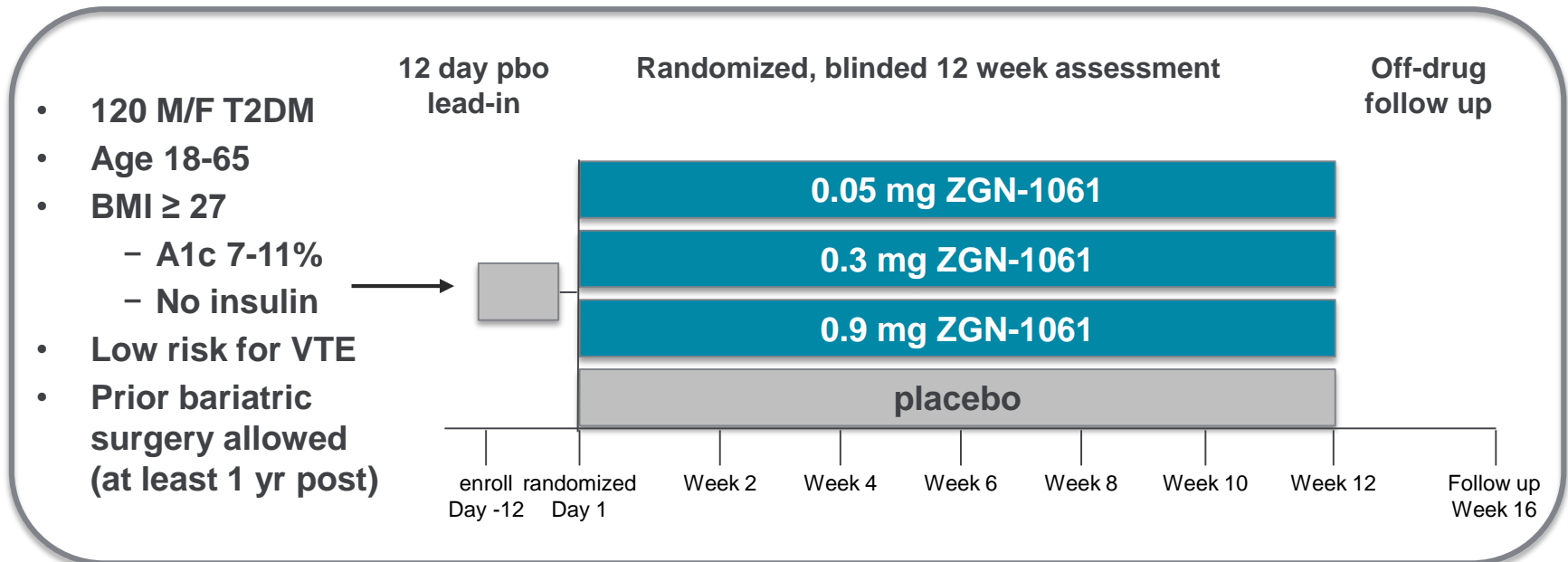


Arrow indicates day that beloranib-treated animals were in extremis (animals euthanized due to morbidity).

Key Findings

- Pharmacokinetic profile demonstrates rapid exposure and clearance
- Target engagement data supportive of effective exposure
- Efficacy data encouraging and supportive of drug effect
 - Up to approximately one pound/week average weight loss
 - Positive trends across multiple metabolic measures
- Overall safety/tolerability profile is clean, with no impact on sleep
- No prothrombotic effects observed with ZGN-1061
- Results support advancement into Phase 2 clinical trial

ZAF-1061-201: 3 Month Assessment of ZGN-1061 in Individuals with Type 2 Diabetes



- Randomization 3:1 active to placebo
- Study drug administered as SC injection every 3 days (Q3D)

ZAF-1061-201: Study Objectives

To assess the effects of three doses of ZGN-1061 vs. placebo on:

