

Effects of pre-extraction intermittent PTH administration on extraction socket healing in bisphosphonate administered ovariectomized rats

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Supplementary Fig. 1 Effects on the proximal tibia related to parathyroid hormone (PTH) administration (**a**)

Representative cross-sectional images of each group. The PTH-administered groups have a higher (**b**) bone volume/tissue volume (BV/TV) percentage, (**c**) trabecular number (Tb.N), and (**d**) trabecular thickness (Tb.Th), and (**e**) lower trabecular separation (Tb.Sp), compared with the Control group.

* $p < 0.05$, versus the Control

Supplementary Fig. 2 (**a**) Region of interest (ROI) in micro-computed tomography (micro-CT) analysis of the proximal tibia The ROI is set between 1.2 mm and 3.5 mm from the growth plate to identify the systemic effect of administering parathyroid hormone (PTH). (**b**) Micro-CT analysis of the socket. The ROI is focused on the

center of the extraction socket (red circle). The black oblique line indicates the extraction socket healing area.

Supplementary Fig. 3 Representative images of experimental groups based on H&E images (magnified x200). (a) Control group, (b) Pre-PTH group, (c) Post-PTH group. A number of inflammatory cells with surrounding necrotic bone was observed in Control group. Various number of osteoclast (arrow) were observed in Pre-PTH and Post-PTH groups in extraction socket. The scale bar (black line) indicates 50µm.

Alv., Alveolar bone; N, Necrotic bone