

BATTLES IN THE BLOOD.

The White Corpuscles Make War on All Disease Germs.

Every one who has ever viewed a drop of blood through a microscope will recall that there were to be seen in the midst of the flood of red blood corpuscles a certain number of larger bodies of somewhat irregular shape, practically colorless, that seemed to be endowed with the power of movement.

These are the white corpuscles, or leucocytes. They have been familiar to physiologists since the first microscopic lenses were made, but their function had been an utter mystery. It was early learned that the red corpuscles are the carriers of oxygen. But what useful purpose the white corpuscles subserve no one had been able to surmise until Elie Metchnikoff of the Pasteur institute in Paris studied the question.

Metchnikoff turned his microscope upon this interesting but mysterious corpuscle, says Harper's Magazine, and watched its activities under varying circumstances and conditions. And he was presently able to report that he had detected the leucocytes in the act of devouring all manner of foreign particles that chanced to come into their neighborhood as they floated about in the blood stream.

These foreign particles included, among other things, the organisms called bacteria. These tiny but highly important particles were seen to be taken into the bodies of the leucocytes and presently dissolved or digested. Moreover, even though the bacteria were disease engendering species they seemed to produce no ill effect upon the leucocytes.

Thus it appeared that at least one function of the white blood corpuscle is to act as a scavenger in the blood—a sort of department of health officer keeping guard over the hygienic conditions of the blood and promptly using its efforts to remove any noxious foreign substances that obtrude themselves into that all important highway.

Just why the leucocytes gathered at a wound in such numbers had never been understood. But now it seemed clear that their presence is exactly comparable to the presence of an army at a port subject to foreign invasion by a hostile host. The object of antiseptic dressings, with which every one is now familiar, is to shut out this host of noxious bacteria. In proportion as the dressings effect this purpose there remains no need to aggregate leucocytes at the seat of war, and in point of fact the absence of pus shows that they are not called upon when the modern method of surgical treatment has rendered them superfluous. The external dressing applied by the modern surgeon has in effect warded off the enemy, just as a line of submarine torpedoes or coast batteries off New York harbor might keep an invading naval force at a distance, making it unnecessary to call on our land forces.

But Mamma Didn't.

Little Mabel was always tumbling down and getting hurt, but as soon as her mother kissed the bumped forehead Mabel would believe it cured and cease crying. One day she accompanied her mother to the Union depot, and while they were seated in the crowded waiting room an intoxicated man entered the door, tripped over a suit case and fell sprawling on the floor. The attention of every one was attracted to the incident, and in the sudden silence following the fall Mabel called out:

"Don't cry, man! Mamma'll kiss oo, and en oo'll be all right."—Lippincott's.

The Human Body.

Accepting 134 pounds as the weight of the average man, we find that water alone accounts for 109 pounds of the whole. Every fiber and every cell that enters into the formation of the human body is bathed in moisture, and even the bones, which appear to be so solid, are more than half water. That our bodies are full of water is proved by the blisters which rise after the infliction of a burn.—New York American.

Then She'd Say It.

"I assure you," said the persistent suitor, "that I will not take 'No' for an answer."

"You needn't," replied Miss Bright. "I'll say 'Yes' upon one condition."

"Ah! Name the condition."

"Just ask me if I am determined not to marry you under any circumstances."—Catholic Standard and Times.

Seeing Her Home.

The young man was disconsolate. Said he, "I asked her if I could see her home."

"Why, certainly," she answered. "I will send you a picture of it."—Ladies Home Journal.

THE TIDES.

How the Attraction of the Moon Acts Upon the Water.

The tides have been studied with great care and labor during three centuries and are not yet completely understood by astronomers, says Edgar Lucien Larkin of the Lowe observatory.

Any point on earth moves from west to east around to the same location in space in a period of twenty-four hours. The moon goes around the earth in a period of 27.32166 days. Let the moon and a star be on the same straight line at exact noon. Then, of course, they would cross the meridian together. In twenty-four hours the star will cross it again, but you will have to wait fifty-two minutes longer for the moon to cross, it having moved eastward through a space requiring that length of time to traverse.

