Osteosarcoma of the Proximal Tibia: Limb-Sparing Resection and Reconstruction with a Modular Segmental Proximal Tibia Tumor Prosthesis

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ABSTRACT A limb-sparing resection was performed for osteosarcoma of the proximal tibia in a young patient. A special modular segmental proximal tibial endoprosthesis that includes a hinged total knee component was used for reconstruction. A medial gastrocnemius rotational flap was utilized to reconstruct the extensor mechanism of the knee. The muscle flap aids in covering the prosthesis and helps to

protect against infection. Limb-sparing resection for tumors arising from the proximal tibia, and reconstruction with a modular segmental proximal tibia tumor prosthesis and gastrocnemius muscle flap, is a safe and reliable method for treating tumors involving this area.

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