

Stimulation Test Values

Low-Dose Dexamethason Suppressionstest (LDDS)

in case of suspected hyperadrenocorticism (Cushing).

Procedure:

1. Cortisol basal value – take a blood sample (Pre-suppression)
2. Low-Dose Dexamethason suppression test – inject 0.01 mg/kg Dexamethason i.v.
3. Cortisol Post-stimulation – take two blood samples, one 4 and one 8 h post injection

Pre-Suppression	4h Cortisol	8h Cortisol	Interpretation
1 – 6 µg/dl (28 – 166 nmol/l)	---	< 1.4 µg/dl (< 40 nmol/l)	Normal
	---	≥ 1.4 µg/dl (< 40 nmol/l) und < 50% of pre-suppression value	PDH*
	< 1,4 µg/dl (< 40 nmol/l) or < 50% of pre-suppression value	≥ 1.4 µg/dl (< 40 nmol/l)	PDH
	≥ 1.4 µg/dl (< 40 nmol/l)	≥ 1.4 µg/dl (< 40 nmol/l)	Cushing: PDH or adrenocortical tumor

Perform an HDDS test to differentiate
between PDH and adrenocortical tumor

High-Dose Dexamethason Suppressionstest (HDDS)

to differentiate between adrenal and pituitary dependent hyperadrenocorticism (Cushing)

Procedure:

1. Cortisol basal value – take a blood sample (Pre-suppression)
2. Low-Dose Dexamethason suppression test – inject 0.1 mg/kg Dexamethason i.v.
3. Cortisol Post-stimulation – take a blood sample 8h post injection

Pre-suppression	8h Cortisol	Interpretation
1 – 6 µg/dl (28 – 166 nmol/l)	< 1.4 g/dl (< 40 nmol/l) or < 50% of pre- suppression value	PDH
	≥ 50% of pre-suppression value	PDH or adrenal tumor

ACTH-Stimulationstest

in case of suspected hypoadrenocorticism (Addison's disease) or iatrogenic Cushing's disease.

Procedure:

1. Cortisol basal value – take a blood sample (Pre-ACTH)
2. ACTH-stimulation test – inject ACTH, i.e. 0.25 mg/dog i.v. Synacten®
3. Cortisol Post-ACTH stimulation – take a blood sample 1-1.5 h post ACTH-injection

Pre-ACTH	Post-ACTH	Interpretation
1 – 6 µg/dl (28 – 166 nmol/l)	≥ 24 µg/dl (≥ 662 nmol/l)	Cushing Syndrom
	19 – 24 µg/dl (524 – 662 nmol/l)	Grey area: Cushing syndrome possible
	8 – 18 µg/dl (221 – 497 nmol/l)	Normal
	< 8 µg/dl (< 221 nmol/l)	Iatrogenes Cushing Syndrom
	< 2 µg/dl (< 55 nmol/l)	Hypoadrenokortizismus

Please note: The clinical diagnosis must be carried out by the veterinarian in charge based on the measured results in the light of clinical symptoms and other test results.



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