- Primary
 - Glycemic control (HbA1c)
 - Safety and tolerability including coagulation related measures
- Secondary
 - Body weight, waist and hip circumference
 - Supportive measures of glycemic control (fasting glucose, insulin, C-peptide, proinsulin, glucagon)
 - Beta-cell function and insulin sensitivity
 - Preprandial and postprandial glycemic parameters (50 patients)
 - Cardiometabolic, inflammatory, and other biomarkers relevant to obesity and/or T2DM
 - Patient reported outcomes
 - Pharmacokinetics (40 patients)



2Q 2017 Financial Results
Patricia Allen, Chief Financial Officer

2Q 2017 Selected Financial Summary

- Expect to end 2017 with greater than \$70 million in cash, cash equivalents and marketable securities
 - Strong position to drive ZGN-1061 forward through planned Phase 2 clinical trial
 - Expect cash balance will extend through calendar year 2018

Balance Sheets	As of June 30, 2017	As of June 30, 2016	As of December 31, 2016
Cash, Cash Equivalents and Marketable Securities	\$ 106.0M	\$ 150.5M	\$ 129.2M
Total Assets	\$108.8M	\$ 154.8M	\$131.6M

Statements of Operations	Quarter Ended June 30, 2017	Quarter Ended June 30, 2016	Quarter Ended December 31, 2016
Research & Development Expenses	\$ 10.5M	\$ 10.2M	\$ 7.3M
General & Administrative Expenses	\$ 3.0M	\$ 4.9M	\$ 3.2M
Net Loss	(\$ 13.3)M	(\$ 15.0)M	(\$ 10.4)M
Net Loss per Share	(\$0.49)	(\$0.55)	(\$0.38)



Conclusion

Tom Hughes, Ph.D., President and Chief Executive Officer

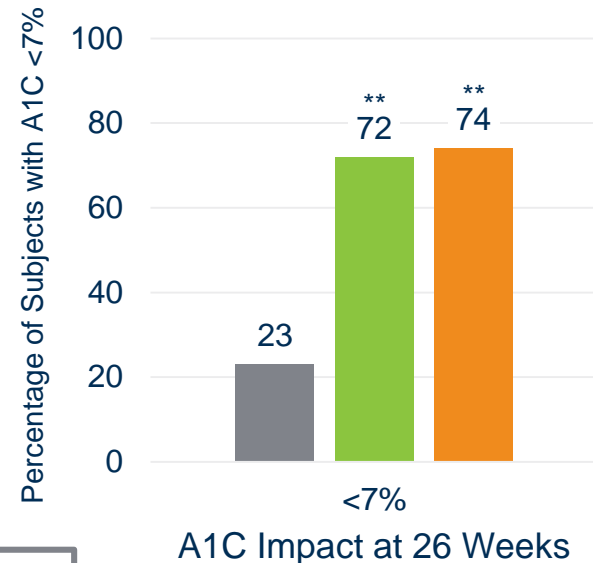
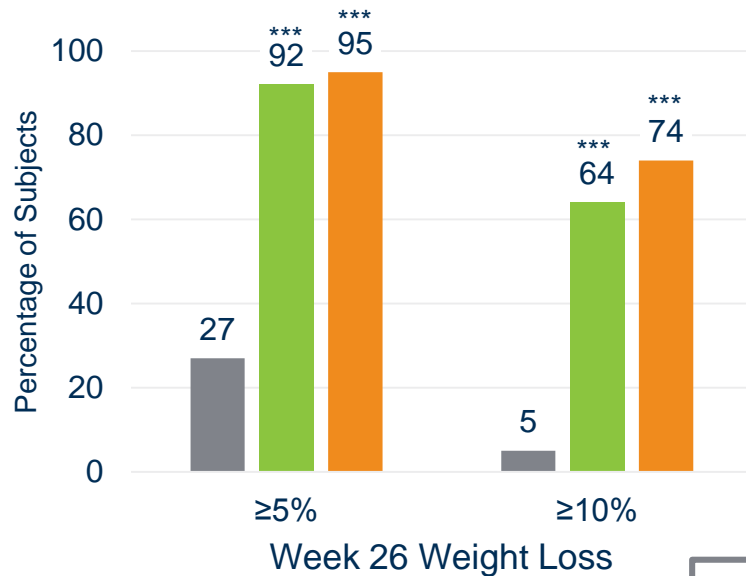
MetAP2 Inhibition: Potential for Best-in-Field Impact on Glycemic Control and Weight Loss

