

### Army Training Device Reduces Missile Costs

Ft. Sill, Okla. — (UPI) — The Army, bless it, is earnestly trying to save the taxpayers' money in training men to fire missiles.

In the past, trainees learned to fire their weapons by going to a range and blasting at a target. Not so anymore — not with a single Redstone missile carrying a price tag in the neighborhood of \$300,000.

Using up these missiles for multi-firing training purposes would make a considerable dent in any pocketbook, even the government's, to say nothing of the danger involved in allowing trainees to fire the giant weapon across vast areas.

So the Army is using a device at its Artillery and Missile Center here which does everything that a real Redstone does, except blast off.

#### Used Repeatedly

The "stand-in" missile, which costs an estimated \$30,000, can be used repeatedly for training shots. It reacts to checkouts and firing operations exactly as a "live" missile would, even through flight, which the electrical devices can simulate.

Capt. John B. Riordan, chief of the Redstone Instructional Branch, pointed out that the potential danger of allowing trainees to fire a "live" missile, plus the damage caused by continued tinkering with the Redstone, is eliminated by the trainer.

"Allowing inexperienced trainees to handle a tactical missile would not only shorten the life span of the missile," he said, "it would also increase the chances for a malfunction in firing."

"Reliability is the problem with missiles. It takes only one malfunction among the missile's millions of parts to ruin a firing mission."

#### "Brains" in Truck

The "brains" of the training missile are in a truck, called the "analyzer van," loaded with electronic computers and reactors. These devices trigger responses in the trainer missile to checkout and firing procedures issued from the missile's fire control unit.

These responses in the trainer missile can be checked for accuracy throughout the firing and launching procedures, allowing instructors to make notes of all errors and deviations in the correct firing procedure.

After thorough training to correct these miscalculations, officials of the school believe that graduates are fully ready to handle a "live" Redstone.

"We figure the Redstone Trainer costs the Army a fraction of what a tactical Redstone costs," says Lt. Col. G. H. Wenzel. "Considering the use we get out of the trainer, that represents a considerable saving to the taxpayer."

### Colitis Arthritis Not Rheumatoid

Detroit (Science Service) — Contrary to traditional belief, the joint diseases accompanying ulcerative colitis probably are not identical with rheumatoid arthritis.

About seven per cent of patients suffering from this form of colitis also have swollen and inflamed joints, symptoms long assumed to stem from rheumatoid arthritis.

A study involving 52 patients suffering from ulcerative colitis and various joint symptoms, Dr. Currier McEwen of New York University Medical College told the American Rheumatism Association meeting here, indicates that this belief is probably not true.

Arthritis of the peripheral joints was found in 33 of the patients. But, in contrast to rheumatoid arthritis, this arthritis usually was temporary rather than chronic. Unlike rheumatoid arthritis which appears symmetrically (that is, in both knees, elbows or ankles), the peripheral arthritis appeared in just single joints in most cases.

Dr. McEwen also pointed out that blood tests for rheumatoid factor, a mysterious substance found in the serum of rheumatoid arthritis, proved negative in these patients.

Antibiotics were first made available for clinical use in the United States in 1940 when penicillin was produced commercially.

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