

**Appendix, Table E-1: The ARCO International Classification of Osteonecrosis of the Femoral Head**

| STAGE | CLASSIFICATION  |
|-------|---|
| 0     | Bone biopsy results consistent with osteonecrosis; normal findings on all other tests   |
| I     | <p>Positive scintiscan or magnetic resonance image, or both;</p> <p><b><u>Location:</u></b> lesions subdivided into medial, central, or lateral depending on location of involvement of femoral head</p> <p><b><u>Quantification:</u></b></p> <p>I-A &lt; 15% involvement of femoral head*</p> <p>I-B 15 – 30% involvement of femoral head*</p> <p>I-C &gt; 30% involvement of femoral head*</p>  |
| II    | <p>Radiographic abnormalities (mottled appearance of femoral head, osteosclerosis, cyst formation, and osteopenia); no crescent sign or evidence of collapse of femoral head on radiographs;</p> <p><b><u>Location:</u></b> lesions subdivided into medial, central, or lateral depending on location of involvement of femoral head</p> <p><b><u>Quantification:</u></b></p> <p>II-A &lt; 15% involvement of femoral head*</p> <p>II-B 15 – 30% involvement of femoral head*</p> <p>II-C &gt; 30% involvement of femoral head*</p> |
| III   | <p>Crescent sign;</p> <p><b><u>Location:</u></b> lesions subdivided into medial, central, or lateral depending on location of involvement of femoral head</p> <p><b><u>Quantification:</u></b></p> <p>III-A &lt; 15% involvement of femoral head or &lt;2mm depression of femoral head†</p> <p>III-B 15 – 30% involvement of femoral head or 2 – 4 mm depression of femoral head†</p> <p>III-C &gt; 30% involvement of femoral head or &gt; 4 mm depression of femoral head†</p>  |
| IV    | Osteoarthritis: Articular surface flattened radiographically and joint space shows narrowing; changes in acetabulum with evidence of osteosclerosis, cyst formation, and marginal osteophytes   |

\* As determined on magnetic resonance imaging

† As determined on anteroposterior and lateral radiographs. The percentage given for the crescent sign refers to the percentage of the femoral head that the crescent sign subtends on the anteroposterior and lateral radiographs.

**Appendix, Table E-2: Steroid (prednisone) regimen:**

|          | Kidney<br>(living donor) | Kidney<br>(cadaver) | Pancreas and<br>Kidney/Pancreas | Liver          | Heart, Lung, and<br>Heart/Lung |
|----------|--------------------------|---------------------|---------------------------------|----------------|--------------------------------|
| POD #0   | 500 mg                   | 250 mg              | 2 mg/kg                         | 250 mg/kg      | 1 - 2 g                        |
| POD #1   | 1 mg/kg                  | 1 mg/kg             | 1 mg/kg                         | 200 mg         | 2 mg/kg                        |
| POD #2   | 0.5 mg/kg                | 1 mg/kg             | 1 mg/kg                         | 160 mg         | 1 mg/kg                        |
| POD #3   | 0.5 mg/kg                | 1 mg/kg             | 1 mg/kg                         | 120 mg         | 1 mg/kg                        |
| POD #4   | 0.25 mg/kg               | 1 mg/kg             | 0.75 mg/kg                      | 100 mg         | 1 mg/kg                        |
| POD #5   | 0.25 mg/kg               | 1 mg/kg             | 0.75 mg/kg                      | 80 mg          | 0.75 mg/kg                     |
| POD #6   | 15 mg                    | 0.75 mg/kg          | 0.75 mg/kg                      | 60 mg          | 0.75 mg/kg                     |
| POD #7   | 15 mg                    | 0.75 mg/kg          | 0.6 mg/kg                       | 40 mg          | 0.75 mg/kg                     |
| Week #2  | 15 mg                    | 0.5 mg/kg           | 0.6 mg/kg                       | 20 mg          | 0.5 mg/kg                      |
| Week #3  | 15 mg                    | 0.5 mg/kg           | 0.5 mg/kg                       | 17.5 mg        | 0.45 mg/kg                     |
| Week #4  | 15 mg                    | 0.45 mg/kg          | 0.4 mg/kg                       | 15 mg          | 0.4 mg/kg                      |
| Month #2 | 15 mg                    | 0.4 mg/kg           | 0.3 mg/kg                       | ↓ by 2.5 mg/wk | ↓ by 0.5 mg/kg/wk              |
| Month #3 | 12.5 mg                  | 0.35 mg/kg          | 0.2 mg/kg                       | 5 mg           | 0.2 mg/kg                      |
| Month #4 | 10 mg                    | 0.3 mg/kg           | 0.15 mg/kg                      | 5 mg           | 0.15 mg/kg                     |
| Month #5 | 10 mg                    | 0.25 mg/kg          | 0.1 mg/kg                       | 5 mg           | 0.1 mg/kg                      |
| Month #6 | 10 mg                    | 0.2 mg/kg           | 0.075 mg/kg                     | 5 mg           | 0.1 mg/kg                      |
| Year #1  | 10 mg                    | 0.15 mg/kg          | (+/-)                           | 5 mg           | 0.1 mg/kg                      |

Rejection protocol: 0.5 – 1.0 g Solu-Medrol IV x 3 days, followed by a rapid taper