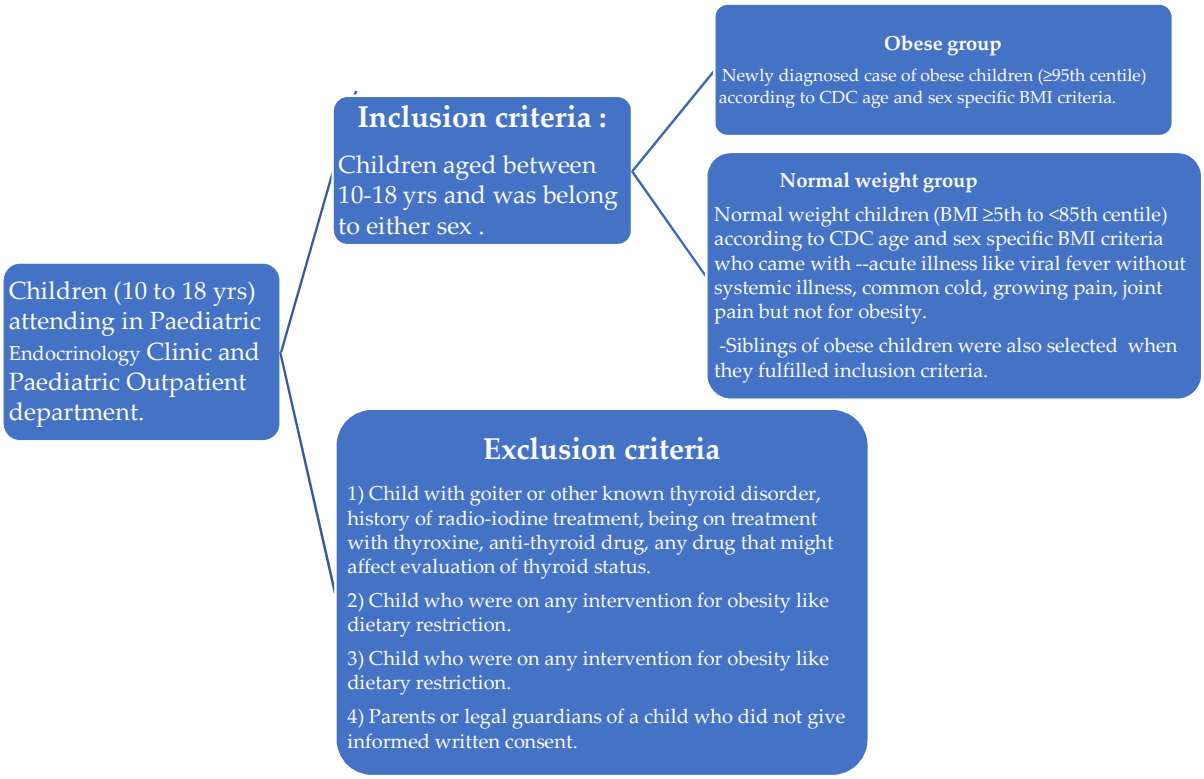

Children (10 to 18 yrs) attending in Paediatric Endocrinology Clinic and Paediatric Outpatient department.
Inclusion criteria :
Children aged between 10-18 yrs and was belong to either sex .
Obese group
Newly diagnosed case of obese children (≥95th centile) according to CDC age and sex specific BMI criteria.
Normal weight group
Normal weight children (BMI ≥5th to <85th centile) according to CDC age and sex specific BMI criteria who came with --acute illness like viral fever without systemic illness, common cold, growing pain, joint pain but not for obesity.
-Siblings of obese children were also selected when they fulfilled inclusion criteria.
Exclusion criteria
1) Child with goiter or other known thyroid disorder, history of radio-iodine treatment, being on treatment with thyroxine, anti-thyroid drug, any drug that might affect evaluation of thyroid status.
2) Child who were on any intervention for obesity like dietary restriction.
3) Child who were on any intervention for obesity like dietary restriction.
4) Parents or legal guardians of a child who did not give informed written consent.