

# Doctor Explains Work of Polio Virus; Hopes for Great Reduction in Case Load

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Paralysis

Almost all of us are infected by the polio virus at one time or another. Generally, we don't even know we have the infection. We may feel perfectly well, or we may have a sore throat or an upset stomach.

Sometimes, however, the polio virus does serious damage. It attacks the central nervous system, destroying nerve cells and causing paralysis.

If almost everyone is attacked by the virus, there must be an important reason why some people succumb and some do not. There is.

**Battle in Bodies**  
The critical battle in the fight against polio takes place, as it always has, in the bodies of human beings. It is a battle between the polio virus and tiny particles, called antibodies, which can destroy the virus in the blood stream.

When an individual is infected by the polio virus, the virus enters his system and begins to multiply. At the same time, the human system begins to produce defensive antibodies.

A race ensues. If the human antibody factory works speedily enough, the antibodies destroy the polio virus in the blood and keep it from attacking nerve cells.

If the virus multiplies faster than antibodies can be produced to fight it, the virus overwhelms the body's defenses, attacks the nervous system and may cause paralysis.

**Gamma Globulin Found**  
For nearly all of recorded history men knew no way to influence the critical battle of polio within the human body. Then, in 1951 and 1952, research supported by the March of Dimes revealed that antibodies from other people's blood—contained in gamma globulin—could be "loaned" to an individual by injection and would give some protection against paralytic polio.

But the loaned antibodies would last only a few weeks. And to be effective, they had to be injected before or at most within a few days after a person was exposed to polio, and it is not generally possible to tell when this.

Obviously, gamma globulin, while of value in epidemic situations, was no final answer to the control of polio. Among other things, there could never be enough to go around (since it

comes from human blood) and it is extremely expensive.

Now—for the first time—we have an effective means of controlling polio. The Salk vaccine, in the most extensive and careful field trial ever given a vaccine, was shown to be 60 to 90 per cent effective in preventing paralytic polio. The vaccine now being manufactured is even more effective.

**Season Tapering Off**  
In most parts of the country we are now at the tapering-off part of the 1955 polio season. We have the fall and winter months and the early spring to prepare for 1956. There is no doubt that we have it in our power greatly to reduce polio incidence next year. How well we succeed will depend largely on how many children receive vaccine.

First, of course, the vaccine must be manufactured and distributed. During the fall and winter large supplies will be made available for use. It is too much to hope that all of the 165,000,000 people in the United States can be vaccinated before next summer, but many millions of children will surely be inoculated, including almost all in the highly susceptible five-through-nine-year age group.

Since polio attacks more children than adults, it is by vaccinating children that the greatest effect can be achieved, in terms of preventing cases of paralytic polio.

Every parent naturally has questions about the vaccine. Foremost is the question: Is the vaccine safe? The answer to this is yes. Last spring, according to a U.S. Public Health Service report, live virus was found in a small amount of vaccine that had been released. More stringent government safety standards were promptly established to prevent a recurrence of this incident.

The difficulties of a single manufacturer do not, of course, reflect on the safety of all commercially produced vaccine, any more than the existence of one contaminated source of water suggests that water itself is unsafe.

**One Shot Not Enough**  
During the summer there have been suggestions that a single shot of the vaccine might give some protection against paralytic polio, and so parents may wonder if such an injection is not enough. The answer is that it is not enough for full and lasting protection.

Here is what happens when a

child is given vaccine. Some seven to 10 days after his first shot he begins to develop polio-fighting antibodies. These help strengthen his defense against paralytic polio. When he receives his second shot, the number of antibodies again rises. Then, approximately seven months later, when he receives his third shot, there is a further rise in antibodies, and he then has the full protection of the vaccine.

Thus, the child with one shot has some help in defending himself against paralytic polio. The child with two has even more help. The child with three, properly spaced, has the full protection of the vaccine.

The body tries to defend itself against paralytic polio even without vaccine. What the vaccine does is bolster natural defenses.

**Follow-Through Planned**  
Everyone would like to know how long the effect of vaccine lasts. And no one can give a hard and fast answer, because we have not had the vaccine very long. A number of children who have received it will be followed through the years until we do know how long it protects.

However, because the level of protection after the third shot is so high, there is reason to hope that it will last for many years.