The moon attracts by the law of gravitation, and being a dead planet, has no effect on attractive force. And this attraction heaps up water directly under it in the ocean. But there is another heap on the exact opposite side of the earth away from the moon.

This is because the moon attracts the whole earth away from the water, leaving it behind in a heap or pile or elevation. The tide day is therefore twenty-four hours and fifty-two minutes long. High tides will be at both sides of the earth at the same time and, of course, low tides at distances of 90 degrees each way, or at points one-fourth the circumference of the earth from the high tides.

Tides are caused by differences in the intensity of the moon's attraction on water on the side of the earth nearest to it and farthest away and also between these attractions and the attraction exerted on the center of the earth. The sun also causes tides. These combine with the lunar and call into use the most intricate mathematics to compute heights and times of high and low.

A Queen May Look at a Man.

There is an old story long current in his home city, Brooklyn, about the late Dr. Theodore L. Cuyler which illustrates how a son is to his mother the most important being in the world. In Dr. Cuyler's case one could not justly question his ability and usefulness. Besides being a successful pastor he was the author of many religious books which were read here and abroad, as well as a frequent contributor to certain magazines.

When he was in England he and his mother corresponded regularly and at great length, so the tradition goes. One day a letter came in which he described his presentation to Queen Victoria. Mrs. Cuyler read it with eagerness, hardly able to wait till she had finished before telling some one what had happened. When she at last got through the letter she hastened to a neighbor's house and announced:

"I've just got a letter from England, and, do you know, the queen has seen Theodore."

Don't Be Dull.

What! Dull when you do not know what gives its loveliness of form to the lily, its depth of color to the violet, its fragrance to the rose; when you do not know in what consists the venom of the adder, any more than you can imitate the glad movements of the dove. What! Dull when earth, air and water are all alike mysteries to you and when as you stretch out your hand you do not touch anything the properties of which you have mastered, while all the time Nature is inviting you to talk earnestly with her, to understand her, to subdue her and to be blessed by her! Go away, man! Learn something, do something, understand something, and let me hear no more of your dullness!—Sir Arthur Helps.

Blowing His Own Nose.

When George IV. was prince regent he visited Doncaster, and at the time his royal highness was suffering from a cold. One day the royal party were showing themselves to the people from a balcony.

"Which is the prince? I must see the prince!" cried an excited old Yorkshire woman who had come to see the "first gentleman of Europe."

"That's him," said a bystander, pointing upward, "him with a handkerchief in his hand."

"Him!" cried the old lady in profound contempt. "That the prince! Why, he blows his own nose!"

The Oddities of Language.

"English is a funny language, after all, isn't it?"

Why so?

"I heard a man talking of a political candidate the other day say, 'If he only takes this stand when he runs he will have a walkover.'"

—Baltimore American.

REPORT OF CITY RECORDER

To the Honorable Mayor and Council of the City of Newberg:

The undersigned, Recorder of the City of Newberg, respectfully presents his report and financial statement with said City, as follows:

GENERAL FUND	
Receipts	
Street collections.....	\$ 1432.57
Taxes from Co. Treasurer.....	7373.69
Fines.....	105.50
Licenses.....	\$21.00
	9232.76
Paid to City Treasurer.....	9203.11

Balance on hand.....	\$ 29.65
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WATER FUND	
Receipts	
Water rents, taps, fines \$775.90	
Paid to City Treasurer.....	7375.90

SEWER FUND	
Receipts	
Bonds & Interest.....	\$30688.83
Sewer connections.....	1080.00
Inspectors fees.....	24.00
	31792.83
Paid to City Treasurer.....	31792.83

Warrants drawn on water fund No. 327 to 470.....	\$ 9602.98
Warrants drawn on sewer fund No. 1 to 23.....	82298.69
Warrants drawn on Gen. fund No. 123a to 370a.....	8855.79
Warrants drawn on street fund No. 15 to 31.....	301.25
	\$100968.71

This report includes the amount of money received and the amount of warrants drawn for the year, 1911.

