The general interest in the protozoa has greatly increased in recent years, and many new facts have already been established, and others will be forthcoming. I hope very shortly to produce the second volume of my work on *Protozoa and Disease*, and I

Fig. IV.—Three cells from a myxo-sarcoma of the uterus ($\times 100$ diameters). These cells, according to the author, are protozoa. 1. Large cell undergoing mitotic binary fission. 2. Large cell with multiple budding and irregular mitosis. 3. Large non-nucleated cell within a capillary blood vessel.

believe that, with recent additions to biological science, I shall be able to convince biologists and pathologists alike that in every essential, what I have advanced concerning cancer, sarcoma, syphilis, small-pox, etc., since the year 1892 is true.

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SEVERE PUNCTURED WOUND OF LOWER JAW.

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THE following case may be of interest not only on account of the unusual and severe nature of the accident, but as an example of the difficulties the general practitioner may be called upon to meet.

On May 22nd, 1905, at 11 p.m. I was summoned in haste to a man who was said to be "hung up" on some park palings about three miles away, as the result of a cycle accident, the messenger could not say whether the man was much hurt, the difficulty was "they could not get him down." I found A. B., a young man of 26, standing supported by a policeman against some iron palings mounted on a low stone wall, which separated a private park from the road; it was a lonely spot situated in some woods, and the night was dark with cold showers of hail. By the light of a lantern I was somewhat startled to see one of the cruel-looking iron spikes with a broad-arrow head protruding from the man's mouth, his chin rested on the cross-bar, his feet just touched the ground and he was able partly to support himself with his arms. He had been impaled in this position for about an hour; he was pale, cold, with a feeble pulse, and evidently suffering much pain and shock. Unsuccessful efforts had been made to lift him off, resulting only in increased pain; he could articulate indistinctly and implored not to be touched. From the shape of the spike, a photo of which is

given one-third natural size, it was obvious that any attempt of this kind would be futile.

The history of the accident was this: He was cycling home with two friends, one on each side, when, running downhill, the road divided right and left; one companion went to the right, the other to the left, both calling out: "This way!" The man in the middle hesitated which way to turn, with the result that he dashed straight forward, his front wheel striking the low wall. He shot over his handle-bar and came down with his chin on top of the iron spear-head; this penetrated into his mouth and out just in front of his upper incisor teeth, knocking out several. No doubt his head was thrown back at the time, otherwise the spike must have gone up through his palate. The ball seen under the spike-head was embedded in the lower part of the wound; the flat broad head was pressed against his upper lip and nose.

Sending for the nearest blacksmith and his tools, we filed through the shaft a few inches below the horizontal cross-bar through which the vertical bars passed. There was no room to file between the man's chin and the cross-bar, and this method would have left no handle for subsequent extraction. While this was being done a room was prepared in a neighbouring cottage, with hot blankets, etc. The patient was then held well up while the now detached spike was hammered up from below through the cross-bar in which it was tightly fitted. This must have been a very painful process, but it was impossible to give an anaesthetic. The proceedings were rendered more unpleasant by the presence of a beehive fixed on the far side of the railings just at the poor man's feet, and the light from the lanterns caused these creatures to buzz around in a threatening manner.

The patient was then carried indoors, and, having wrapped him in hot blankets and applied hot bottles to his feet, I gave chloroform, and was able, with a great amount of traction, to withdraw the spike by the way it had entered; it would have been impossible to pull it right through his mouth, as not only was there not enough of it to grasp, but so tightly was it jammed between the bones of the lower jaw that there was great risk of fracture. Very little haemorrhage followed the extraction, the track being immediately almost closed by muscular contraction. I syringed the wound and packed it with gauze. As soon as the patient recovered from the anaesthetic, from being pale, cold, and almost pulseless, he was warm, of good colour, with a full pulse, and, what much surprised me, could talk almost distinctly and without much pain. He was then moved to Lynn Hospital, where the house-surgeon, the late Mr. Hand, told me next morning that he could only with difficulty pass a probe through the wound in the floor of the mouth. Subsequently a good deal of suppuration took place (the spike was rusty, and the paint flaked off into the wound), and small portions of the lower jaw necrosed with formation of abscesses; but now, after nearly twelve months, the man is in good health, with practically no alteration in speech and very little disfigurement. When I visited him in hospital the day after the accident his chief complaint was of stiffness and soreness in the muscles at the back of the neck, which he attributed to his frantic efforts to wrench himself free when he first found himself impaled.

One-third natural size.

LATIN-AMERICAN MEDICAL CONGRESS.—The third Latin-American Congress will be held at Montevideo from January 13th to 20th, 1907, under the patronage of the President of the Republic of Uruguay, Don José Battle y Ordoñez, the Minister of Education and Public Works, Don Juan A. Capurro, and the Minister of Foreign Affairs, Dr. José Romeu. An Exposition of Hygiene will be held in connexion with the Congress. The Government has allocated a sum of 20,000 pesos for the purposes of the Congress. The previous meetings of the Congress were held at Santiago de Chile and Buenos Aires.