

GRADE

1 • Strong

2 • Suggest For

2- • Suggest Against

Ungraded / Best Practice

1

Who to Test

- 1

Obtain a **thorough drug history** to exclude exogenous glucocorticoid exposure before any biochemical testing.
- 1

Test for Cushing's syndrome in: **unusual features for age** (e.g., osteoporosis, hypertension in the young); **multiple/progressive** features; children with **falling height percentile + rising weight**; or an **adrenal incidentaloma** compatible with adenoma.
- 1

Against widespread testing in any other patient group.

2

Initial Testing

- 1

Choose **one** initial test based on suitability: **24h urine free cortisol** (≥ 2 measurements), **late-night salivary cortisol** (2 measurements), **1 mg overnight DST**, or a **longer low-dose DST** (2 mg/d $\times$ 48h).
- 1

Against random serum cortisol or plasma ACTH, urinary 17-ketosteroids, insulin tolerance test, loperamide test, or cause-directed tests (pituitary/adrenal imaging, 8 mg DST) for initial screening.

3

Interpreting Results

- 1

Normal result + high pretest probability (incidentaloma, suspected cyclic disease): refer to endocrinology for further evaluation. **Any abnormal result**: refer to endocrinology to confirm/exclude.
- 2

Normal result + low pretest probability: re-evaluate in 6 months only if signs/symptoms progress.
- 1

Subsequent testing: repeat with another recommended test; dexamethasone-CRH test or midnight serum cortisol in specific situations. **Against** the desmopressin test outside research settings.
- 2

Concordant abnormal results $\rightarrow$ evaluate for cause; **concordant normal** $\rightarrow$ stop evaluation. **Discordant results** or suspected cyclic disease with high pretest probability $\rightarrow$ further evaluation and follow-up.

4

Special Populations

POPULATION	PREFERRED APPROACH
Pregnancy	Use UFC; against dexamethasone testing for initial evaluation
Epilepsy (enzyme-inducing AEDs)	Against dexamethasone testing (accelerated clearance) – use nonsuppressed cortisol in blood, saliva, or urine instead
Severe renal failure	1 mg overnight DST preferred over UFC for initial testing
Suspected cyclic Cushing's	UFC or midnight salivary cortisol preferred over DSTs
Adrenal incidentaloma (mild CS suspected)	1 mg DST or late-night cortisol preferred over UFC