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Systematic review of periprosthetic tibia fracture after total knee arthroplasties

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Abstract

This review was designed to compile the known incidences and treatments of peripros-
thetic tibia fractures after total knee arthroplasties (TKA). A literature search of the
Pubmed and Web of Science databases was done to identify studies that fit the inclusion
criteria. There were 13 papers, totaling 157 patients, found that met the inclusion crite-
ria. Incidence rates of fracture types showed that type 1 was the most common, with
type 2 and 3 being equal in occurrence; type 4 fractures were rare. Treatment methods
were determined based on the fracture's subclass, with patient outcomes being overall
favorable. Periprosthetic tibia fractures are relatively uncommon. Type 1 fractures
were the most common among documented types. Subclass A fractures were treated
with locking plates, subclass B fractures first required a revision TKA, and subclass C
fractures were either treated intraoperatively when they occurred or were treated pos-

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