

NORIP

Suggested reference interval for Uric acid in serum

Reference interval(s) suggested by NORIP

Female, all ages:	227 – 367 umol/L
Male, all ages:	227 – 467 umol/L

Distribution of results in the main group and in subgroups

By 2.5 – 25 – 50 – 75 – 97.5 percentiles

	Percentiles				
	2.5	25	50	75	97.5
All:	162	235	282	336	443
Female:	152	210	243	281	369
Male:	225	290	329	368	463
Females < 50 years:	145	201	233	264	345
Females > 50 years:	169	226	263	299	389

Comments to the distributions

- Moderate right tail skew for both genders.
- There is a marked difference between the distributions for the two genders. Percentages of the distribution for each gender outside the reference limits of the combined distribution justify partitioning:
 - Female: 0,3 %
 - Male: 5,1 %
- In females, but not in males, there is a marked correlation between the serum level of uric acid and age:
 - Percentage of the distributions for females over and under 50 years outside the reference limits of the distribution for the two age groups combined:
 - < 50 years: 1,2 %
 - > 50 years: 4,5 %
 - This justifies partitioning.
- There are some differences between the nordic countries, but none is considered big enough to demand partitioning. Iceland?

Suggested reference intervals

Males:	225 – 463 umol/L
Females < 50 years:	145 – 345 ”
Females > 50 years:	170 – 390 ”

Comments to the suggested reference intervals

The uncertainty of the limits justifies rounding off the figures.