The third shot is in a sense the real key to the effectiveness of the vaccine. This is why we will look with growing interest toward the 1956 polio season. By that time enough youngsters

should have received their complete series of injections to make a substantial difference in the nationwide polio rate. Then we will be able to look forward to final control of polio within a few years.

This fall the vaccine program of the National Foundation for Infantile Paralysis will be concluded in school clinics in all states. In these clinics youngsters from the first and second grades will receive their second shots of vaccine, and so will third and fourth graders in schools that participated in the 1954 field trials. No first shots will be given.

**Money Appropriated**  
The United States Congress has appropriated \$30,000,000 for the purchase of polio vaccine during the coming few months. Supplies of vaccine are allocated to states on the basis of the number of unvaccinated children five through nine years of age. Each state is responsible for the distribution of the vaccine within its borders. Your local health officer or personal physician will be able to tell you what arrangements have been made in your state.

The battle against polio in the summer of 1956, so far as prevention is concerned, will be won or lost this fall and winter. Success will depend on how many children are vaccinated. If we vaccinate every youngster for whom we have vaccine, next year should begin to show a significant decrease in the number of paralyzed children.

## Compromise Reached In US-Red China Talk

Geneva — (U.P.) — The United States and Communist China reached a compromise on bringing political issues and the Western trade embargo into their high level talks here yesterday. U. S. Ambassador U. Alexis Johnson agreed to Red Chinese demands to move on to other points in exchange for Peiping Ambassador Wang Ping-nan's agreement not to consider the exchange of prisoners issue closed, diplomatic sources said.

Item one on the two-part agenda of the talks which started Aug. 16 was the exchange of nationals held in each country. Item two deals with "other practical matters" at issue between the two nations.

## Army Board Refuses John Day Plan Cut

Washington — (U.P.) — An Army engineers' board has refused to approve a proposed cut in the flood control capacity of the John Day dam project on the Columbia river.

The rivers and harbors board returned to its Portland, Ore., division office a report recommending reduction of the originally authorized capacity of the reservoir from 2,000,000 to 500,000 acre feet.

Brig. Gen. Paul D. Berrigan, in moving that the report be turned down, said a new report should be prepared to "spell out" alternative places where the same amount of water could be stored. Meanwhile the board ordered a general restudy of flood control proposals for the Columbia basin.

Dead line for Sunday Classified is noon Saturday; 10 a.m. Monday for Monday; other days 5:30 previous day.

**BARNYARD BAIL**  
Deep River, Conn. — (U.P.) — After putting up two cows and a bull in lieu of \$100 bail bond, farmer Harold T. Smith, 22, of Haddam, was released on charges of speeding and driving without a license.

**THESE MODERN TIMES!**  
Ft. Pierre, S. D. — (U.P.) — J. W. Tingsby flew eight of his cowboys from Denver to brand cattle he was running on a Ft. Pierre ranch. And he flew them back to Denver later that day in time for their dates.

**TAXICABS CONFISCATED**  
Athens, Ga. — (U.P.) — Some 31,000 residents here had only one taxicab today. State revenue agents confiscated 13 of the vehicles which were used for transporting bootlegged "moonshine."



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**OTHER BARGAINS ON USED DRYERS AND WASHERS. RECONDITIONED AND GUARANTEED. OPEN TONIGHT TILL 9 P.M.**



## Large Military Plane Crashes, Explodes

Dow AFB, Maine — (U.P.) — A large military plane crashed and exploded yesterday while landing at this air force base.

The huge plane was believed carrying 13 airmen. At least five were injured and taken to a hospital.

The four-engine plane, a KC97 similar to a Boeing Stratocruiser commercial airliner, ran off the runway and burst into flames. "Everyone got out of the plane but some were injured and five men were taken to the hospital," a public information officer said.

The plane was attached to the 341st Air Refueling Squadron at Castle Air Force Base, near Merced, Calif. The squadron usually refuels jet fighters and bombers in flight. The squadron is attached to the 15th Air Force with headquarters in California.

## \$4,000,000 in Taxes From Hells Dams Seen

Spokane — (U.P.) — Oregon and Idaho will collect \$4,000,000 in new tax dollars annually from the three Snake river dams the Idaho Power company plans to build in Hells canyon, Orland Mayer, the firm's industrial director, said yesterday.

