



YOUNGEST EVER AT BISLEY SHOOT

Bill Berton, 15-year-old Winnipeg marksman is pictured at Bisley, England, where he is competing for the Queen's Prize. During the Saturday Daily Telegraph competition match he scored 47 out of a possible 50 points. He is the youngest of 1,200 British and Commonwealth

marksman competing and the youngest to shoot for the prize since Queen Victoria established it in 1860. (AP Wirephoto via radio from London).

Cancer Researchers Envision Vaccines Within 5 To 10 Years

By ALTON BLAKESLEE Associated Press Science Writer
NEW YORK (AP)—One day you may take a daily pill to prevent major cancers. And take shots of vaccine to prevent leukemia, as you do against polio.
When? Optimistically within five to 10 years.
The heartening fact is these are serious goals envisioned now by top cancer researchers. Others are driving toward another objective — strengthening the body's natural defenses against cancer.
And meanwhile there is a good deal a person can do by and for himself to escape the lethal disease.
"Discovery is our business," reads the motto on the wall of the University of Chicago laboratories of Dr. Charles Huggins, renowned researcher who pioneered the use of hormones in controlling some cancers.
PILLS DISCOVERED
He and associates have discovered pills that prevent breast cancer in rats.
The rats always get breast cancer three weeks after eating a meal containing a cancer-causing chemical, nicknamed DMBA. But if they take the pill a day before taking the DMBA, they are completely protected.
The protector pills are naphthalene and azoxaphthalene, in pinpoint amounts, just a few micrograms. Dr. Huggins thinks they work, in part, by coating the DNA of living cells, acting as a kind of shield against the arrow of DMBA.
DNA is shorthand for deoxyribonucleic acid. The genes that control the destiny of cells are believed to be composed of DNA molecules, arranged in precise sequences or code form.
In ten years, we may have our own cancer protectors, to take in daily pills, to make us immune to cancers caused by hydrocarbons," says the white-haired, soft-spoken scientist.
PEOPLE EXPOSED
DMBA is a hydrocarbon, and humans are exposed to it and to many similar chemicals in tobacco smoke, in soot, in some

lung cancer, and also many very large and growing number.

MUCH WORK AHEAD

A step has been taken in the DMBA experiments, he feels, toward a principle of protection. But there are years of work ahead to find powerful yet safe chemical protecting agents to shield humans against chemically-induced cancers.
A vaccine against leukemia, and perhaps other types of cancers, may well come earlier. "It is an confident a virus or viruses of human leukemia will be isolated soon—if it has not already been done," says Dr. Hames T. Grace, Jr., of Roswell Park Memorial Institute, Buffalo, N.Y.
"It might turn out to be a very common virus harbored by most people, but with only a few becoming victims of it," he said. "A vaccine could then be prepared against it."

Such a vaccine could create protective antibodies to prevent the leukemia virus from acting to change some DNA into a cancer-causing gene.

MAY BE COMPLEX
The problem might turn out to be more complicated than that—if, for example, the causative virus was already an intimate part of the genetic machinery, just sleeping there so to speak until some event stirred it into action.

Even then, there are possibilities of creating a shield that bit of the DNA or gene from ever acting up, and causing leukemia or other cancers.
"If some virus does cause leukemia, there is absolutely no evidence that it is contagious, passing from a patient on to other persons," says Dr. Sidney Farber of Children's Hospital in Boston. "Only a very tiny percentage of people ever develop leukemia. Leukemia or other forms of cancer are not known to be catchable, but all present evidence."

Most people never get obvious cancer of any kind. The puzzle really is why a rather small percentage is victimized.

Part of at least of the answer could lie in natural body defenses.
EVERYONE GETS CANCER?
It has been suggested that almost everyone starts getting cancer once or several times during his lifetime. But natural defenses may overwhelm the few cancer cells before they become irreversibly independent and just keep growing and growing.

Natural defenses could explain in part why a handful of persons with proven cancer undergo spontaneous cures. Medical authorities have gathered an international list of about 130 such cases of "spontaneous cure."

Something obviously goes amiss once a cancer takes hold. One idea is that the patient's defensive or immune mechanism becomes deficient in some way.
Another is that the cancer itself produces some chemical agent which depresses the immune reaction, or the ability to resist the "foreign" and undesirable tissue.
At Roswell Park, Drs. John

The Guardian, Charlottetown, Mon. July 13, 1964.

Selective Steering Urged For Enticing Firms To N.S.

