HOW DOCTORS ARE USING MICROBES.

Sir Ray Lankester Points Out How Doctors are Using Microbes as Aids to Digestion and How the World Depends Upon Them.

Sir Ray Lankester explains the whole mystery of sour milk and lactobacilline and the romance of the world of microbes in a very lucid article in the Telegraph.

"What," asks Sir Ray Lankester, "is the purpose with which the lactic bacilli or microbes are nowadays so largely taken by all sorts of people whose digestion is in an unsatisfactory state? It must be remembered that what is aimed at-in this matter -is not the swallowing of a dose of lactic acid. That is another business, and is easily accomplished. Lactic acid has been and is often given as a drug. The object in taking lacto-bacilline, or the sour milk prepared with it, is to get the living lactic microbes to establish themselves in the intestine and to grow there for days and weeks, manufacturing lactic acid, so to speak, on the spot. The effect of this sowing or 'insemination' of the intestine with the lactic organism is to make the contents of the intestine acid, instead of neutral or alkaline Now let me try to explain the im-

"Few persons can realise at first ! what an immense number and variety and their particular kind of chemical of microbes there are, not only destructive work ascertained. As around us, in air and dust and water, might be expected, the intestines of but also in us, and on us, and in and most animals are swarming with on every living thing. The work, the huge system of chemical change and kinds in the human mouth, however the circulation of the elements car- much they may be kept in check by bon, oxygen, hydrogen, nitrogen and anitseptic mouth-washes. The nose sulphur, which they carry on is in- | and air passages contain nine or ten cessant, varied and complex. Those more, and the stomach and intestines five elements are the main and es- so great a number and variety that sential constituents (of all living no one would venture to say precisely

breaking-down of the dead bodies of animals and plants which were once alive into gas and substances soluble | tract. in water. They-by a series of steps, in which different kinds of bacteria or microbes are successively concerned-convert the proteids and the fats and sugars of dead plants and animals acids aromatic bodies and other comnounds (some highly poisonous to man), and at last, when what were highly complex combinations of hundreds of atoms in each molecule have been reduced by the action of first crobe into comparatively simple substances of twenty or thirty atoms to the molecule, the coup de grace is given by certain special microbes, which convert these later compounds into still simpler combinations, pamely, ammonia and nitrates, which are fairly stable, so that the whole elahorate chemical fabric of living matter in a few hours or days after death is broken down until it reaches the stable 'mineral' condition, practically carbonate and nitrate of ammoniasmelling-salts! If there were no mi crobes this would never occur.

GOOD FLOUR BREAD or PASTRY.

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Bananas, Celery, Tomatoes, New Cabbage,

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Table Apples, California Oranges.

J. EDENS. Duckworth Street and If There Were No Microbes

The earth would be cumbered with dead bodies of past generations of animals and plants-undecomposed. And very soon all the organic elements, all the carbon and nitrogen, if not all the hydrogen and oxygen, on the face of the earth would be fixed in these corpses, and the green plants would perish from the whole world for want of sustenance. For it is the green plants which feed on, and absolutely must have as their food, the carbonic acid, ammonia, and nitrates, into which the microbes resolve all living things when dead.

"It is the green plants which, from those simple compounds, build up again the more complex molecules. the sugars fats albumens, and proteids and provide for the pourishment and increase of the most complex of all-the living matter hidden in pro-

Investigating the Microbes.

"That being so, the investigations of a host of talented chemists and microscopists have been directed to these microbes. I should be sorry to say how many hundreds of kinds have been actually separated and studied, them. There are a dozen or more how many kinds are present, but prob-"Supposing there were no microbes, ably more than thirty. An enormous there would be no putrefaction, no variety of kinds is swallowed with our food and drink, and survive for a longer or shorter time in the digestive

The Sensitiveness of Microbes.

"Bacteria microbes are very sensitive to two conditions, which affect their activity and life. Firstly, some kinds will only live in an alkaline into less elaborate bodies, organic fluid, and are neither killed or rendered torpid by the presence of even weak acid (hence the value of vinegar with oysters); whilst, on the other hand, some other kinds multiply and cause chemical changes in the presence of acids. Now, the contents of the large intestine are, in civilised man, usually found to be neutral or alkaline. Consequently, certain microbes flourish there which will not tolerate or multiply in acid surround-

Acid-Fearing Microbes.

"Amongst what we may call the acid-fearing microbes are some which produce in the incompletely digested food in the large intestine a highlyputrid chemical condition, and especially manufacture certain known chemical compounds which are poisnous. These compounds are absorbed into the blood and exert their poisonous effect. The name 'auto-intoxication,' or self-poisoning, is given by dectors to this result. In strong, healthy adults they merely produce lethargy, perhaps headache, and are of no serious consequence. But in the case of children, old people, and otherwise enfeebled adults, they often cause ill-health, and if, owing to special causes (such as intestinal disorder), these poisons are produced by the bacteria in excess, they may lead to the gravest consequences. Now since these poison-producing bacteria will not flourish in the presence of acid, why not try to produce acid in the intestine, regularly and constantly? That should stop them! And so it has come about that sour milk and tabloids of dried lacto-bacilli are administered by medical men.

Why Sour Milk is Good. "There is no doubt that the contents of the large intestine can thus be continuously rendered acid, and there is no doubt that the production of the particulr poisons due to acid-fearing microbes is abolished. That has been accurately demonstrated by chemical analysis and by the study of patients in hospital in Paris and elsewhere by competent scientific men. English medical men are beginning to hear of the serious work which has been done on this subject, and some have mastered the subject. But it is at present difficult for anyone to obtain proper advice on this matter in London, since a number of manufacturers are anxious to obtain a sale for their

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His Majesty Roasted.