He told the Spokane chapter of the Washington Society of Professional Engineers that Idaho Power company intends to construct the Brownlee and Oxbow dams to gether and will start the Hells canyon dam before 1960.

**"Amazing gal, my Amy!"**

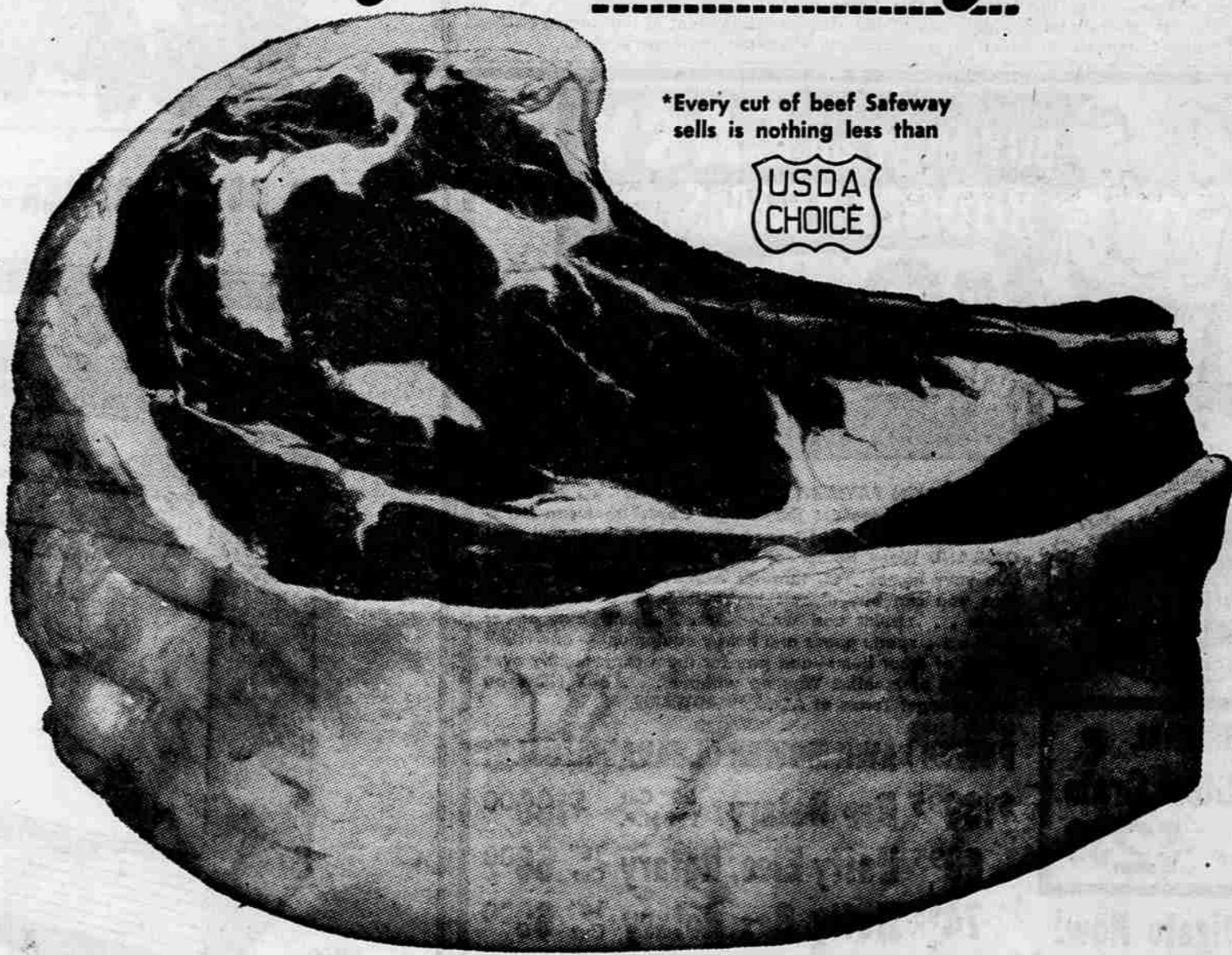


► The efficient way my Amy whizzes through her housework leaves me dizzy, but proud! Take wood floors, for instance. Some gals spend a backbreaking day scrubbing and waxing. But not Amy! She cleans and waxes them in one easy operation with Bruce Cleaning Wax. It takes only half the time and Bruce does practically all the work. And Amy's friends just rave about our beautiful wood floors. My Amy and her Bruce Cleaning Wax sure outsmart tough floor care problems. And I can't help crowing about them.

