Figure 1 Schematic illustration of the technique

The novel use of an external fixator connecting rod and synthetic bone substitute to achieve anatomic reduction of depressed tibial plateau fracture fragments

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Elevation of depressed articular fragments is crucial for anatomic reduction of tibial plateau fractures. We describe a technique of

Figure 1 External fixator rod

elevating the depressed fragment using a cortical window, an external fixator connecting rod (Fig 1) and injectable bone substitute.

A cortical window is made under image guidance using a 2.5mm drill to make four holes in a square configuration. A narrow osteotomy is used to connect three sides. The connecting rod is inserted into the cortical window and used as a punch to elevate the articular fragment under image guidance (Fig 2). Injectable bone substitute is then used to fill the defect created (Fig 3).

Figure 2 Elevation of articular fragment with the connecting rod

Figure 3 Injectable bone substitute used to fill defect