

Etiology and severity of congenital hypothyroid children detected through neonatal screening: a cut-off based analysis

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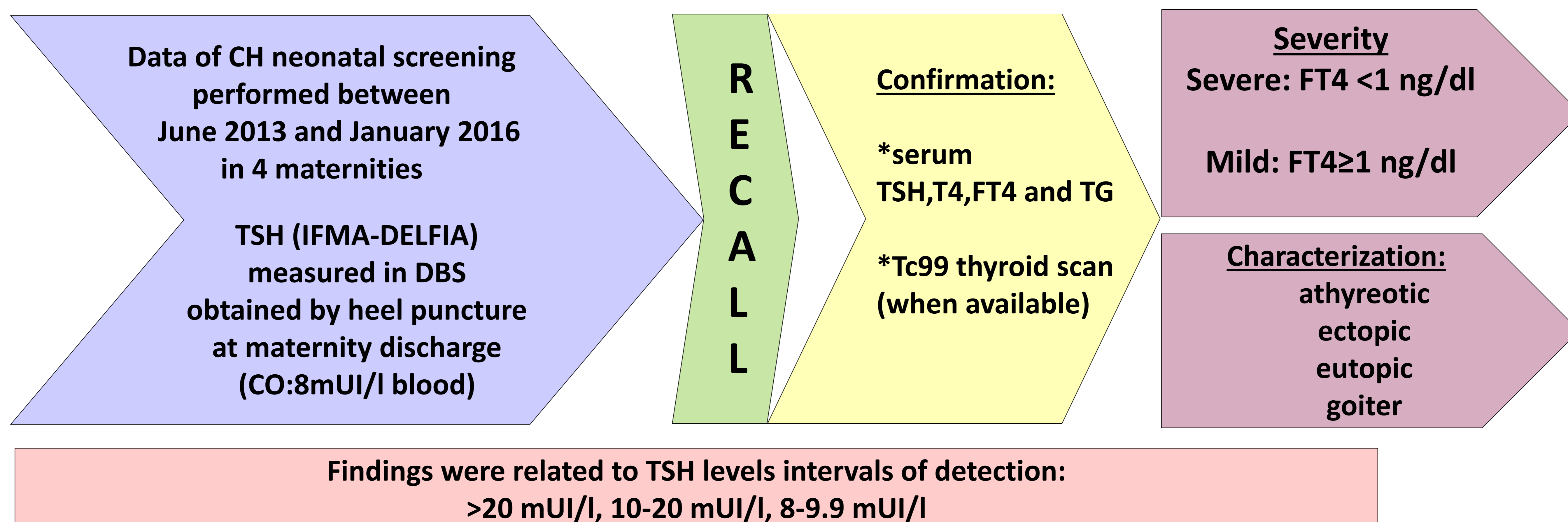
Background:

TSH cut-off (CO) levels for the detection of congenital hypothyroidism (CH) have been lowered progressively in many screening programs. Nevertheless, population detected with lower CO levels differs in severity and etiology.

Objective and hypotheses:

