

Effects of EB613 Tablets [Oral PTH(1-34)] on Trabecular and Cortical Bone Using 3D-DXA: Post-Hoc Results from Phase 2 Study

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Disclosures

- **Rachel B Wagman – Key clinical advisor and scientific advisory board member, Entera Bio Ltd.**
- **Felicia Cosman – Key clinical advisor and scientific advisory board member, Entera Bio Ltd.**
- **Serge L Ferrari – Consultant, Entera Bio Ltd.**
- **Rogely Boyce – Consultant, Entera Bio Ltd.**
- **Ludovic Humbert – Stockholder and employee of 3D-Shaper Medical**
- **Gregory Burshtein, Constantin Itin, Hillel Galitzer, Michal Kushnir, and Miranda Toledano – are employees of and may own stock/options, Entera Bio Ltd.**

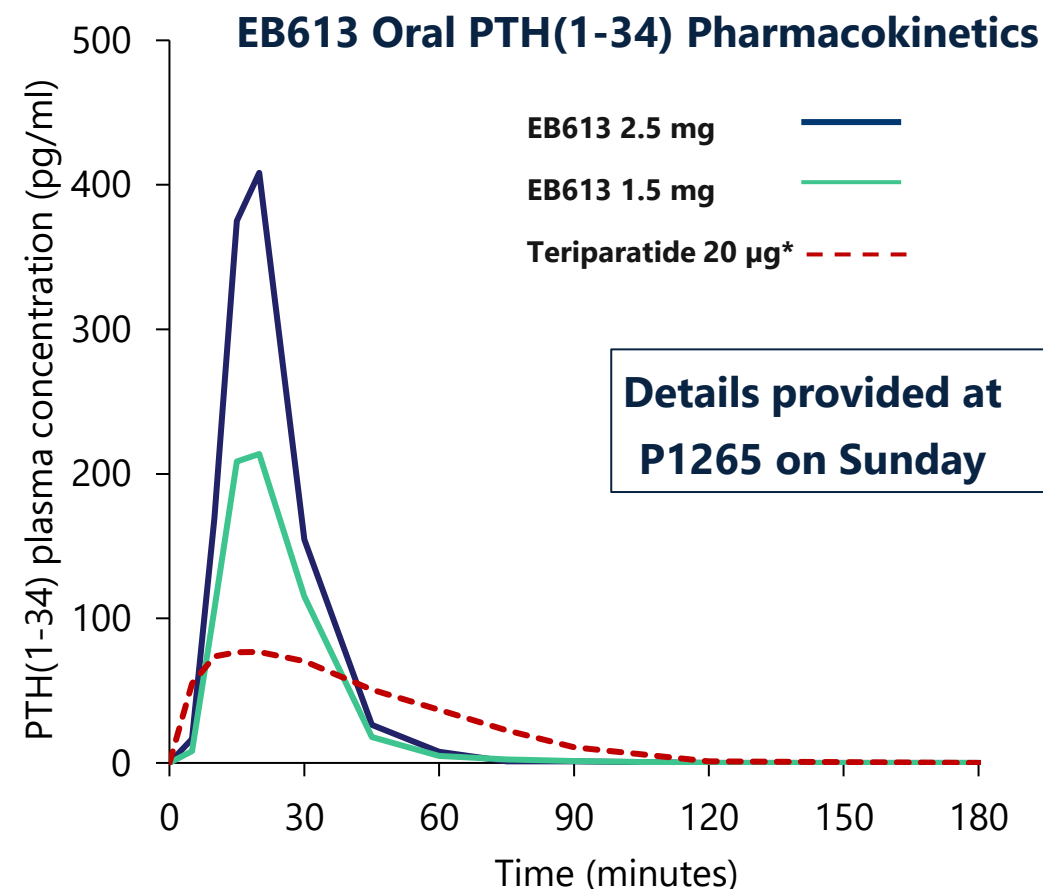
Background

Anabolic agents are currently used in a minority of patients for whom these agents are appropriate

