
A number of adult female rats of the Sherman strain were castrated, and one ovary was transplanted to the spleen. After about 2 weeks, rats showing estrous reactions were discarded. The others were kept on a complete diet for about 11 months thereafter. At the end of this time 9 animals remained; of these, 6 were completely anestrous, and 3 gave smears showing an occasional estrous reaction. Visualization of the spleen was considerably enlarged. Histologically, all transplanted ovaries were greatly hypertrophied and composed of masses of theca cells. Three large tumors were found, apparently of the granulosa cell type, and in 2 other tumors there were smaller nodules of the same cellular structure. The uterus, vagina, and pituitary body showed the type of atrophy associated with castration.—M. B.


Samples of transmissible fowl lymphoid tumor grown in pectoral muscle were excised aseptically, minced, and placed in pyrex glass or lusteroid tubes. The samples were frozen by immersing the tubes in 95% ethyl alcohol and lowering the temperature between 0 °C. and -20 °C. In a previous study it appeared that the sera of women with malignant neoplastic disease strongly agglutinated “folic acid concentrate” in 6 experiments on 117 mice, and with L. casei factor in 10 experiments on 364 mice. An analysis is given of feminization in 6 cases of adenocarcinoma of the testis of dogs, collected from the literature. Protocols and discussion of experiments in which dogs were given stilbestrol and other estrogens are also presented.—J. G. K.


A testicular seminoma of the sertolian type which occurred in one of 130 male dogs studied is described. Attention is called to the fact that canine seminomas can be traced to the seminiferous epithelium and are not of teratomatous origin.—Author’s summary.

Clinical and Pathological Reports


In a previous study it appeared that the sera of women with malignant neoplastic disease strongly agglutinated proteus organisms, and it was thought this agglutina-
Cancer patients in general are poor operative risks. A thorough evaluation of the patient's clinical status should include the potentialities (pathologic, radiotherapeutic, and surgical) of the tumor itself. Emphasis during the post-operative period should be on prophylaxis of complications, mainly atelectasis, ileus, and shock. — M. E. H.

FEATHER GERM REACTION TO URINE FROM PATIENTS WITH CANCER AND OTHER CONDITIONS. A PRELIMINARY STUDY. JUHN, M. [Maryland Agric. Exper. Station, Univ. of Maryland, College Park, Md.] Arch. Path., 37:383-386. 1944.

The pigmentation reaction of the growing feather germ of the Brown Leghorn capon was used to record the effects of injected urines from cancerous, other pathologic, and normal subjects. Positive and negative reactions were obtained from various individuals in all 3 groups. — J. G. K.

THERAPY—GENERAL.


The author states that 10 patients having malignant growths of various kinds, as proved by pathologic examinations, were chosen for study and treatment. Three of the patients were given avidin therapy alone, while in the others roentgen ray therapy or surgery was employed in addition to the egg white treatment.

Two cases (one a carcinoma of the stomach, and the other a carcinoma of the breast with metastasis) are only mentioned; brief details are given of the remaining 8 patients, of whom 1 (with carcinoma of the lung) died 10 months after egg white and roentgen ray treatment had been instituted. The rest seemed to show some improvement in "general condition." In 1 patient (with carcinoma of the tongue) there seemed to be some regression in the size of the primary growth, though the regional nodes did not change in size; in another patient (with metastatic squamous cell carcinoma in the neck), given concentrated avidin in amounts up to 2,000 units per day during 4 months, the tumor finally increased in size and ulcerated through the skin. There was no effect on the leukocyte level in the 2 cases of leukemia.

Some of the patients received a total of more than 12,000 egg whites; none developed signs of biotin deficiency.

The author states in conclusion that "as yet no definite cure of cancer has been brought about through the use of egg white therapy . . . in a selected group of cases." He feels, however, that the avidin therapy may have played a beneficial role in some of the cases, and that the method of treatment might be improved if a definite biotin deficiency could be induced. He makes no mention of the fact that certain transplanted tumors will grow readily in animal hosts that manifest severe induced biotin deficiency, as shown by West and Woglom (Cancer Research, 2:324-331. 1942). — J. G. K.


Cancer patients in general are poor operative risks. A thorough evaluation of the patient's clinical status should include the potentialities (pathologic, radiotherapeutic, and surgical) of the tumor itself. Emphasis during the post-operative period should be on prophylaxis of complications, mainly atelectasis, ileus, and shock. — M. E. H.

BREAST


The author is investigating the Bittner factor by feeding mice of a low mammary cancer strain on human mammary carcinoma, and he asks for milk from any woman who has, or has had, mammary carcinoma for similar feeding experiments. — E. L. K.


Brief mention is made of certain benign tumors, and there is a more extensive discussion of the etiology or diagnostic features of chronic mastitis, fibroadenomas, cystic disease, papillomas, tuberculosis, Paget's disease, sarcoma, and carcinoma. Hereditary predisposition to breast carcinoma is noted. — E. E. S.


