Phase 3 / Head-to-Head Trial / 1,718 Patients Newly Diagnosed with Multiple Myeloma¹

- Zoledronic acid and denosumab were clinically comparable in preventing skeletal-related events (spinal cord compression, pathological fracture, or surgery or radiotherapy to affected bone). [p-value (non-inferiority)=0.010]¹
- Both zoledronic acid and denosumab had similar rates of grade 3 adverse events. Most common were, febrile neutropenia (10% vs 11%), pneumonia (8% vs 8%), thrombocytopenia (12% vs 14%).¹

Phase 3 / Head-to-Head Trial / 2,049 Patients Breast Cancer Treated for Bone Metastases⁴

- Denosumab delayed time to first skeletalrelated event by 18% compared to zoledronic acid. Overall survival (p=0.49) and disease progression (p=0.93) were similar between study groups.⁴
- Rates of severe adverse events (grade ≥3) and serious AEs (life threatening or requiring hospitalizations) were also similar between groups.⁴

Phase 3 Trials / FDA Approval & Labels Osteoporosis^{3,7}

- Phase 3, randomized trial with 7,736 patients, show an absolute risk reduction of 7.6%, translating to 13 patients are needed to be treated with zoledronic acid to prevent 1 vertebral fracture (NNT=13)⁷
- Phase 3, randomized trial with 7,808 patients, show an absolute risk reduction of 7.6%, 21 patients are needed to be treated with denosumab to prevent 1 vertebral fracture (NNT=21)³







1. Raje N, Terpos E, Willenbacher W, et al. Denosumab versus zoledronic acid in bone disease treatment of newly diagnosed multiple myeloma: an international, double-blind, double-dummy, randomised, controlled, phase 3 study. Lancet Oncol. 2018;19(3):370-381. doi:10.1016/S1470-2045(18)30072-X.

3. Prolia [package insert]. Thousand Oaks, CA: Amgen Inc; 2020.

4. Stopeck AT, Lipton A, Body JJ, et al. Denosumab compared with zoledronic acid for the treatment of bone metastases in patients with advanced breast cancer: a randomized, double-blind study. J Clin Oncol. 2010;28(35):5132-5139. doi:10.1200/JCO.2010.29.7101.

7. Reclast [package insert]. East Hanover, NJ: Novartis Pharmaceuticals Corporation; 2020.

12. CMS Average Selling Price File. <u>https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Part-B-Drugs/McrPartBDrugAvgSalesPrice/index</u>

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