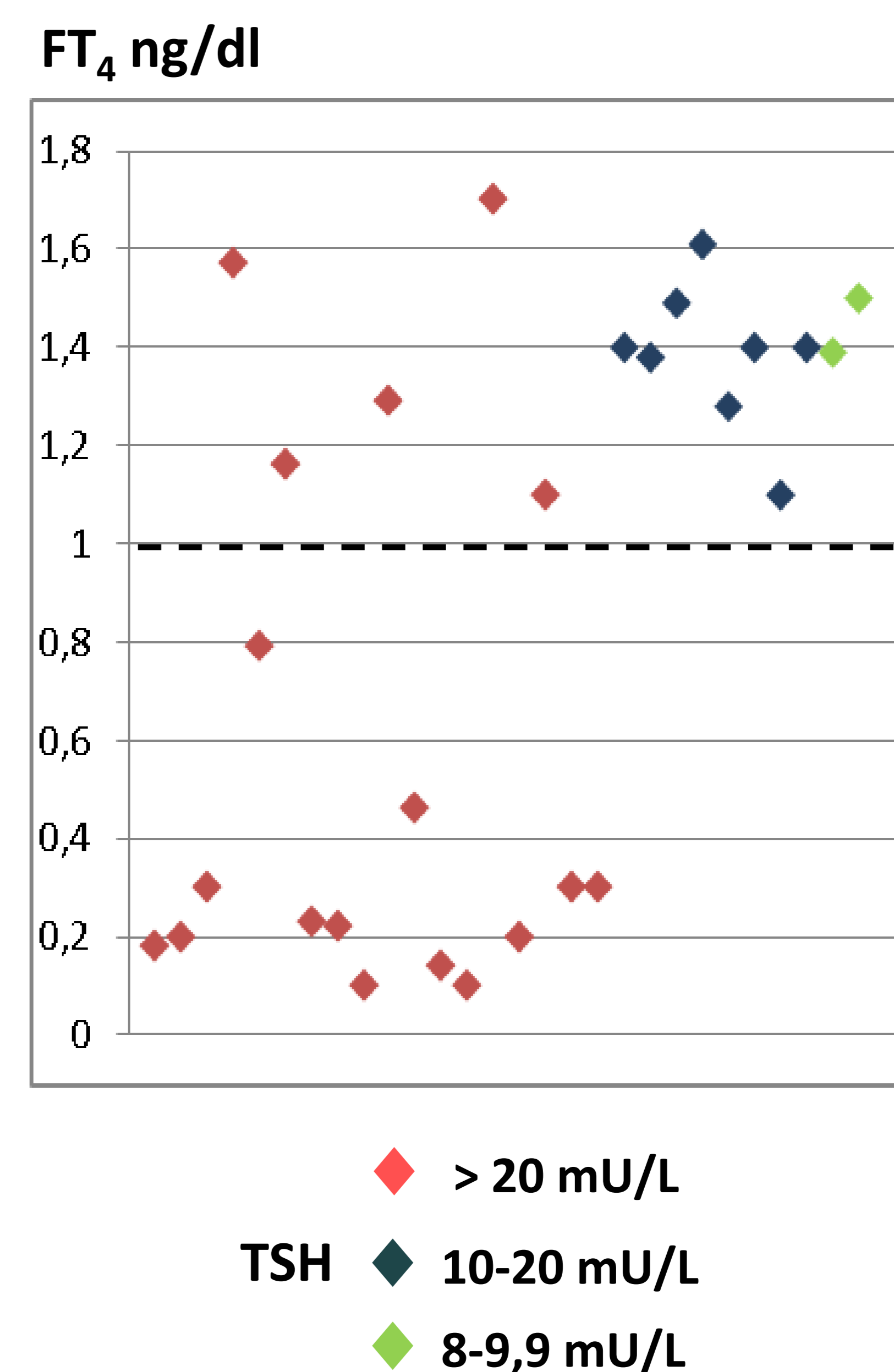
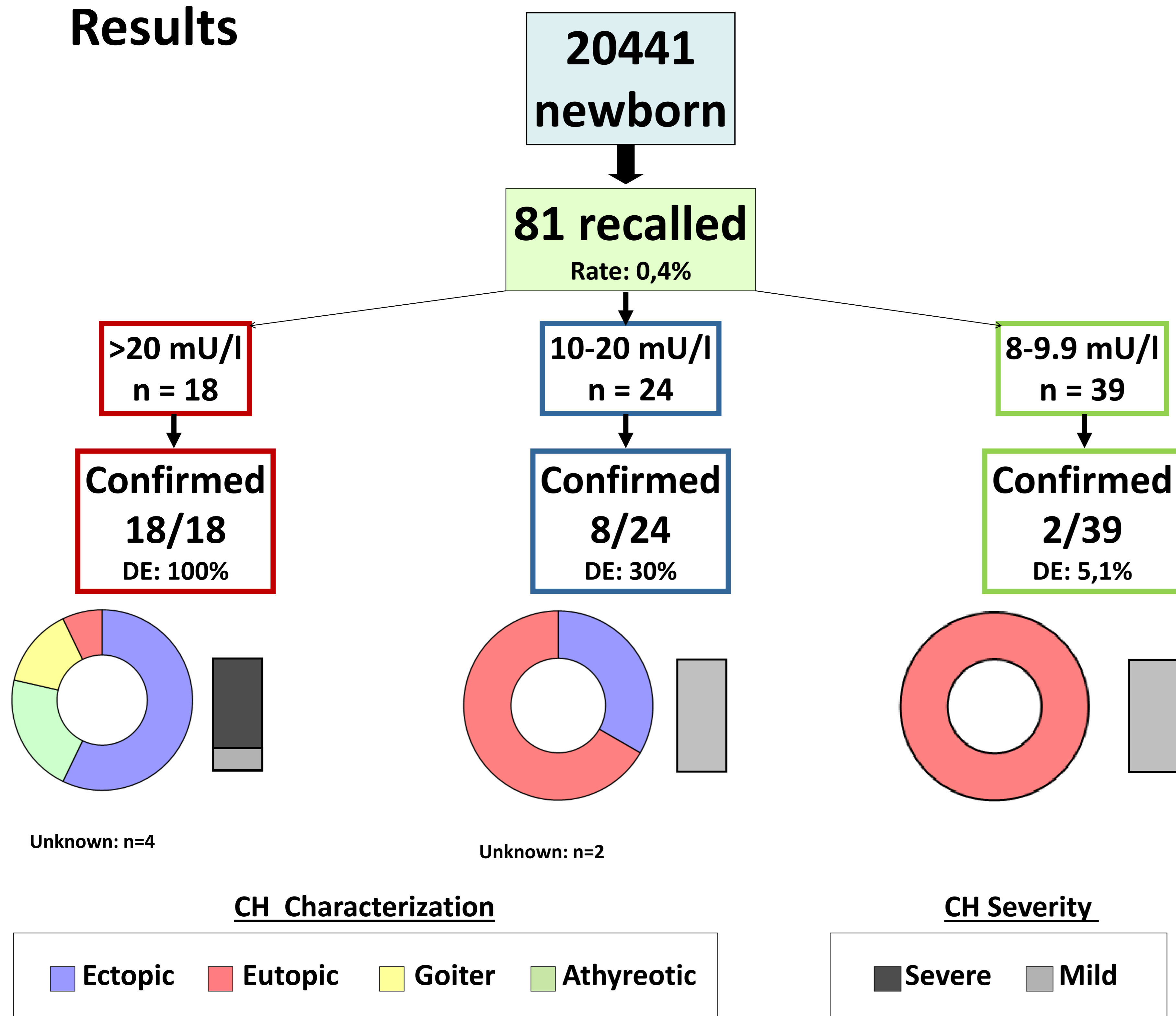
To describe the etiological characteristics and severity of children detected by neonatal screening related to CO TSH levels.

Methods



Diagnostic efficiency (DE) was calculated for each TSH interval.

Results



Conclusion

- While higher TSH levels allowed detection of patients with dysgenesis and severe disorders with better efficiency, lower CO identified mainly mild thyroid disorders.
- Further evaluation will allow the better characterization of the hypothyroid spectrum and to delineate adapted guides on detection and follow up.