

**Population of AYA Patients
Newly Diagnosed with ALL
N=68**

- Critically ill at diagnosis (n=5)
- Declined study (n=10)
- Temporary study closure (n=1)
- Not in best interest per physician (n=1)

**Enrolled Cohort
N=51**

**Imaging not obtained
at time of diagnosis
N=13**

**Comparison at diagnosis
to non-leukemia cohort**

**Available cohort for
imaging analyses
N=38**

**Analysis
of change in bone
during ALL induction**

**Laboratory
measures**

**Radiographic
measures**

**Cohort for cancellous
bone comparison
(vertebrae)
N=38**

**Obtained at
diagnosis
N=38**

**Blood unable to be collected
(N= 1)**

**Obtained at end of
induction
N=37**

No associated imaging (N= 2)

**Cohort with
complete imaging
during induction*
N=35**

**Femur scans only – no
matched control available
(N= 20)**

**Sub-cohort for cortical
bone comparison (tibia)
N=18**

- Movement artifact (N=1)
- End of induction imaging not performed (N= 2)

***Cohort with
complete imaging
during induction
N=35**

***Indicates same cohort**