► P.S. For lighter waxing on linoleum and wood, Amy uses Bruce Floor Cleaner.



# You can buy this Rib Roast only at Safeway



\*Every cut of beef Safeway sells is nothing less than



for one reason... it's aged as only Safeway can do it

**PROPER AGING** is reason No. 1 why you'll find your best meat value at Safeway! For example: Each rib roast you buy at Safeway is aged so you taste its full natural tenderness and flavor. To assure you properly aged meat, Safeway built in this area a million dollar Central Meat Plant. Here Safeway meats are held in air-conditioned aging rooms, at controlled temperatures, the exact number of days required to develop peak goodness.

**CLOSE-TRIMMED, TOO!** Each rib roast you buy at Safeway is trimmed (trimmed before weighing, so you save money) to give you more tender center-portion roast meat. Sketch here shows you rib roast as Safeway sells it—with the end section of short ribs removed (these are sold separately at a lower price per pound) ... and the heavy chine bone removed (this bone is replaced by a lightweight layer of fat which seals in meat juices). Safeway meat-trimming means better eating and better value!



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each cut and kind of meat you buy. Our guarantee means that each meat purchase must please you completely or we return your money without fuss or quibble!

\*...AND TOP GRADES ONLY! Each rib roast you buy at Safeway is from U.S. Government top grades of beef (actually, only meat of the top grades is improved by aging!). This tender, juicy meat is packed in sterilized boxes at our Central Meat Plant and delivered to Safeway stores by refrigerated trucks. At Safeway meat counters and at our self-service meat sections, you get the same quality!



(Photo and recipe courtesy Jean Porter, Caud H Sugar Homemakers' Bureau)

**THIS NEW "ORANGE BLOSSOM" CAKE** is deliciously different! In texture it's half way between sponge and butter cake. In taste so delectable that it defies description. And to frost this new and different cake, we use a luscious "Orange Blossom" frosting. It's refreshing and colorful and literally melts in your mouth.

This is the "last word" in glamorous cakes and would make a happy ending to any meal or dinner party.

**"Orange Blossom" Cake\***  
1 1/4 cups C and H pure Cane Granulated Sugar, 1/2 cup shortening (part butter for flavor), 2 eggs plus 2 yolks, 1/2 cup orange juice\*, 1/4 cup water, 1/2 teaspoon lemon extract, 2 cups sifted cake flour, 1/2 teaspoon salt, 2 teaspoons baking powder, 1/4 teaspoon soda.

Beat together sugar, shortening, and 1 egg with electric mixer at high speed about 3 minutes (or with spoon) until light and fluffy, scraping bowl often. Beat in other egg and yolks 1 at a time. Mix orange juice, water, and lemon extract. Sift dry ingredients.

\* Use fresh orange juice, plus 2 teaspoons grated peels or frozen, dilute as usual, or canned. Alternately add small amounts dry and liquid ingredients, beat-

ing just until smooth with mixer at low speed (or with spoon) after each addition. Bake in 2 greased-and-floured 9" layer pans, at 375 degrees (moderate) 20 to 25 minutes. Cool on racks, then frost with fluffy "Orange Blossom" Frosting.

**"Orange Blossom" Frosting**  
1 lb. (4 cups) C and H pure Cane Powdered Sugar, 4 tablespoons butter, 2 egg whites, dash of salt, 2 teaspoons grated orange peel or 1/2 teaspoon lemon extract, 1 tablespoon orange juice or undiluted frozen orange concentrate.

Sift sugar; gradually add about a third of it to the butter, creaming thoroughly with electric mixer, or with spoon. Beat in, one at a time, the unbeaten egg whites. Add dash of salt and grated orange peel (or lemon extract). Beat in rest of sugar and orange juice (or undiluted frozen orange concentrate). Tint delicate orange with yellow food coloring, plus 1 or 2 drops red, and beat well. Spread in swirls on cool cake. Covers tops and sides of two 9" layers.

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