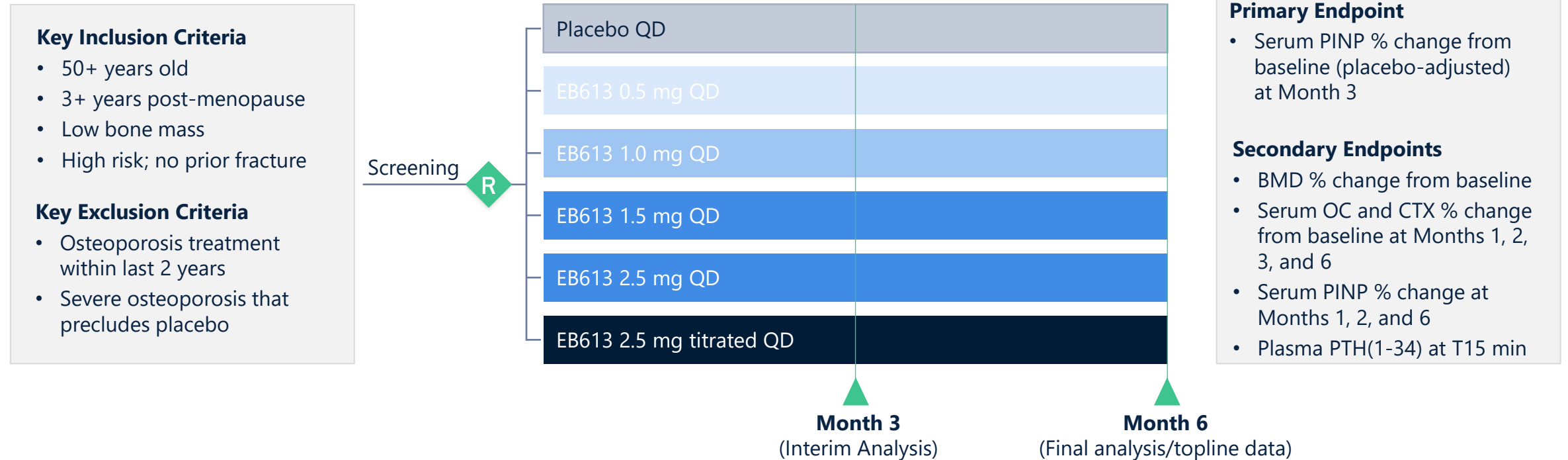
- This treatment gap is in part related to the need for subcutaneous administration limiting patient acceptance ^{1, 2, 3}

EB613 is being developed as an oral PTH(1-34) tablet treatment for osteoporosis

- Intended to provide an anabolic treatment to increase skeletal mass and reduce fracture risk in women at increased/high risk for fracture
- Safety of oral PTH(1-34) tablets has been studied in six Phase 1 and Phase 2 studies

