



**SUPPLEMENTARY FIGURE 4.** Plate placement parameters for the Group 3. Photographs showing the standardized positioning of the plate on the medial distal femur. Reference measurements include a distal distance of 35 mm from the articular surface to the most distal screw row and an anterior distance of 30 mm from the anterior condylar rim to the anterior edge of the plate. The shaft segment of the plate was aligned parallel to the posterior cortical line with a slight 10° oblique orientation relative to the femoral shaft. The relationships to the Blumensaat's line, medial epicondyle, and screw trajectories are indicated for reproducibility.