

János Radó: Publication list of investigations with plasma and urine cortisol determinations (Mattingly method)

Investigations with plasma and urine cortisol determinations were carried out

I. in different clinical conditions (1-3)

II. to study the influence of several drugs (carbamazepine, triamterene, psychotropic compounds, spironolactone, canrenon, DDAVP, cloprednol) (4-11)

III. to determine the activity of an adrenocorticotrophin-like substance extracted from a mediastinal tumor of a patient with ectopic Cushing's syndrome (12)

IV. To compare the effect of a synthetic and standard ACTH drug preparation (13)

1. Borbely, L ; Rado, JP ; Tako, J ; Farkas, G ; Szabados, D
Studies on the effect of adrenal cortex hormones on hemophilia
FOLIA HAEMATOLOGICA 87 pp. 358-372. , 15 p. (1967)

2. Rado, JP ; Tako, J ; Szanto, Z
Aldosterone and cortisone requirement and metabolism in Addison's disease complicated by thyrotoxicosis.
ENDOKRINOLOGIE 52 pp. 12-21. , 10 p. (1967)

3. Rado, JP ; Tako, J
Adrenocortical insufficiency in spite of high corticosteroid excretion in a patient with thyrotoxicosis.
ENDOKRINOLOGIE 52 pp. 327-334. , 8 p. (1968)

4. Rado, JP
Falsely high fluorescence in cortisol determinations due to the carbamazepine.
HORMONE AND METABOLIC RESEARCH 5 p. 63 (1973)

5. Rado, JP ; Vegh, L ; Sawinsky, I

Interference of triameterene with cortisol determination in urine.
HORMONE AND METABOLIC RESEARCH 6 pp. 429-430. , 2 p. (1974)

6. Rado, JP ; Simon, T ; Juhos, E ; Tako, J ; Nagy, O
Interference of psychotropic drugs with cortisol determinations.
HORMONE AND METABOLIC RESEARCH 6 pp. 530-531. , 2 p. (1974)

7. Rado, JP ; Szende, L ; Tako, J ; Nagy, O
Use of a simple fluorometric 11-hydroxycorticosteroids assay in the
assessment of spironolactone-metabolite level in plasma and urine.
ENDOKRINOLOGIE 64 pp. 22-32. , 11 p. (1974)

8. Rado, JP ; Szende, L ; Tako, J ; Nagy, O ; Kozma, C
Application of a simple fluorometric method on absorption of canrenone.
INTERNATIONAL JOURNAL OF CLINICAL PHARMACOLOGY AND
BIOPHARMACY 13 pp. 123-126. , 4 p. (1976)

9. Rado, JP ; Juhos, E
Effect of 1-deamino-5-D-arginine vasopressin (DDAVP) on plasma cortisol
(hydrocortisone).
JOURNAL OF CLINICAL PHARMACOLOGY 16 pp. 333-337. , 5 p. (1976)

10. Rado, JP
Interference of bencyclan with 11-hydroxycorticosteroids determinations.
INTERNATIONAL JOURNAL OF CLINICAL PHARMACOLOGY AND
BIOPHARMACY 14 pp. 186-188. , 3 p. (1976)

11. Miskovits, G ; Rado, JP ; Toth, A ; Zolnay, E
Efficacy, safety and hypothalamic-pituitary-adrenal axis function in patients
with asthma treated with cloprednol.
RESPIRATION 38 pp. 345-352. , 8 p. (1979)

12. Marosi, J ; Radó, JP ; Salamon, F ; Cseh, Gy ; Hajós, Gy ; Szántó, S

Clinical observations in ectopic Cushing's syndrome caused by a mediastinal tumor; extraction of an adrenocorticotrophin-like substance from the neoplastic tissue and determination of its activity
In: Beers, RF; Basett, EG (szerk.) Polypeptide Hormones : [Based on a 3-day conference held at the Johns Hopkins Medical Institutions ...]
New York (NY), U.S.A. : Raven Press, (1980) pp. 155-162. , 8 p.

13. Radó, JP ; Marosi, J ; Takó, J ; Szántó, S ; Salamon, F
Effect of synthetic and standard ACTH on urinary hydrocortisone excretion as determined by fluorometry
In: Beers, RF; Basett, EG (szerk.) Polypeptide Hormones : [Based on a 3-day conference held at the Johns Hopkins Medical Institutions ...]
New York (NY), U.S.A. : Raven Press, (1980) pp. 97-103. , 7 p.

14. Radó J

A szintetikus ACTH humán farmakológiája és diagnosztikus használata

ORVOSKÉPZÉS 61 pp. 63-80. , 18 p. (1986)

The most relevant results of the investigations with plasma and urine cortisol determinations were

in a hemophilic patient and in a patient with Addison's disease complicated by severe thyrotoxicosis.

Drug studies led to important results. Recognition of falsely high fluorescence in cortisol determinations due to carbamazepine. The absence of such an influence in the case of triamteren and bencyclane. A simple fluorometric 11-hydroxycorticosteroids assay could be used in the assessment of spironolactone-metabolite level in plasma and urine.

Application of a simple fluorometric method on absorption of canrenone.

Stimulation of plasma cortisol level by DDAVP. Strong relationship between the adrenocortrophine-like substance (extracted from the mediastinal tumor of a patient with ectopic Cushing's syndrome) and cortisol production of the adrenal cortex. Determination of urinary cortisol

excretion can be used for comparison of the effects of synthetic and standard ACTH preparations.