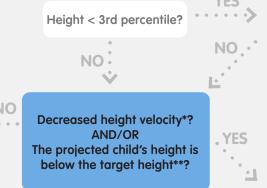
## When to Refer a Child for Suspected Growth Failure (≥ 2yr old)



NO REFERRAL TO

**ENDOCRINOLOGY** 

## Height ≥ 3 standard deviations below the mean?

(age 2-6 yrs: ht. plotted ~ 5 cm or more below the 3rd percentile age > 6 yrs: ht. plotted 7 cm or more below the 3rd percentile)

YES

REFER TO ENDOCRINOLOGY
AND CONSIDER OBTAINING
BONE AGE AND SCREENING LABS\*\*\*
BEFORE THE REFERRAL

- \* Decreased height velocity (HV):
- Age 2-4 yrs HV less than 5.5 cm/year
- Age 4-6 yrs HV less than 5 cm/year
- Age 6 yrs to puberty:
- ♦ HV less than 4 cm/year for boys♦ HV less than 4.5 cm/year for girls
- \*\* Projected child's height: it is determined by extrapolating the child's current height percentile up to the 18-20 yr mark on the growth chart.

Target height: the range included within 8.5 cm above and below the mid-parental height.

- \*\*\* Screening labs:
- CBC, Basic Metabolic Panel, ESR or CRP
- Urinalysis
- Celiac panel
- FT4, TSH, IGF-1, IGFBP3

