FACTSHEET HUMAN EXPERIMENTATION-86 (SFS9.001)

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**Project Name:** Trans-Sphenordal Hypophysical Destruction with Radioactive Yttrium

**Date Started:**
**Date Terminated:**

**Institution:** Argonne Cancer Research Hospital and University of Chicago
**Funding Source(s):**

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**Identification:**
**Project Duration:**
**Principal Investigator(s):** Robert D. Moseley, William M.S. Ironside, & P.V. Harper

**Responsible Government Official(s):**

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**Objective(s) of Project:** To evaluate yttrium-90 pellet implants for treatment of cancer.

**Short Description:** Utilizing simultaneous biplane fluoroscopic image intensifier control, small 1-mc $Y^{90}$ pellets have been introduced into the hypophysis via the pre-nasal transsphenoidal route. Generally, eight pellets have been used in a single plant implant with an anterior and posterior row of pellets 4mm apart and with each pellet in a row 4mm from the ones adjacent to it. This distribution produces a rather homogeneous interstitial beta radiation of 200,000 rads. Patients with neoplasma susceptible to hormonal modulation, notably metastatic breast and prostate carcinoma, have been treated by this method.

**Follow-up Data:**

**References:** N.S.A. 14543

**Attachment(s):**