A FIXATION DEVICE FOR CORRECTIVE OSTEOTOMY:
BRIEF REPORT

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When performing a corrective osteotomy it is sometimes difficult to hold the position of small bone fragments while fixation is carried out. We report the use of a new device which overcomes this difficulty. The Ikuta device consists of a pair of rectangular metal blocks (3.5 × 2.5 × 1.1 cm), each drilled to receive a Kirschner wire, which can be held in the block by a screw. These blocks are linked by two slotted bars, which are secured to the blocks and to each other by bolts (Fig. 1). These three bolts can be adjusted and tightened by use of a small ratchet spanner. The device allows a pair of K-wires to be held securely at any angle or distance from each other, limited only by the length of the slotted bars.

Technique. One K-wire is placed through the bone on each side of the proposed osteotomy. The proximal wire is placed transversely and the distal one is inserted so that it is at the desired angle of correction to the first wire in both varus–valgus and rotation.

A dome-shaped osteotomy is completed between these wires and the device is fitted over them. By adjustment of the fixation nuts the wires can be brought into parallel position, with the bone fragments in contact (Fig. 2). Fixation is then completed, either with a small plate and screws, or with multiple fine wires, and the Ikuta device is removed.

References


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