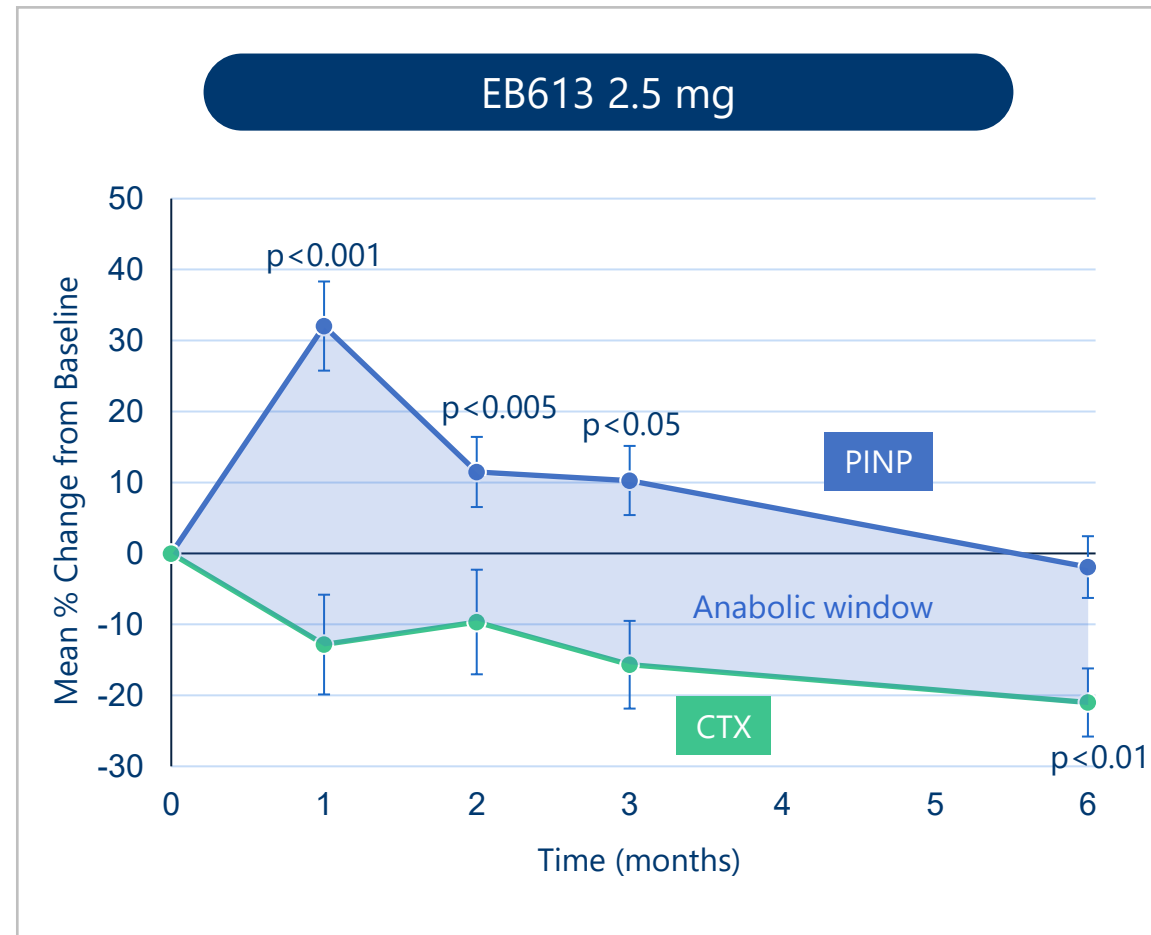


EB613 Phase 2 Clinical Study Design

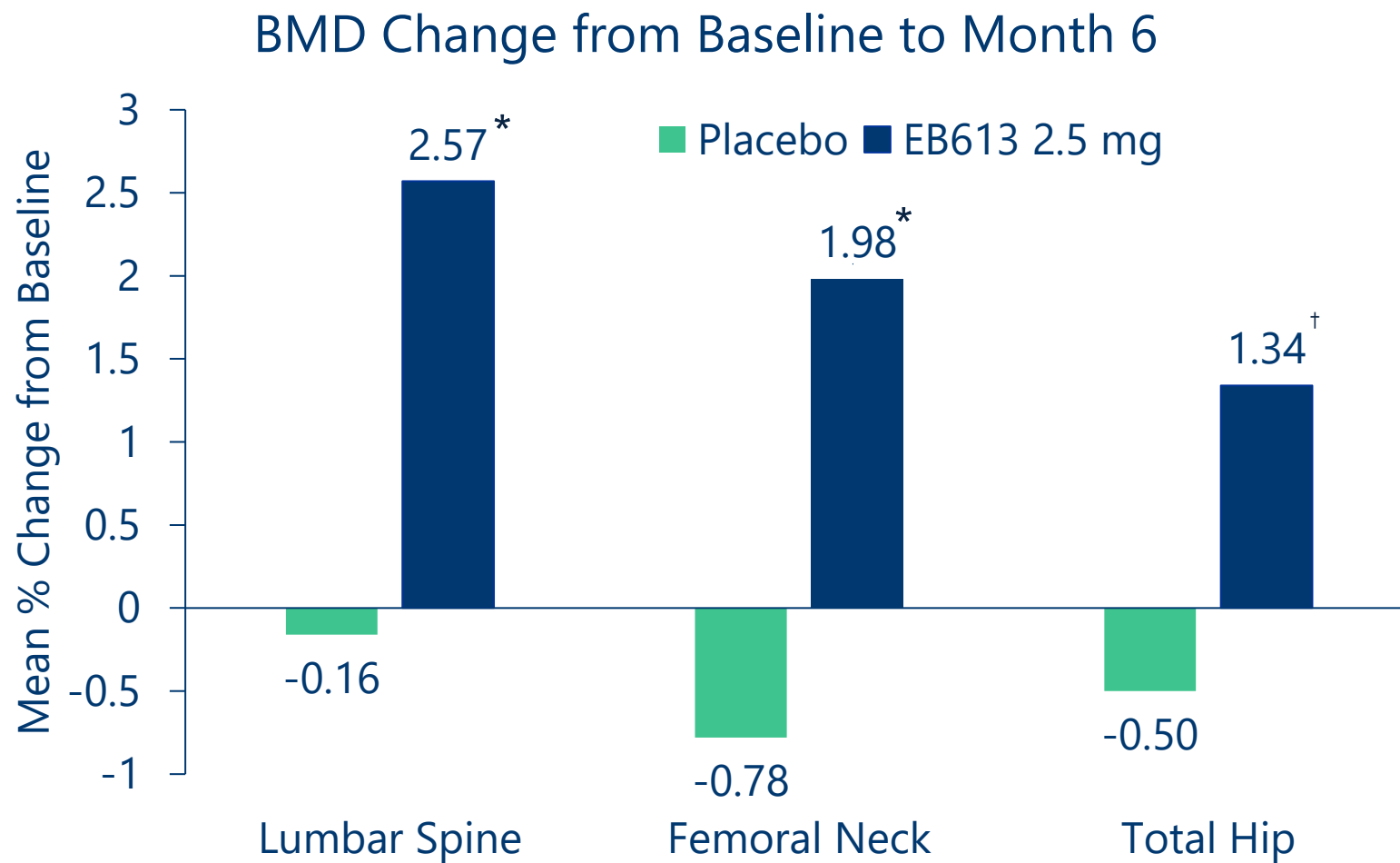


- 6-month, randomized, dose-ranging, placebo-controlled study in postmenopausal women with osteoporosis
- Conducted at 4 sites; Enrollment: 161 patients (118 active, 43 placebo)

EB613 Increased Bone Formation (PINP) and Decreased Bone Resorption (CTX)



EB613 Increased BMD from Baseline to Month 6 at All Measured Skeletal Sites



Objective of Current Study

Characterize effects of EB613 on trabecular & cortical bone of the proximal femur using 3D-DXA modeling at 6 months

Methods

- **All Phase 2 study subjects from the EB613 2.5 mg (n=21) and placebo (n=38) groups who had DXA scans of the proximal femur at baseline and 6 months were included**
- **3D-DXA analyses were performed using 3D-Shaper® software to assess trabecular and cortical compartments**
- **For each parameter, % change from baseline for each subject and mean (SD) for each group were calculated**
