

## Patients with a prior major non-vertebral fracture



History of prior fracture at any site is an important risk factor for future fractures.<sup>2</sup>

In the **VERO** subgroup analyses, no significant heterogeneity in the treatment effect of **FORSTEO** vs risedronate was demonstrated in patients defined by a **prior major non-vertebral fracture\*** for most fracture endpoints, including the primary endpoint of new vertebral fractures.<sup>1</sup>

**IN VERO: 385 (28.3%) patients had had a prior major non-vertebral fracture<sup>1#</sup>**

### PRIMARY ENDPOINT NEW VERTEBRAL FRACTURES<sup>1</sup>

**73%**

relative risk reduction vs risedronate at 24 months in patients with a prior major non-vertebral fracture

### SECONDARY ENDPOINT POOLED NEW AND WORSENER VERTEBRAL FRACTURES<sup>1</sup>

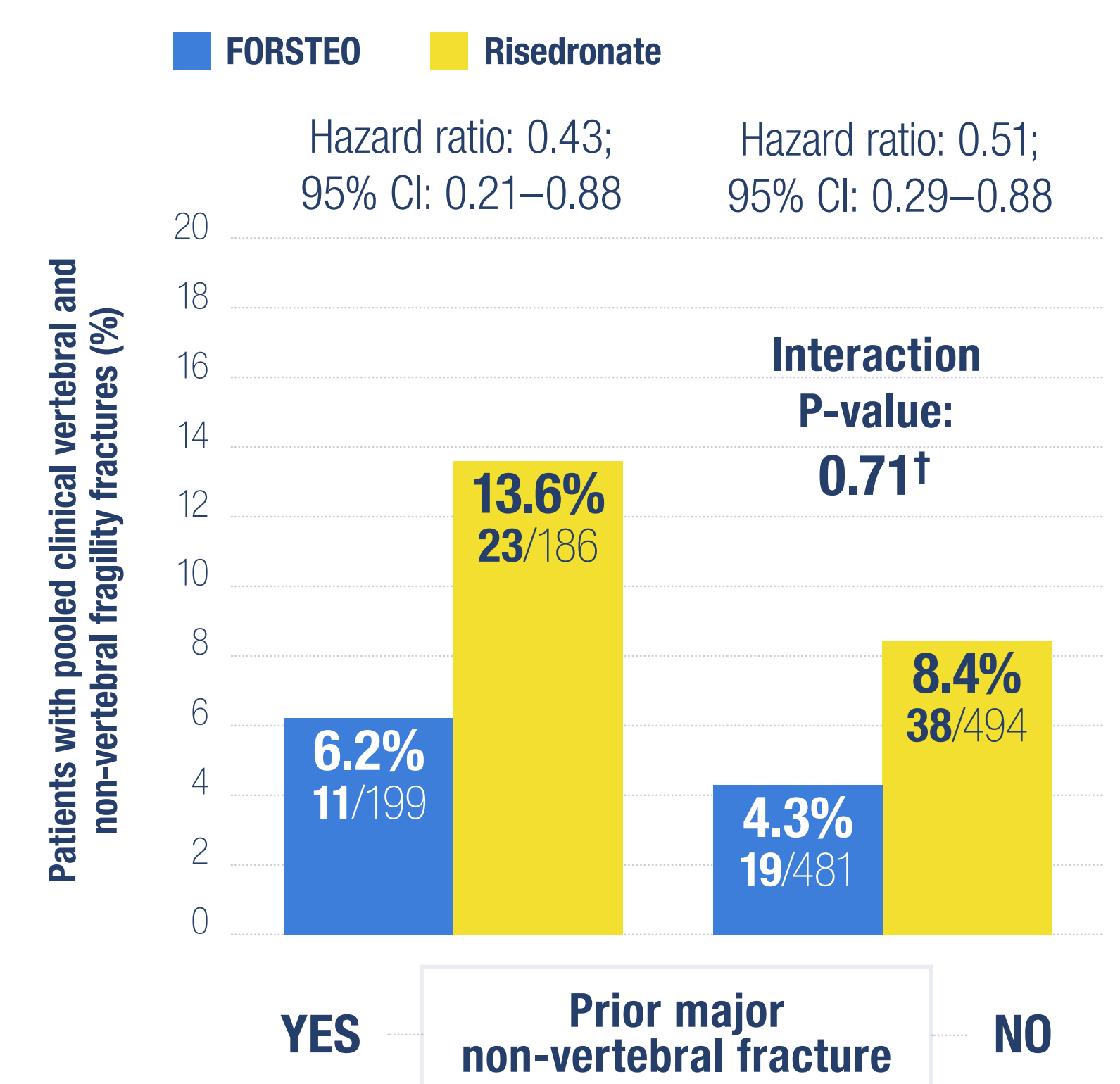
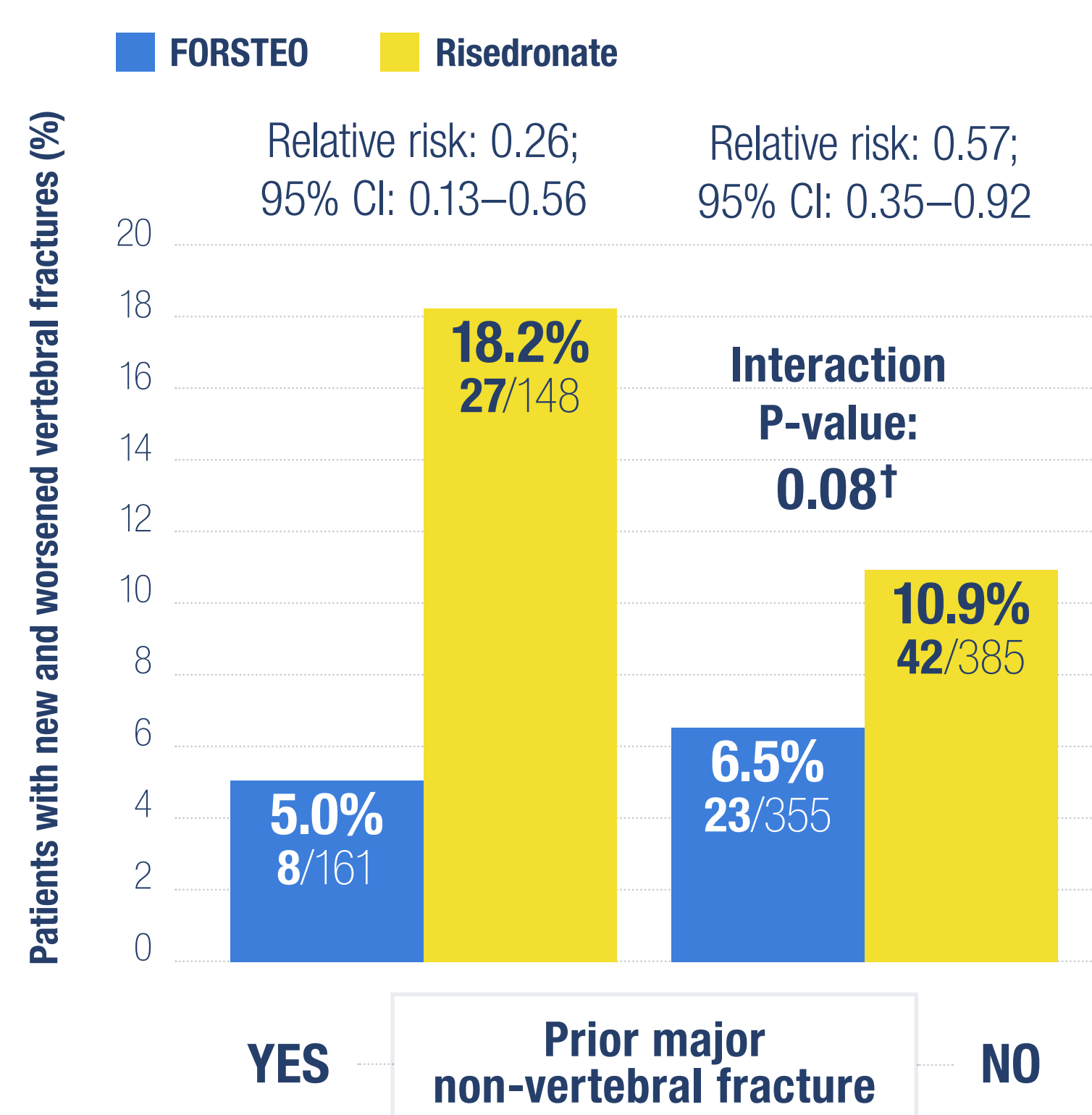
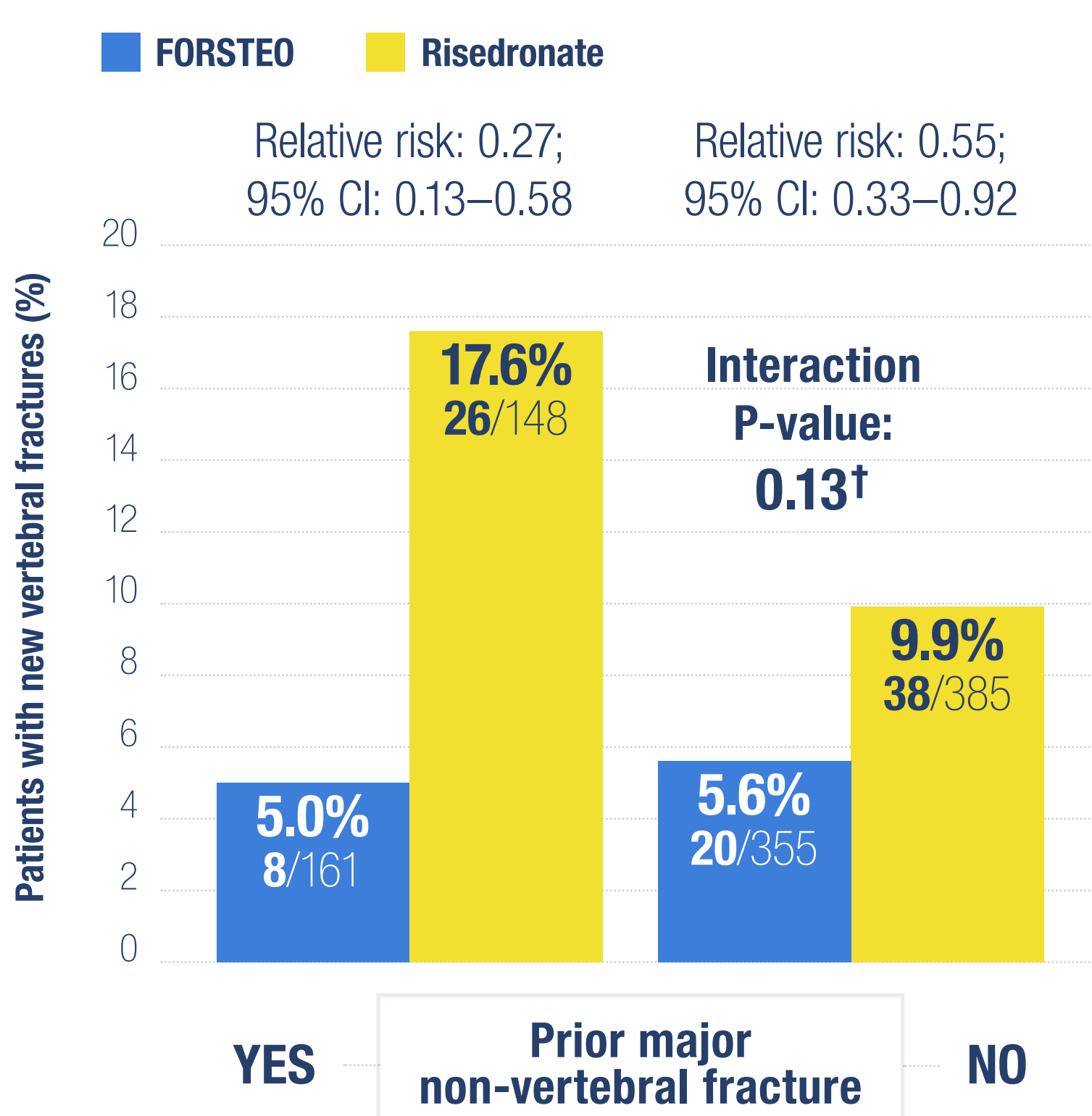
**74%**