King Edward Made a Tremendous Noise When He Was Born.

"Is it a boy?" asked the Duke of Wellington, as the nurse came out of the royal chamber with the new-born baby in her arms.

"No, your grace," replied Mrs. Lilly," with immense dignity, quite crushing the Iron Duke. "It is a prince!"

bacillus, and wild statements are cur- eldest son-our present King -was not born a prince; he came into the world a duke-the Duke of Cornwall.

The higher rank was given him later Curiously enough, when the King was born, there had been some mischell says in an excellent little treat- take about letting the state dignitaries -whose duty it is to be at the palace ed, 'We are undoubtedly indebted to on such occasions-know what time

And so the Duke of Wellington was (the Bulgarian sour milk) or its the first to welcome the little heir to

> As he was leaving the palace he met Lord Hill tearing up too late. "What has happened?" asked he breathlessly.

"All over," said the Duke. "A fine boy-a very fine boy! Very red in-To grow hair after it has fallen out | deed-nearly as red as you, Hill!" he added unkindly. "If." he told another late comer.

"healthy babies cry loudly and kick hard, then this is an uncommonly

Our future King certainly seems to SALVIA once a day and watch the have distinguished himself on entering the world. He absolutely roared, SALVIA is guaranteed to stop fall- and Prince Albert, his overjoyed fath-

> "Well, if his appetite is as good as his lungs. I pity his nurse."

Yet no fewer than seven hundred women volunteered for the post! Of Watch your hair if it is falling out. course, it was a post worth having. If you don't, you will sooner or later Apart from the honour, it was a lucrative one. The nurse of the Princess Royal got \$2,500, and for such an important personage as the heir to the throne the fees were doubled. The nurse and her charge were installed in a room next the Queen's, and that devoted father and husband. Prince Al bert, divided his time between mother and baby.

> Meanwhile London and the whole kingdom went mad with joy. Never was such a Lord Mayor's Day as Nov 9. 1841. The Lord Mayor was almost forgotten. Great crowds gathered, cheering the Queen and the heir.

Forty-eight hours after his birth King Edward held his first official reception. The Lord Mayor and Sheriffs of London came in state to welcome

Then four weeks after his arrival he As a matter of fact, though, the was created "Prince of the United nurse was wrong. Queen Victoria's Kingdom of Great Britain and Ireland

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is a treat to Children, a sustenant to the worker, a boon COCOA to the thrifty housewife.

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combination hand and foot drive.

HARDWARE DEPT.



UPPER BUILDING. -Prince of Wales and Earl of Chester," and a host of minor titles were given him. Until then he had been known in the royal household as "the Little Duke."

He was not only created, but crowned Prince of Wales.

The proclamation runs:-"We do ennoble and invest him with the said Principality and Earldom by girting him with the sword, but putting a coronet on his head, and a gold ring on his finger, and also by delivering a gold rod into his hand."

Poor baby! What a solemn and important ceremony! But probably his time was taken up by admiring the glittering objects as they were given

Just Plain Brag.

A German, a Frenchman, and Yankee were shipwrecked and cast upon an island inhabited by semisavages. The chief potentate of the place informed the involuntary visitors that the post of Supreme Chief Executioner was vacant and would be awarded to that one of them who could fill it with most credit. Three condemned men were brought forth

for the trials. The German stepped swung the great two-handed sword, and performed the decapitation with considerable success, although he required two strokes in which to hack off the victim's head.

The Frenchman took his and, with debonair grace, despatched his victim with one stroke.

The Yankee went to bat. After genty feeling the edge of the big sword, he drew it back, held it poised an instant, and-swish!-a flash, a hiss, and that was all. The Yankee wiped the sword and stepped back.

"Go ahead," said the condemned man. "This suspense is terrible." "Cough!" commanded the Yankee. The criminal coughed-and his head rolled upon the ground .- Everybody's.

By Appointment His Majesty
to The King. BOVRIL

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Another Queen in Trouble.

The club of amateur Thespians used o give theatrical performances which were distinguished by the local prominence of the actors. Once a social celebrity, with a gorgeous costume, as one of the lords-in-waiting, had only four words to say: "The queen has swooned." As he stepped forward his friends applauded vociferously. Bowing his thanks, he faced the king and said, in a high-pitched voice:-

"The swoon has queened." There was a roar of laughter, but he waited patiently, and made another

"The sween has cooned." Again the walls trembled, and the stage-manager said, in a voice which ould be heard all over the house:-

"Come off, you silly fool." But the ambitious amateur refused surrender, and in a rasping falsetto as he was assisted off the stage, h

"The coon has sweened."

Sneezed at Her.

The court room was crowded. wife was seeking divorce on the grounds of extreme cruelty and abusive treatment. Guns, axes, rolling pins and stiging investives seemed to have played a prominent part in the plantiff's married life.

The husband was on the stand undergoing a grueling cross-examina-

The examining attorney said: "You have testified that your wife on one occasion threw cayenne pepper in your face. Now, sir kindly tell what you did on that occasion." The witness hesitated and looked

confused. Every one expected that

he was about to confess to some

shocking act of cruelty. But their hopes were shattered when he finally blurted out:

"I sneezed." - Everybody's Magn-

Comet Photographed.

2,000,000 Miles of Tail Visible.

Chicago, April 18 .- What is believed to be the best photographs yet obtained of Halley's Comet, was secured at Yerkes Observatory, Williams Bay, Wis., early yesterday. Prof. Frost viewed the celestial wonder for more than an hour in ideal conditions. About 2,000,000 miles of the comet's tail were visible.

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To fit 3 to 6 years old.

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\$1.20.

P. F. Collins,

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THE INCREASED COST OF LIVING?

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