Beloranib Phase 2b ZAF-203 Clinical Trial

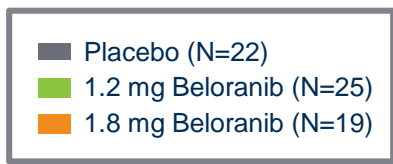
>90% of Treated Patients experienced **≥5%** weight loss

>60% of Treated Patients experienced **≥10%** weight loss

Majority of Treated Patients Achieved Key Target A1c Levels of <7%



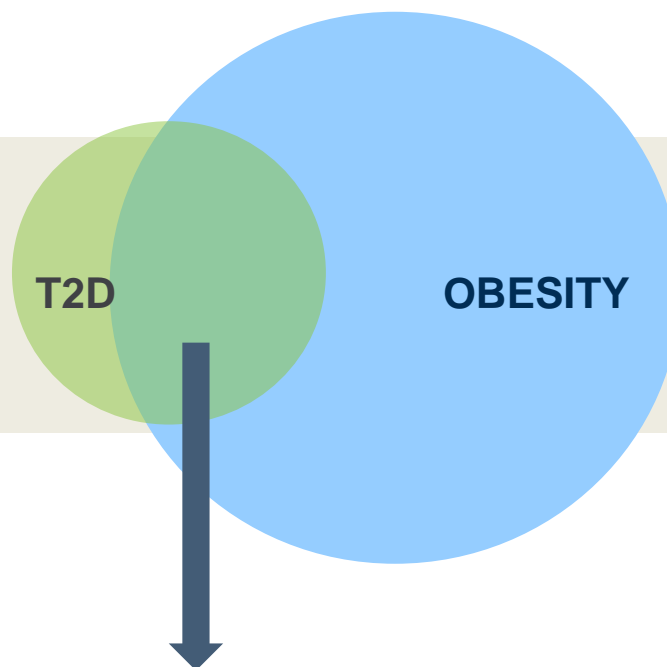
*p<0.05, **p<0.01, ***p<0.0001 for change from baseline with beloranib vs. placebo



Unmet Medical Need in Type 2 Diabetes and Obesity

Type 2 Diabetes Market

- 25M patients
- \$35B Rx market
- 80% of patients receive Rx
- More treatments needed due to progressive nature of disease



