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THE AMERICAN AW WEEKLY

Greatest
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Week of June 2, 1946



Painting by Willy Pogany—**Aucassin and Nicolette**—The World's Most Poetic Romance Retold by John Erskine

NICOLETTE, at the break in the dungeon wall, heard Aucassin praise her beauty and knew he loved her. She answered clearly: "Gentle knight, I flee to a far land, beyond your father's wrath. Never may you have joy of me, nor I of you." She snipped off a golden curl and dropped it into his outstretched hand. He held it tight, and threatened to kill himself if she left him.

"Aucassin," said she, "do not exaggerate. I love you more than you love me."
"Now that is absurd," said he, "no woman can love as a man loves, for man's love is rooted in his heart."
Before she could answer, the tramp of the guards came down the street, their swords ready to make an end of her as Count Garin had ordered.

But a friendly sentinel warned her just in time, whereupon she hid until the guards had passed. Then taking farewell of Aucassin, she climbed the wall and made her way over the moat. The wild forest stretched before her and she had nowhere else to go.
(Next week Mr. Erskine continues the romance of the despairing lovers.)



Foe of Cancer, Goitre and Leukemia

By Win Brooks

THE terrible diseases which afflict mankind—cancer, toxic goitre and leukemia—may be wiped out eventually or brought under control by medical means which produce the atomic bomb.

Radiactive iodine already is being successfully used in the treatment of toxic goitre (Bazex disease). Permanent cures, without recourse to surgery, seem to be indicated.

Experimental treatment of cancer cases through the use of radioactive substances is promising. Experiments in leukemia cases in date have consisted merely of palliative treatment and while no cure can be reported advances are being made.

The atom smelting cyclotron at Massachusetts Institute of Technology is being used to make radioactive medicine in which great physicians and great scientists place great hopes, but the process is long and extremely expensive and the supply of material is extremely limited.

Results of that meeting are constructive of Tech's cyclotron and the first production of radioactive iodine for experimental use on rabbits. The thyroid gland, which causes goitre, was found to absorb within five minutes all the iodine it could hold. Many times as much iodine went to the thyroid gland as to any other part of the body.

This iodine, alive with radioactivity, went almost immediately to the seat of goitre and its beta rays began a bombardment of the diseased gland. The dose acted as a medicine gun on the goitre to disintegrate it.

Dr. Hertz and his associates reported with Tech for the production of radioactive iodine in the cyclotron. When Dr. Hertz entered the Navy as a commander in 1942, 22 patients had been treated with radioactive iodine at his Massachusetts General Hospital clinic. Most of these were women suffering from toxic goitre. Excellent results in the earliest cases were reported in 1942 and confirmation of the

work of Dr. Hertz and Roberts came from California Institute of Technology, where radioactive iodine also was used.

When Dr. Hertz returned to the Navy, Dr. Chapman was chosen to head the Massachusetts General Hospital thyroid clinic, follow the cases begun and started the treatments. Twenty-two new cases of toxic goitre were treated in 1943.

Among patients were two years from the onset of cancer later treated with the radio-iodine. The other group, winning the battle early, the other group, the physical progress of goitre was checked and cure in all symptoms of hyperthyroidism.

Dr. Karl Hertz, at that time only 30 years of age, had already established at head of the thyroid clinic at Massachusetts General Hospital and a research associate at Harvard and M.I.T., was among those present. Other great medical and scientific men who were immediately impressed included Dr. J. H. Mearns, Dr. Arthur Roberts, a nuclear physicist; Dr. Karl M. Chapman, another great thyroid specialist, and Dr. Robley Evans, Tech professor who later assumed charge of the M.I.T. cyclotron program.

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Dr. Karl Hertz

Radiactive iodine is naturally occurring. The most common has no effect on the patient. A larger dose sometimes causes a brief spell of nausea. Hospitalization of the patient is not necessary except for rest.

As with the sulfa drugs and penicillin, and more recently with streptomycin, a tremendous public demand is expected to develop for radioactive iodine after the next development in the fields of cancer and leukemia, for other radioactive medicines. But unless the government decides to use uranium as a life source, instead of as a life-sustaining medical science will be unable to respond.

Other advances in atomic medicine will be reported by The American Weekly. How radioactive iodine has saved a victim of cancer of the thyroid will be described next week.



Cured of Goitre With One Dose

By Anna D. Dang



It is hard to find and recognize a woman's face. My husband was tremendous and a dark, heavy-lidded man. The first thing I saw of him was a dark, heavy-lidded man. The first thing I saw of him was a dark, heavy-lidded man.

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In an attempt to stop being weighty I began to eat large meals, twice as much as I normally ate. My associates were tremendous and a dark, heavy-lidded man. The first thing I saw of him was a dark, heavy-lidded man.