relative risk reduction vs risedronate at 24 months in patients with a prior major non-vertebral fracture

### SECONDARY ENDPOINT POOLED CLINICAL VERTEBRAL AND NON-VERTEBRAL FRAGILITY FRACTURES<sup>1</sup>

**57%**

relative risk reduction vs risedronate at 24 months in patients with a prior major non-vertebral fracture



Adapted from Geusens P, et al. J Bone Miner Res (2018)<sup>##</sup>

**Adverse events were balanced across the two treatment groups with both drugs being well tolerated<sup>3</sup>**

## RELEVANCE TO CLINICAL PRACTICE

These results indicate the additional fracture benefit of using an anabolic as compared to an anti-resorptive drug across multiple patient clinical scenarios.



### OTHER SECONDARY ENDPOINTS: Non-vertebral fragility fractures & major non-vertebral fragility fractures<sup>1,3</sup>

The non-significant difference in treatment effect for FORSTEO vs risedronate observed in the overall analysis was not affected by a prior major non-vertebral fracture.

In post-menopausal women with osteoporosis and pre-existing vertebral fractures, treatment with **FORSTEO** reduced the relative fracture risk vs risedronate at 24 months in the following fracture endpoints:<sup>3</sup>

#### Relative risk reduction:

**56%**

P<0.0001; ARR 6.6%

new vertebral fractures

**54%**

P<0.0001; ARR 6.9%

pooled new and worsening vertebral fractures

**52%**

P=0.0009; ARR 5.0%

pooled clinical vertebral and non-vertebral fractures

## VERO PRIMARY ANALYSIS

**FORSTEO** is superior to risedronate in reducing the risk of new vertebral fractures during 24 months of therapy in post-menopausal women with severe osteoporosis<sup>3</sup>

Prospectively planned subgroup analyses of the VERO fracture data assessed potential heterogeneity in the treatment effect across nine clinically relevant patient subgroups.<sup>1</sup>



**Download the VERO primary analysis paper**



**Download the VERO subgroup analysis paper**

ARR, absolute risk reduction; CI, confidence interval

<sup>1</sup>Prior major non-vertebral fractures included fractures of the hip, radius, humerus, ribs, pelvis, tibia and femur (excluding pathologic fractures).

<sup>2</sup>A treatment-by-subgroup interaction P-value <0.1 was considered evidence of an effect modifier. These analyses were exploratory in nature and therefore the possibility of a true differential treatment effect for some subgroups cannot be ruled out due to lack of statistical power.

<sup>3</sup>1. Geusens P, et al. J Bone Miner Res. 2018;33:783–794. 2. Klotzbuecher CM, et al. J Bone Miner Res. 2000;15(4):721–739. 3. Kendler DL, et al. Lancet. 2018;391:230–240.

\* Full Analysis Set  
\*\* Modified Analysis Set

Fachinformation

PP-TE-DE-0294 November 2018 ©  
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