- **Data were analyzed within groups vs baseline and between groups using t-tests**
- **Average 3D-DXA models were developed to show anatomical distribution of structural changes in each group**

Demographics and Baseline Characteristics

Parameter (Mean, SD)	EB613 2.5 mg (N = 21)	Placebo (N= 38)
Age	62.2 (4.5)	61.2 (5.4)
Body mass index	26.6 (4.3)	25.3 (5.1)
Baseline T-score		
Lumbar spine	-2.2 (0.8)	-2.3 (0.7)
Total hip	-1.9 (0.7)	-2.0 (0.6)
Femoral neck	-2.2 (0.5)	-2.1 (0.6)

Percentage Change from Baseline to Month 6 in aBMD by DXA and vBMD by 3D-Shaper

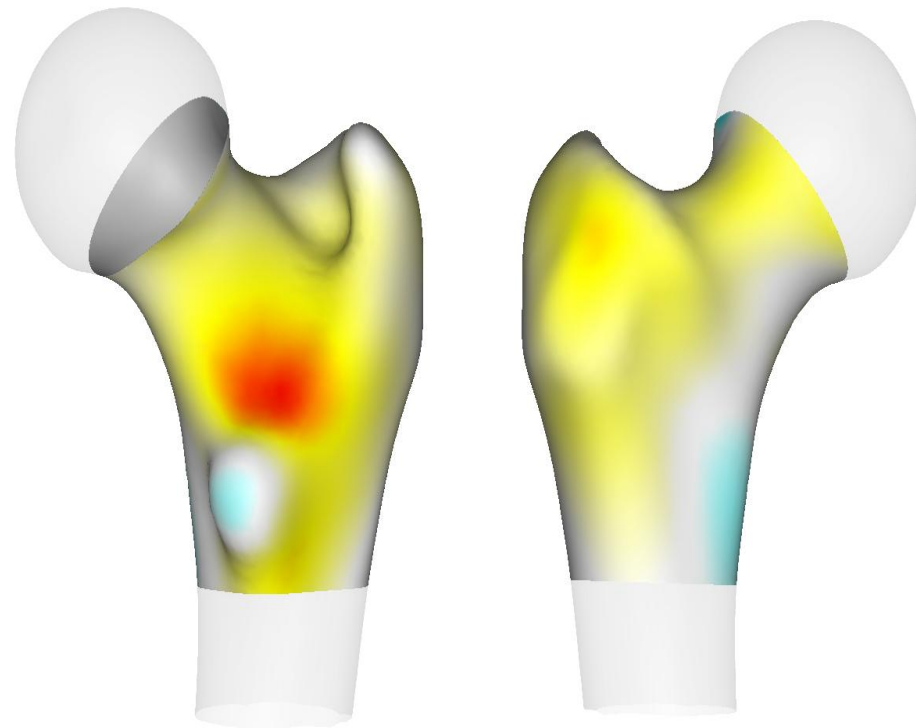
Parameter (Mean % Change, SD)	EB613 (N = 21)	Placebo (N = 38)	Placebo- adjusted % change	Group Difference p-value
Areal BMD				
Total hip	1.4 (2.7)	-0.5 (2.8)	1.8	<0.01
Femoral neck	1.9 (2.5)	-0.7 (3.9)	2.6	<0.01
Integral vBMD				
Total hip	1.1 (4.4)	-0.6 (4.4)	1.7	<0.08
Femoral neck	2.1 (4.7)	-0.5 (5.1)	2.6	<0.03
Trabecular vBMD				
Total hip	2.8 (6.8)	-0.2 (10.0)	3.0	0.14 ⁺
Femoral neck	4.3 (6.3)	-0.1 (8.3)	4.4	<0.03