HALIFAX (CP) — A commerce professor says any broad approach by the federal or provincial governments or their agencies to induce a cross-section of the manufacturing industry to come to Nova Scotia by offering subsidies to make good any cost disadvantage due to location would be "prohibitively expensive."
R. E. George, associate professor of commerce at Dalhousie University here, suggests efforts to steer industry operations to this province might better be directed selectively towards those industries for which site is best suited.

and Ruth Graham, husband and wife, are beginning to narrow down what that kind of cancer-producing abating agent might be. They hope to isolate it.

If they can, then they might find an anticancer agent. To restore the person's own normal and even curative defence mechanism against his own cancer. And, as a byproduct, the suppressive agent (made by cancer itself) might itself be used to help make transplanted or borrowed organs, such as a kidney or liver or gland, take or survive in a person who needs to borrow a living organ.
Thus on many fronts goes the struggle against cancer, by literally thousands of men and women hunting for and only at times finding clues to the great puzzle.

up of women had especially favorable rates.
Cost of materials was about two per cent more in Nova Scotia, due chiefly to higher transportation charges.

The cost of transporting manufactured goods from Nova Scotia to Canadian markets was, on the average, about 25 per cent higher than if those markets were supplied from Ontario or Quebec. However, as product transportation accounted for only three per cent of all costs, a typical Nova Scotia firm "is worse off by less than one per cent on this account."

DIFFERENCE IN COST
He said the "really important" differences between the provinces are in the cost of labor and product transportation. Firms with less mechanized operations that consequently require a lot of labor—particularly if the work is suitable for women and whose products are light compared with their value," would normally be better off in Nova Scotia.

These firms usually could make and ship from Nova Scotia to the main Canadian and foreign markets at lower cost than if production was carried on in Ontario or Quebec.

He said the opposite is true where a firm's processes are highly mechanized and its products heavy compared with their value. Such firms would be better off if they concentrated production in Ontario or Quebec.

The study showed wage rates for Nova Scotia employees varied between 70 and 100 per cent of rates for similar jobs in Ontario and Quebec. "Women's rates were particularly low in Nova Scotia so that firms whose labor forces were mainly made

manufacturing firms not necessarily producing in Canada was considering whether to set up a factory in Nova Scotia or in Ontario or Quebec.

Executives of companies established in larger Canadian cities did not often welcome the prospect of moving to the Maritimes and hostile feelings were reciprocated by many Maritimers.
"In time, however, one would expect that frictions and prejudices would be overcome and firms which would be better off in Nova Scotia would gradually drift there."

Probably the greatest contribution that could be made would be to "dispel some of the profound ignorance of Nova Scotia that is evident outside the Maritimes and so cause firms to be aware of the opportunities that exist in that province," Prof. George said.

KENSINGTON

Wayne MacDonald, Winsloe, P.E.I., is visiting his aunt and Mrs. Elmer Burt, Kensington.

Donnie and Elizabeth Crossman have returned to their home at Bedouque after spending the past week at Kensington, guests of their uncle and aunt, Mr. and Mrs. Fred Pollard.
Mrs. Lloyd Doucette has made a good recovery from minor injuries received in a recent car accident.

Relatives in Kensington have received the news that Gerald (Jerry) Bernard, a member of the RCAF, has been transferred from Camp Borden to Naino Airport near Edmonton, Alta., and he and his wife have moved to that location.
Guests of Mrs. Bessie C. Mac-

kay, Kensington, are her grand-daughter, Mrs. Ned Dwyer, Mr. Dwyer and their two sons, Paul and Richard.

William Campbell has returned to his home at Charlottetown after spending a week at Kensington, guest of his brother-in-law and sister, Mr. and Mrs. Marshall Murphy.
Mrs. John Tredon, Burlington, has entered the Prince County Hospital, Summerside, where she is receiving treatment.
Everett DesRoche, Charlottetown, is spending a vacation at the home of his brother, Arthur DesRoche, Long River.



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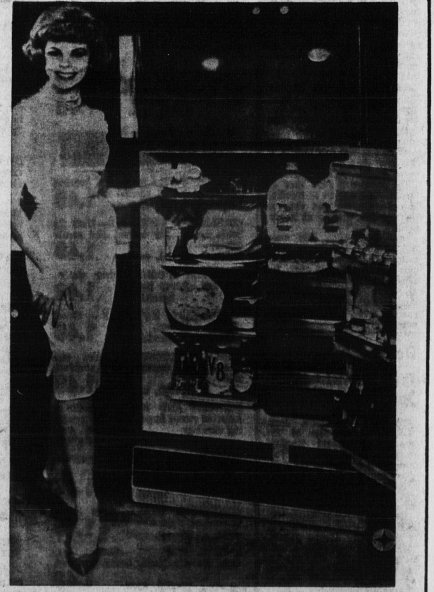
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