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Use of Iodocholesterol Adrenal Scans in Cushing's Disease with Unilateral Renal Agenesis

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USE OF IODOCHOLESTEROL ADRENAL SCANS IN CUSHING'S DISEASE WITH UNILATERAL RENAL AGENESIS. J.A. Linfoot, J. McRae*, G. Connell*, E. Manougian* and J.L. Born*. Donner Laboratory, Univ. of Calif., Berkeley, California.

A 22-year-old male with hypertension, obesity, plethora and abdominal striae was found to have Cushing's disease with serum and urinary steroid studies initially consistent with bilateral hyperplasia. IVP's revealed a non-functioning left kidney. Isotope renal scan (99mTc-caseidin) and renal arteriography showed absent uptake and renal arterial supply on the left. Adrenal venography showed hypoplastic renal and bifid left adrenal veins. The right adrenal veins were not located. Adrenal cortisol (combined protein binding assay) effluents were IVC=17.8, left renal vein=30.2 and left adrenal vein=22.4 µg/100 ml. confirming the presence of functioning adrenal cortical tissue on the left and suggesting a slightly increased secretion from the left adrenal. Eight months later while awaiting therapy, the patient went into bio-chemical remission with a return of baseline, dexamethasone suppression and metyrapone tests to normal. After one millicurie of 19-iodocholesterol, both adrenal glands were visualized and the uptake at 8 days considered to be qualitatively normal. This case demonstrates the value of adrenal scanning in Cushing's disease with unilateral renal agenesis.

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EXAMPLES

COLD AGGLUTININ PRODUCT IN RABBITS. Nicolas Costea, Vincent Yakulis* and Paul Heller**. VA West Side Hospital, Chicago, Illinois.

Erythrocyte autoantibodies of the cold agglutinin (CA) variety have

BONE MARROW DISTRIBUTION IN MAN. C. P. Alfrey, Jr.*, Jeannette Pittman* and Duane Fuller* (intr. by Philip C. Johnson, Jr.) Dept. of Medicine, Baylor Univ. College of Medicine, and V.A. Hospital, Houston, Texas.

Pathological studies of marrow distribution in man have shown that

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