

System in Blood Vessels

They Have Been Photographed in Action in Medical Movies

By HOWARD W. BLAKESLEE
Associated Press Science Editor
BOSTON, April 4—A system of gates in blood vessels has been discovered at Boston university, and photographed in action in moving pictures.

The gates are at the points where capillaries, the hair-thin vessels permeating living tissues, branch off from tiny arterioles, the last formation in the network of arteries from the heart.

PICKUP STREAM
In the movies, magnified 900 diameters, the capillaries look like irrigation ditches. Each ditch runs from an arteriole through some tissue and empties into a venule, a pickup stream for the blood to return via veins to the heart.

Most of the important work of the blood is done in these capillary

off from capillaries, but the shuttling usually is supposed to be due to the capillaries closing like collapsed tubes.

Discovery of the gate action is an important addition to knowledge of physiology. The capillary does not collapse, but merely runs dry of blood. The gates are muscles just at the capillary intakes, which pinch the capillary shut at that point like a spring clip stopping a rubber tube.

DOCTOR MOVIES

The movies were made by Doctors Brenion R. Lutz and George P. Fulton of the department of biology. Usually pictures of the insides of living tissues are impossible. The Bostonians got around this difficulty by photographing thin membranes under the tongues of frogs. In a strong light these membranes are almost completely transparent despite the fact that they are rich in blood vessels, nerves and muscles.

The action of all three, the vessels, the muscles and the nerves, are traced simultaneously in the same photographic field. This triple view is the first time such a thing has been possible in microphotography.

SWITCHBOARDS

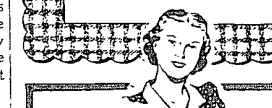
The pictures revealed that the nerves governing the capillary blood vessels operate in independent, but inter-connected units, like switchboards. Each of these

stayed under the huge piles. To get them out, it was necessary to bring large tractors and even with them it was done slowly and painfully.

Without more, accept our most affectionate embraces, JOSE.

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Roy S. Geler,
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Julia suggests 3 sparkling ideas for Easter dishes

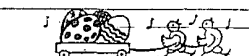


EVEN in war-time, we can turn an Easter meal into a really memorable event. The secret? Just a little feminine ingenuity!

With eggs, for example: why not make Easter breakfast something to remember, with

FROSTED EGGS
9 eggs
1/2 cup milk
1 tsp. salt
1/4 tsp. white pepper
2 eggs, butter,
margarine or
shortening
6 toast rounds

Beat 6 whole eggs and 3 yolks together lightly; add milk, 1/2 teaspoon of the salt, and 1/4 teaspoon of the pepper; beat well. Cook eggs slowly in melted butter, margarine, or shortening, in frying pan until just set, stirring occasionally. Place in individual casseroles or on top of rounds of buttered toast, arranged on an ungreased baking sheet. Frost with egg whites beaten until stiff but not dry, and seasoned with remaining salt and pepper. Bake in moderate oven (350° F.) about 15 minutes, or until whites are a golden brown. May be served with crisp bacon. Serves 6.



And for an Easter buffet, or for supper, "history" can be made with

EGG MOUSSE
2 tbsps. unflavored gelatin
1/2 cup cold water
2 cups milk
1 cup mayonnaise
1 tbsps. onion juice
2 tbsps. lemon juice
2 tbsps. prepared horseradish
1/2 to 1 tsp. salt
3 drops yellow vegetable coloring
8 hard-cooked eggs

Soften gelatin in cold water. Heat milk. Add to softened gelatin and stir until gelatin is dissolved. Add mayonnaise, seasonings, vegetable coloring, and finely sieved egg yolks; stir well. Chill until thick and syrupy. Fold finely chopped egg whites into mixture.

SAFeway Easter Guide

Let the Easter bunnies worry about how to fry colored Easter eggs! Your own worries about Easter meals will disappear if you do your food shopping at Safeway—fine meats, fine fresh fruits and vegetables, fine foods of all kinds priced to save you money! Let this be your guide to simplified shopping, at Safeway!

Gold Medal Flour	Enriched ... 10-lb. Bag	59¢
Ripe Olives	Roccabella, large	9 1/2-oz. Gl. 19¢
Biscuit Flour	Globe A-1	40-oz. Ctn. 29¢
Karo Syrup	Blue Label	1 1/4-lb. Gl. 14¢
Bananas	Dehydrated	1-lb. Cello 47¢
Seedless Raisins	2-lb. Pkg.	21¢
Marmalade	S & W Orange	2-lb. Jar 35¢
String Beans	Royal Crown, No. 2 Can	2 for 27¢

Rationed Items

P. V. Each		
3 PREM OR SPAM	Luncheon Meats, 12-oz. Can	35¢
6 TOMATO JUICE	Sunny Dawn, No. 2	3 for 25¢
— PEAS	Green Giant	No. 2 Can 15¢
2 BEETS	Del Monte Sliced	303 Gl 14¢

Token Savers

P. V. Each		
1 GRAPEFRUIT JUICE	Texsun (unsweetened)	No. 2 Can 13¢
7 TOMATOES	Gardenside,	No. 2 1/2 Can 12¢
5 HOT SAUCE	Gardenside	7 1/2-oz. Can 4¢

Coffee Values

EDWARDS COFFEE	Vac. packed, 1-lb. Gl.	28¢
FOLGER'S COFFEE	Reg. or Drip, 1-lb. Gl.	31¢
M. J. B. COFFEE	Junior	1-lb. Pkg. 27¢
S & W COFFEE	Reg. or Drip, 1-lb. Pkg.	30¢

Point-Free Items

FONTANA PASTE	Assorted Pkg.	3 for 25¢
MAYONNAISE	Nu Made	Quarts 4 to 27¢
SOY BEANS	Loma Linda	17-oz. Gl. 15¢
TOMATO RELISH	Libby's Sweet	18-oz. Gl. 26¢
STUFFED OLIVES	Libby's	3-oz. 24¢

SHOULDER ROAST

Pork
1 Point lb. 36¢

HAM

Smoked, skinned, center
slices bone in lb. 51¢



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