

Syndrome	Associated endocrine disorders
Allan Herndon Dudley syndrome	<ul style="list-style-type: none"> • Abnormal thyroid hormone levels due to MCT8-transporter deficiency
Alström syndrome	<ul style="list-style-type: none"> • Obesity • Diabetes mellitus • Hypogonadotropic hypogonadism in males • Irregular menstrual cycle • Hypothyroidism • Hyperthyroidism
Angelman syndrome	<ul style="list-style-type: none"> • Obesity
Bardet-Biedl syndrome	<ul style="list-style-type: none"> • Noninsulin-dependent diabetes mellitus • Hypogonadism • GH deficiency • Hyperprolactinaemia • Structural pituitary abnormalities • Obesity • Subclinical hypothyroidism
Bordjeson-Forssman-Lehmann syndrome	<ul style="list-style-type: none"> • Obesity • Hypopituitarism • Gynaecomastia • Genital abnormalities
CHARGE syndrome	<ul style="list-style-type: none"> • GH deficiency • Hypogonadotropic hypogonadism • Osteoporosis • Genital abnormalities
Cockayne syndrome	<ul style="list-style-type: none"> • Hypogonadism • Abnormal glucose metabolism
Cornelia de Lange syndrome	<ul style="list-style-type: none"> • Hypogonadism
Costello syndrome	<ul style="list-style-type: none"> • GH deficiency • Hypothyroidism • Delayed or dysregulated puberty • Hyperprolactinaemia • Parathyroid adenoma • Hyperinsulinemic hypoglycemia
Jacobsen syndrome (11q terminal deletion)	<ul style="list-style-type: none"> • GH deficiency • Hypothyroidism

Kabuki syndrome	<ul style="list-style-type: none"> • GH deficiency • Obesity • Hypothyroidism • Hypoglycemia • Genital abnormalities
Klinefelter syndrome	<ul style="list-style-type: none"> • Diabetes mellitus • Obesity • Hypogonadism • Osteoporosis • Genital abnormalities
Neurofibromatosis type 1	<ul style="list-style-type: none"> • Increased risk of pheochromocytoma • GH deficiency
Noonan syndrome	<ul style="list-style-type: none"> • Male gonadal dysfunction • Hypothyroidism • Genital abnormalities
Prader-Willi syndrome	<ul style="list-style-type: none"> • Obesity • GH deficiency • Hypogonadism • Hypothyroidism • Diabetes mellitus type II • Central adrenal insufficiency (rare) • Hypothalamic deficiencies • Osteoporosis • Genital abnormalities
Rett syndrome	<ul style="list-style-type: none"> • Osteopenia
Sifrim-Hitz-Weiss syndrome	<ul style="list-style-type: none"> • Hypogonadism
Silver-Russel syndrome	<ul style="list-style-type: none"> • IGF-I insensitivity, pituitary hormone deficiencies (rare)
Smith-Lemli-Opitz syndrome	<ul style="list-style-type: none"> • Adrenal insufficiency • Hypo-aldosteronism • Genital abnormalities
Smith Magenis syndrome	<ul style="list-style-type: none"> • Obesity
Sotos syndrome	<ul style="list-style-type: none"> • Overgrowth
Tetra X syndrome (48, XXXX)	<ul style="list-style-type: none"> • Premature ovarian failure
Triple X syndrome (47, XXX)	<ul style="list-style-type: none"> • Premature ovarian failure

Trisomy 21	<ul style="list-style-type: none"> • Hypogonadism • (Subclinical) hypothyroidism • Increased risk for type I diabetes • Osteopenia • Osteoporosis • Overweight/obesity
Tuberous sclerosis complex	<ul style="list-style-type: none"> • Increased risk of neuroendocrine tumors
Turner syndrome	<ul style="list-style-type: none"> • Hypothyroidism • Hypogonadism • Obesity • Osteopenia or osteoporosis
Williams-Beuren syndrome	<ul style="list-style-type: none"> • Osteoporosis • Hypercalcemia • Hypothyroidism • Obesity • GH deficiency • Diabetes mellitus
48, XYY syndrome	<ul style="list-style-type: none"> • Hypogonadism • Type II diabetes • Hypothyroidism
16p11.2 deletion syndrome	<ul style="list-style-type: none"> • Obesity
22q11.2 microdeletion syndrome	<ul style="list-style-type: none"> • Hypocalcemia • Hypoparathyroidism • Hypothyroidism • Hyperthyroidism • GH deficiency (rare) • Obesity