

TABLE E-1 Association Research Circulation Osseous (ARCO) Classification

STAGE	0	I	II	III	IV
FINDINGS	All present techniques normal or nondiagnostic  Histology only	X-Ray & CT normal, at least one of the below mentioned positive	X-Ray: abnormal, mottled aspect, sclerosis cysts, porosis No flattening	X-Ray: crescent sign, subchondral fracture	X-Ray: Osteoarthritis, acetabular changes, cartilage thickness narrowing
TECHNIQUES	X-Ray, CT, Scintigraph, MRI	X-Ray, CT, Scintigraph, MRI  QUANTITATE Only MRI	X-Ray, CT, Scintigraph, MRI  QUANTITATE MRI & X-Ray	X-Ray, CT ONLY  QUANTITATE MRI & X-Ray	X-Ray, CT ONLY  QUANTITATE X-Ray
LOCATION	No	LOCATION (within subchondral bone arc from fovea to lateral edge) Medial 1/3, Central 1/3, Lateral 1/3			No
SIZE	No	QUANTITATION <u>% Area Involvement &amp; Dome Depression</u> Minimal A <15% Moderate B 15-30% Extensive C >30%			No
			<u>Length</u> A <15% B 15-30% C >30%	<u>% Surface Collapse</u> A <15%, <2mm B 15-30%, 2-4mm C >30%, >4mm	

TABLE E-2 Data on the Three Patients with Spontaneous Resolution of Osteonecrosis of the Femoral Head

Case	Gender, Age (yr)	Type of Transplant	Date of Transplant	Date of Initial Magnetic Resonance Imaging Examination	Date of Diagnosis of Osteonecrosis of Femoral Head	Modified Index of Necrotic Extent	Percentage of Femoral Head Involvement	Date of Initial Resolution	Time from Diagnosis to Initial Resolution	Date of Complete Resolution	Time to Resolution	Side of Osteonecrosis	Symptomatic	Steroid use	Smoking	Diabetes	Indication for Organ Transplantation
1	M, 35	Kidney Pancreas	6/25/1997	7/1/1997	12/4/1997	20.83	15%-30%	5/2/1998	10 months	2/14/2000	31 months	Right	N	Y	N	Y	Diabetes mellitus, type I
2	M, 32	Kidney	5/22/1997	5/27/1997	9/17/1997	11.10	<15%	8/12/1998	11 months	12/11/1998	19 months	Left	N	Y	N	N	IgA nephropathy
3	F, 39	Lung	12/5/1998	8/23/1996	8/23/1996	12.72	15%-30%	3/20/1997	7 months	4/18/2000	44 months	Left	N	Y	N	N	$\alpha$ -1 antitrypsin deficiency