W. W. Nelson, City Recorder.

BIG GUNS IN A DUEL.

Curious Combat That Was an Incident of the Crimean War.

Even war, with all its grim horror, has now and then a bit of fun, and enemies pitted against each other in deadly struggle can relax into friendly controversy. A general relates a curious incident of the Crimean war. While the British army lay before Sebastopol much speculation went on in regard to the relative merits of certain Russian and certain British guns.

One day during an armistice a Russian officer of artillery came to the British lines and asked to see the commander of the British artillery.

"Your sixty-eight pounder that your people call 'Jenny' is a beautiful gun," said the Russian, "but we have one as good in the embrasure, and we should like a fair duel with her."

Arrangements were made that at 12 the next day all other firing should cease and that the two guns should be put to the test.

At the appointed time a large number of officers were assembled to view the contest. The British sailors of the gun detachment took off their caps and saluted the Russians, who returned the compliment. The British gun, as the senior, was allowed to fire first. It struck the side of the Russian embrasure. Then the Russians returned a good shot.

The third shot from Jenny went clear through the enemy's embrasure. The bluejackets, thinking the victory was theirs, jumped upon the parapets and cheered. But they were mistaken. In a minute out came the Russian gun again and delivered several accurate shots. Jenny got a bad thump on her side, but it did no material harm.

At the seventh shot from the British side the Russian gun was knocked clean over. The British fellows cheered vociferously, and the Russians mounted the parapet and took off their hats in acknowledgment of defeat. This ended the great gun duel, and more serious hostilities were resumed.—Pearson's Weekly.

A Good Little Speller.

"I learned to spell mister and missis in school today, mother," said the very youthful daughter of the lady in the flat across the hall last night.

"Oh, those are pretty hard words for a little girl who has just started to school," answered mother. "Are you sure that that was what you learned?"

The youthful daughter thought a minute. "Yes," she said, "quite sure. Mister is spelled h-e and missis s-h-e."—Detroit News.

England's Lotteries.

It was not until 1826 that government lotteries were abandoned in Britain. For the thirty years preceding an average annual profit of over \$1,725,000 had accrued, one contractor alone spending \$150,000 in advertisements in a single year. The money thus raised was usually for a particular purpose, such as the improvement of London, the purchase of Tomkins' picture gallery or the repair of various harbors. From the seventeenth century to the reign of George IV. the crown repeatedly drew considerable revenues from such sources.

FROM FERNWOOD

There will be a basketball game at the Fernwood gymnasium next Saturday evening, February 3, between the Wilsonville team and first team of Fernwood. Admission 10 cents.

Miss Mildred Baker was quite sick last week but is able to be around again.

Miss Linnie Taylor, of Portland, visited with Miss Lena Hobson over Sunday.

The shadow social was a success in every way. With all the rain and mud there was a good attendance. The shadows were sold by S. Woolston and brought \$20.75 which will be spent for library books.

Miss Carrie Brouillette is home for a few days.

Arthur Tarrel has purchased a nice young team of horses.

Fred Schick visited with his sister near the Wentz sawmill Sunday.

The first team of Fernwood was defeated by Newberg high school second team last Friday night the score being 12 to 24.

Womanly Wisdom.

A shoe-horn is a great help when putting on children's rubbers.

Get the kindling ready the night before. It is a real pleasure, these cold mornings, to find a well-filled basket all ready.

Do not waste time and energy trying to wash the bean pot the same day it is emptied. Put it in a pan of water for a day, and then it will clean easily.

The best way of cleaning the rubbers on a wringing-machine is to rub them clean with a cloth dipped in coal-oil. It won't do any harm if the rubber absorbs a little.

If you want to make the very best coffee, free from grounds and which will need no straining, try the experiment of putting it in a little muslin bag before placing it in the pot. You will be surprised at the result.

The cold strikes up through a mattress that just rests on springs, and makes one cold bed at night. Lay one or two thicknesses of newspaper over the spring; this will keep out the cold and save the mattress from wear.

