

**TABLE 6-1. THE PAPROSKY CLASSIFICATION**

TYPE	METAPHYSIS	DIAPHYSIS	RECONSTRUCTION TECHNIQUE/IMPLANT TYPE	NOTES
I	Minimal bone loss	Completely intact	1. Extensively coated, noncemented; OR 2. Proximally coated, noncemented; OR 3. Cemented implant	Similar to primary THA
II	Moderate bone loss	Completely intact	1. Extensively coated, noncemented implant; OR 2. Proximally coated, noncemented implant with diaphyseal stabilization	Watch for varus femoral remodeling; may need ETO
IIIA	Severe bone loss	4 cm or greater of intact cortical bone at femoral isthmus	1. Extensively coated, noncemented; OR 2. Modular tapered cementless implant; OR 3. Impaction grafting	1. Watch for varus femoral remodeling 2. Ensure prosthesis long enough for 4 cm scratch fit
IIIB	Severe bone loss	Less than 4 cm of intact cortical bone at isthmus	1. Modular tapered cementless implant; OR 2. Impaction grafting	
IV	Severe bone loss	Severe bone loss: isthmus nonsupportive	1. Modular tapered cementless implant 2. Impaction grafting (if proximal femoral cortex intact); OR 3. APC (if proximal femoral cortex deficient); OR 4. Megaprosthesis (if proximal femoral cortex deficient)	In low demand or elderly patients a megaprosthesis or long cemented femoral prosthesis may be used

THA indicates total hip arthroplasty; ETO, extended trochanteric osteotomy; APC, allograft-prosthesis composite.