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It was I, and Dr. Hertz, who first mentioned the word "radio-iodine" to me. I had been told that it was a dark, heavy-lidded man. The first thing I saw of him was a dark, heavy-lidded man.

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By Win Brooks



THREE terrible diseases which afflict mankind—cancer, toxic goitre and leukemia—may be wiped out eventually or brought under control by medical advances in the field of nuclear physics which produced the atomic bomb.

Radioactive iodine already is being successfully used in the treatment of toxic goitre (Graves disease). Permanent cures, without recourse to surgery, seem to be indicated.

Experimental treatment in cancer cases through the use of radioactive substances is promising. Experiments in leukemia cases to date have consisted merely of palliative treatment and while no cure can be reported advances are being made.

The atom-smashing cyclotron at Massachusetts Institute of Technology is being used to make radioactive medicine in which great physicians and great scientists place great hopes, but the process is long and extremely expensive and the supply of materials is extremely limited.

Radioactive iodine is produced in the cyclotron by smashing atoms of tellurium, a non-metallic element analogous to sulphur.

The radioactive iodine resulting from a full night's work of the cyclotron staff is an amount which will hardly fill a cocktail glass! Sometimes one radioactive iodine cocktail will cause a goitre and the symptoms of goitre to vanish.

But the point is this: if the government would release the highly radioactive uranium from its atomic bomb stockpiles, sufficient radioactive iodine could be produced, comparatively cheaply, to treat every case of toxic goitre in the country!

As recently as March, in a Boston address touching upon the use of radioactive iodine, Dr. Karl T. Compton, president of Massachusetts Institute of Technology, said:

"Probably the greatest uranium piles which have been designated in connection with the atomic bomb development and

which give off enormous quantities of radiation may supply a new radiation tool for medical science."

It was another address by Dr. Compton ten years ago which launched the production of radioactive iodine for medical use in goitre treatment. Dr. Compton asked tools, and scientists to join in research with beta rays was discussed.

Dr. Saul Hertz, at that time only 30 years of age but already established as head of the thyroid clinic at Massachusetts General Hospital, and a research associate at Harvard and M.I.T., was among those present. Other great medical and scientific men who were immediately impressed included Dr. J. H. Means, Dr. Arthur Roberts, a nuclear physicist; Dr. Earl M. Chapman, another great thyroid specialist, and Dr. Robley Evans, Tech professor who later assumed charge of the M.I.T. cyclotron program.

Result of that meeting was construction of Tech's cyclotron and the first production of radioactive iodine for experimental use on rabbits. The thyroid gland, which causes goitre, was found to absorb within five minutes all the iodine it could hold. Many times as much iodine went to the thyroid gland as to any other part of the body.

Thus iodine, alive with radioactivity, went almost immediately to the seat of goitre and its beta rays began a bombardment of the diseased gland. The dose acted as a medicine gun on the goitre to disintegrate it.

Dr. Hertz and his associates negotiated with Tech for the production of radioactive iodine in the cyclotron. When Dr. Hertz entered the Navy as a commander in 1943, 29 patients had been treated with radioactive iodine at his Massachusetts General Hospital clinic. Most of these were women suffering from toxic goitre. Excellent results in the earliest cases were reported in 1942 and confirmation of the

work of Drs. Hertz and Roberts came from California Institute of Technology, where radioactive iodine also was used.

When Dr. Hertz entered the Navy, Dr. Chapman was chosen to head the Massachusetts General Hospital thyroid clinic, follow the cases begun and extend the treatments. Twenty-two new cases received radioactive iodine under his direction.

Among goitre patients, two young men, one of whom later served with the Army, winning five battle stars. The other served in the Navy. In another case, the physical presence of goitre vanished and nearly all symptoms of hyperthyroid condition disappeared one month after the patient, a young mother of two children, swallowed one small dose of radioactive iodine.



Dr. Saul Hertz

Medical science is slow to claim complete cure of goitre by radioactive medicine. All cases in which a cure appears to have been effected remain under observation on the possibility that the growth may again begin as it sometimes does.

Radioactive iodine is virtually tasteless. The small "cocktail" has no ill effect on the patient. A larger dose sometimes causes a brief spell of nausea. Hospitalization of the patient is not necessary except for research.

As with the sulfa drugs and penicillin, and more recently with streptomycin, a tremendous public demand is expected to develop for radioactive iodine and, as research develops in the fields of cancer and leukemia, for other radioactive medicines. But unless the government decides to use uranium as a life-saver—instead of as a life-annihilator, medical science will be unable to respond.

Other advances in atomic medicine will be reported by The American Medical Association. How radioactive iodine has saved a gland of a victim of cancer of the thyroid will be described next week.