It is stated that proof is lacking that earlier and more radical breast amputations are obtaining a commensurate longevity for the patient. It is suggested that many patients need only be subjected to a simple mastectomy. Mention is made of various series of surgically treated cases, but the actual references are not given. The author believes that preoperative and postoperative irradiation alters the survival rate very little. The conclusion is reached that until better procedures are developed, the present axillary dissection is still the best radical operation even though paths of spread of the cancer, other than through the axilla, are not checked. — E. E. S.


The difficulty in evaluating reports on various modes of therapy, when there is such great diversity in the type and extent of the tumor being treated, is discussed at length. A classification of breast cancer based on clinical and pathological criteria is offered, and an analysis of 1,022 unselected cases is used to illustrate the applicability of this classification. The conclusion is reached that irradiation therapy is preferable to radical mastectomy for patients with one or more clinical manifestations listed as criteria of incurability. — E. E. S.


Descriptions of cases. — E. L. K.

In an aged patient with senile psychosis, true hermaphroditism was confirmed by the demonstration of a right ovotestis and left scrotal testis. Secondary sexual characteristics were of feminine type. In the left breast there was a primary adenocarcinoma.—J. G. K.

**FEMALE GENITAL TRACT**


After a brief mention of ovarian tumors in general, the author discusses the etiology, classification, symptoms, diagnostic features, and treatment of endometriosis of the ovary and other organs. For therapy of endometriosis, resection is recommended except in widespread involvement of the rectum and rectovaginal septum where roentgen therapy is regarded as the safer procedure.—E. E. S.


A case report. Necrosis or acute degeneration of a uterine fibromyoma during pregnancy is rare.—M. E. H.


Of 3,570 cases of carcinoma of the cervix seen at the Mayo Clinic during a period of 32 years, pregnancy was present in 26. The average number of previous pregnancies was 6, and the average number of children was 4. The number of pregnancies did not affect the prognosis. When the carcinoma was diagnosed in the later months of pregnancy, the lesion was well advanced and the prognosis poor. Pregnancy may occur after carcinoma of the cervix has developed. A family history of carcinoma was elicited in 7 of 20 cases of pregnancy seen by Maino and Mussey. Leukoplakia preceded almost all cases of carcinoma of the vulva.

In contrast to the preferred treatment for non-pregnant patients, operation is felt to be the treatment of choice if the lesion is operable, with supplementary irradiation therapy. If the extent of the lesion permits operation and the fetus is not yet viable, total hysterectomy followed by irradiation is recommended. If the lesion is operable and the fetus viable, the procedure is cesarean section followed by panhysterectomy and postoperative irradiation. When the lesion is non-operable and the fetus viable, cesarean section is followed by irradiation; in cases in which the fetus is not yet viable, sufficient irradiation is employed to treat the tumor and incidentally abortion occurs.

In cases in which the lesion was operable, total abdominal hysterectomy produced the best results. In 57% of the cases where this procedure was employed patients were free of recurrences 5 years after operation.

The prognosis seemed to be at least as favorable in carcinoma of the cervix associated with pregnancy as in those cases not thus associated.—A. K.


Report of 3 cases. The lesions were treated with x-ray and radium.—M. E. H.


Local eosinophilia was observed in 7.7% of a series of 309 cases of epidermoid carcinoma of the cervix. The possible meaning of the finding is discussed.—J. G. K.


Bonney has observed that leukoplakia precedes almost all cases of carcinoma of the vulva.

The discussion related essentially to the differential diagnosis of a number of causes of vulval pruritus. These included leukoplakic vulvitis, lichen planus, lichen sclerosus, lepidois vulvae, kraurosis, vulval psoriasis, various types of intertrigo, localized scleroderma, vitiligo, and monilia infections. Treatment was by pelvic diathermy, by estrogenic therapy, and by radiotherapy, combined with dermatological measures and relief of concomitant B. coli infection.—L. W. P.

**GASTROINTESTINAL TRACT**

**Secondary Carcinoma of the Esophagus as a Cause of Dysphagia.** Toreson, W. E. [McGill Univ., Montreal, Canada.] Arch. Path., 38:82-84. 1944.

An analysis of 26 cases.—J. G. K.


The differential diagnosis of achalasia, carcinoma of the esophagus or of the fundus of the stomach, and Zenker’s diverticulum is discussed. Proved malignant neoplasm was discovered in 5 instances in this series of 40 patients, although after roentgen examination and esophagoscopy the condition had been diagnosed as achalasia. This represents an error of approximately 13%. In these cases, carcinoma is usually suspected, although diagnosis is difficult.—M. E. H.


Report of a case in a male aged 27. The tumor is described as a round-cell sarcoma, but its origin is indefinite. The radiological appearances are said to be characteristic—a filling defect with regular contours, a normal or exaggerated mucosal pattern, and persistence of peristalsis.—L. W. P.


Case report.—W. A. B.
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