Being alone in the house, and hearing burglars down-stairs, a woman had the presence of mind to take a large paper bag, blow it full of air, then break it on the wall of the stairs. Mistaking the loud report for a pistol shot, the robbers fled.

There are some time saving "kinds" about preparing vegetables. We all boil beets with skins uncut to keep the juice in. Now put potatoes also with the skins on it the same kettle, and the two vegetables cook nicely together; only beets must go in first and boil much longer. They will not discolor the potatoes.

From Farm Journal.

Notice to Voters.

Registration of voters for Newberg, Brutscher, and Springbrook precincts, is being conducted by Ezra Hayes, at his office No. 703½, 1st street, in White's building. Attend to this if you wish to vote for the next president. Office hours from 9 a.m. until 5 p.m. until May 1st, 1912.

Horse Sale.

At Depot barn Newberg, Oregon, Saturday, February 3 at 1:30. 15 horses all well broke to work, also some big boned colts. Terms made known on day of sale. Farmers, if you have a horse, cow or vehicle for sale bring them in, will try and sell them for you.

Col. Westfall, Auctioneer, W. M. Langly, Owner.

WANTED AND FOR SALE

FOR SALE—Sow and seven pigs.—A. E. Moore.

FOR SALE—White Leghorn cockerels.—C. B. Wilson. 1t

See Zumwalt at corner of First and Main for all kinds of feed.

MONEY TO LOAN—See Atty. B. A. Kliks, McMinnville, Oregon.

FOR SALE—Horse, harness and buggy \$50.—Fred Barrell Sr. 1t pd

The coffee and doughnuts at the Model restaurant are fine, try them.

FOR SALE—One registered Jersey bull calf.—Mrs. W. H. Taylor, Dundee. 13 tf

Buff Plymouth Rock eggs for hatching at \$1.50 for 15.—E. H. Woodward.

Sweet Pea and Aster seed now on sale at Ferguson's Drug Store.—Henry Clemmens. 17

Pittsburg perfect fence for lawn, garden, hog and field, all heights. Hart's Hardware. 11 tf

A water spritz motor washing machine costs only \$18 at C. & L. Hardware Co's big store.

FOR SALE—One light wagon and one wagon bed at Finnegan's blacksmith shop. 1t pd

Journal Bargain Day, February 1-7. Subscribe now at Benson's near P. O. Phone Blue 180. 16

Get Dupont's stumping powder of the Christenson Larkin Hdw. Co. Cheaper than grub hoes.

Phone your orders for cake, doughnuts, pies to Model Restaurant and lunch room home baking.

FOR SALE—White Orpington and Plymouth Rock cockerels.—Mrs. C. H. Nichols, phone Black 207. 16-17

FOR SALE—Good grain hay.—J. R. Smith. Phone, Red 36, or call at Smith & Fergusons' Real Estate office. 1t pd

Racine stocking feet can be had by ordering from Mrs. Cora Dieckman. Phone white 200. 205 S. Center street. 15-16

WANTED—Calves when a day or two old. Inform O. M. Hanson, Route 3, Newberg or phone 515-11 Schools. 18-pd

Christenson & Larkin sell "Dependable Brand" lime and sulphur solution for spray. There's none better.

B. Minorca's and R. I. Red's eggs and one day old chicks for sale.—Mrs. Jessie Marr, Dundee, Ore., R. F. D. No. 1. 18-pd

WANTED—To rent about thirty or forty acres of farm land east of Newberg. Will pay cash. State price.—A. H. Dean, Rex, Ore. 1t

FOR SALE—One registered Poland China boar. Two eligible to record, boars 8 months old; 14 Poland China pigs 2 months old. For information Phone 19a25. N. P. Nelson, Newberg. 10tf

We wish to announce that Singer stores at 213 Main street, near depot. Machines to rent by week or month or sold on easy monthly payments. Needles for all machines. Oil made for sewing machines. Repairing. Phone Red 21.—Singer Sewing Machine Co. 17 pd

FOR SALE—Breeding stock of the Kellerstrass strain, Crystal White Orpingtons. Foundation stock direct from the Kellerstrass yards—the kind that wins the blue ribbons. Eggs \$3 per 15. Address Samuel Richardson, Newberg. Residence on bluff at foot of River street. 17 pd.