Percentage Change from Baseline to Month 6 in Selected Cortical Parameters by 3D-Shaper

Parameter (Mean % Change, SD)	EB613 (N = 21)	Placebo (N = 38)	Placebo- adjusted % change	Group Difference p-value
Cortical vBMD				
Total hip	0.4 (4.3)	0.0 (3.4)	0.4	0.36
Femoral neck	0.6 (3.7)	-0.1 (3.2)	0.7	0.21
Cortical thickness				
Total hip	0.4 (2.8)	-0.9 (2.6)	1.3	0.04
Femoral neck	0.5 (3.8)	-1.2 (3.7)	1.7	0.06
Cortical sBMD				
Total hip	0.7 (3.4)	-0.8 (3.0)	1.5	<0.05
Femoral neck	0.9 (4.0)	-1.3 (4.2)	2.1	<0.05

Distribution of Average Cortical Surface BMD % Change from Baseline to Month 6

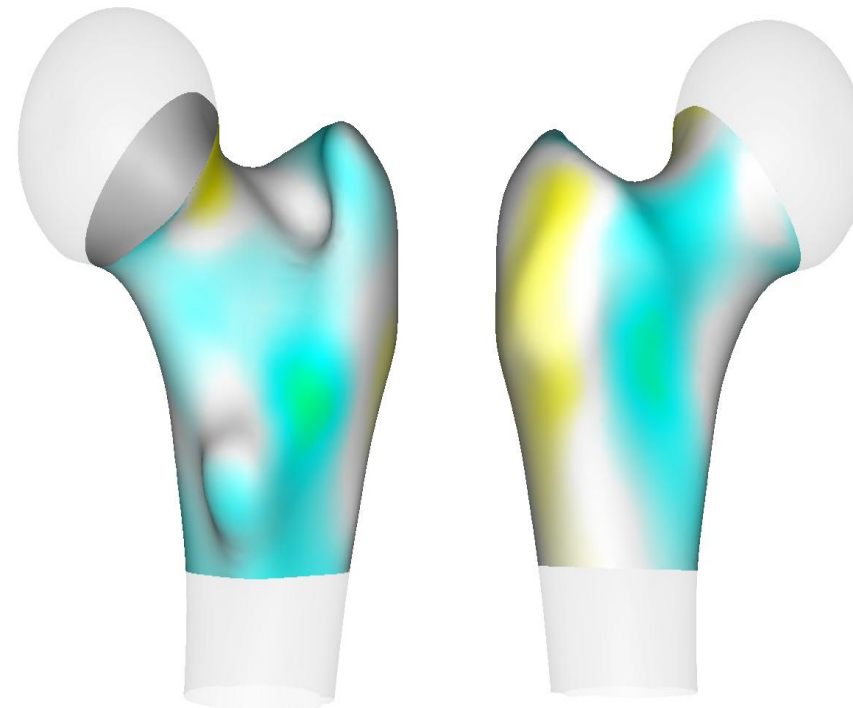
Placebo (N = 38)



Posterior View

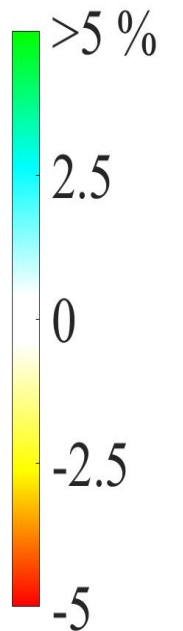
Anterior View

EB613 (N = 21)



Posterior View

Anterior View



Summary

- **6 months of treatment with EB613 showed evidence of an early effect on both trabecular and cortical bone of the proximal femur**
- **Findings are consistent with the dual mechanism of increased bone formation and decreased resorption**
- **Safety and efficacy of EB613 will be further evaluated in the planned Phase 3 trial**



**We thank the investigators and study subjects for
their participation**