

Patient Enrollment Criteria & Cohort groupings

Cohort	Age Range	Inclusion	Exclusion
<6 Registry	Age \geq 1 thru <6	<ul style="list-style-type: none"> • A child with LCPD with onset of symptoms* related to the hip between the ages of 1-6 years old. • Waldenstrom stages I, II or IIIa 	<ul style="list-style-type: none"> • Children not meeting one or more of the inclusion criteria. • Children with previous surgery on the affected hip. • Children with any of the following underlying causes to AVN: <ul style="list-style-type: none"> ○ Hemoglobinopathy ○ Endocrine dysfunction ○ Treated with oral or IV steroids or chemotherapy for >30 consecutive days ○ Previous history of congenital or acquired hip disease (i.e.- DDH, traumatic dislocation/fracture) with the exception of transient synovitis ○ Any form of skeletal dysplasia ○ Down syndrome ○ Coagulopathy ○ Hemophilia ○ Leukemia ○ Sickle cell disease
6-8 Early Stage	Age \geq 6 thru <8	<ul style="list-style-type: none"> • A child with LCPD with onset of symptoms related to the hip between the ages of 6-8 years old. • Waldenstrom stages I or IIa • Perfusion MRI 	
8-11 Early Stage	Age \geq 8 thru <11	<ul style="list-style-type: none"> • A child with LCPD with onset of symptoms related to the hip between the ages of 8-11 years old. • Waldenstrom stages I or IIa • Perfusion MRI 	
Late Stage	Age \geq 6 thru <11	<ul style="list-style-type: none"> • A child with LCPD with onset of symptoms related to the hip between the ages of 6 and 11 years old. • Waldenstrom stages IIb or IIIa • Maximum abduction x-ray 	
>11 Registry	Age \geq 11	<ul style="list-style-type: none"> • A child with LCPD, or secondary femoral head osteonecrosis due to trauma or corticosteroid therapy, with onset of symptoms related to the hip after 11 years of age. • Waldenstrom stages I, II (Perfusion MRI) • OR Waldenstrom stage IIIa (Max Abduction x-ray) 	

***Note:** If date of onset of symptoms is not available, we will use the date of diagnosis to determine their age cohort.