WANTED—Experienced girl for general house work. Phone White 137.

FOR SALE—Pigs, or will exchange for goats.—W. A. Baker, Route 1. 17 pd.

Lost—Purse containing a sum of money. Finder, please leave at Graphic office.—Mrs. E. E. Colton.

A pullet in time lays two eggs for a dime—A rooster hatched too late will not sell for the food he ate.—G. Everest. 1t

I hatch all kinds of eggs in incubators successfully—3000 hatched last year.—G. Everest, ¼ mile east of Newberg. 16-tf

Real Estate.

The time to buy LAND is when there is no BOOM on; and NOW is the RIGHT time to buy or TRADE for a good dairy ranch in the Coast range.

320 acres, 1 mile to R. R. and 1¼ mile to school. Good house and gravity water system, 2 barns, 2 small orchards in bearing, and plenty of small fruit. Fine large creek runs through the place and would furnish good water-power easily harnessed. Sell or trade for small farm.

220 acres up the valley, well improved, buildings and plenty of water, about 150 acres under the plow. R. R. 4 miles. New R. R. survey 1 mile. R. F. D., ½ mile to school and 2 miles to church. Price \$85 an acre. Would trade for good stock of Mdse. or Hardware.

Residence property, and ¼ blk. in Newberg, must be sold at once, can give good terms.

Store bldg. for sale on First street, can give terms.

White & Company, 705 First Street.

For Rent.

Nice farm, 42 acres all cultivated, part sown to crops. House, barn, woodshed, etc. Good well at house. Cow, chickens, hay, grain, wood and a few implements for sale. Will also sell some furniture. Will rent for reasonable cash rent. Possession given soon. Inquire at Graphic office. 15-tf.

Fruit Trees.

Lambert and Royal Ann cherries. Top grafted on two-year-old stock.

Fred Kincaid, Springbrook, Oregon.

Small Tracts For Sale.

Acreage in tracts of 3 to 5 acres adjoining Newberg on the east. Small cash payments with time on balance. J. T. Everest.

Executor's Notice of Final Settlement.

Notice is hereby given that the undersigned, executor of the last will and testament of Penelope J. Skinner, deceased, has filed his final account as executor of said will and testament, and estate of said decedent, in the County Court of Yamhill County, Oregon, and that said court has appointed Monday, February 19th, 1912, at the hour of 10 o'clock a.m. of said day as the day and hour for the hearing of objections to said final account and the settlement thereof.

Now, therefore, all persons interested in the estate of said decedent, are hereby notified and required to appear at the County Court room at the Court house at McMinnville, said county and state, at said time, to then and there show cause, if any there be, why said account should not be settled, allowed and approved, and said executor and his bondmen discharged and said estate forever and finally settled.

Dated, January 18th, 1912.
W. Kincaid,
Executor of the last will and testament of Penelope J. Skinner, deceased.
Clarence Bull,
Attorney for Estate.

Executrix and Executors' Notice.

Notice is hereby given that the undersigned Anna A. Lucas and G. J. Clemenson have been duly appointed, joint executrix and executor, respectively, of the last will and testament of J. C. Lucas, deceased, by the County Court of Yamhill County, Oregon.

Now, therefore, all persons having claims against the estate of J. C. Lucas deceased are hereby notified and required to present the same, with the proper vouchers to the undersigned, at the office of Clarence Bull, Newberg, Yamhill County, Oregon, within six months from the date hereof.

Dated, January 18th, 1912.
Anna A. Lucas,
G. J. Clemenson,
Joint executrix and executor of the Will of J. C. Lucas, deceased.
Clarence Bull,
Attorney for Estate.

It is a pleasure for us to please our customers. Come and try us.

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