Obesity market

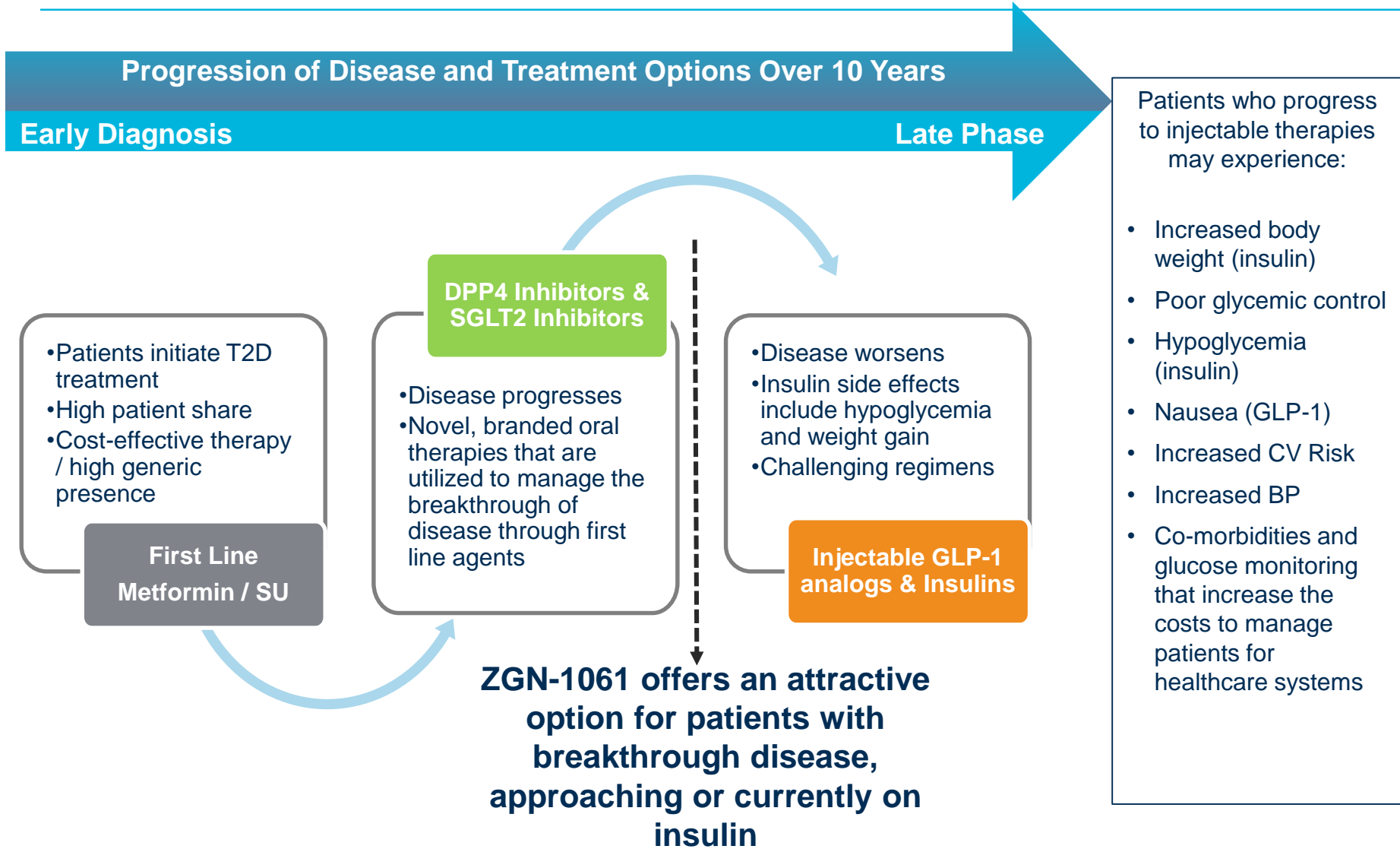
- 100M patients
- \$500M Rx market
- 5% of patients receive Rx
- Few treatment options

Opportunity for ZGN-1061 to address patient segments of high unmet need

Patients who have failed numerous Rx options/procedures (bariatric surgery failures, patients who require insulin)

Patient segments defined by poor glycemic control, excess weight, inflammation, hyperlipidemia, and fatty liver

Living with Type 2 Diabetes



2017 R&D Objectives

MetAP2 Portfolio

- Ongoing research and discovery focused on MetAP2 pathway

ZGN-1061

- Complete dosing of ZGN-1061 Phase 1 clinical trial by end of Q1; report data in early Q2
- Report data package on differentiation of ZGN-1061 from beloranib
- Initiate Phase 2 clinical trial of ZGN-1061 in type 2 diabetes and obesity in Australia and New Zealand in 3Q17
- Abstracts and presentations regarding ZGN-1061 clinical and nonclinical profile
- Refine manufacturing to provide Phase 2 and Phase 3 drug supply



Q&A

A scenic view of a beach with waves crashing onto the shore under a clear blue sky. The water is a vibrant turquoise color, and the sand is a light, golden hue. The waves are white and frothy as they break onto the beach.

Thank You