Bacillus coli, commenced during the third or fourth month. The vaccines were prepared by Dr. C. E. Jenkins, pathologist to the hospital.

Results of Treatment.

The total number of new patients for the years 1922-25 inclusive was 424; this figure includes only those in whom the gonococcus was identified, and consequently, although the total figures are considerably reduced, other forms of urethritis are confidently excluded. Of these 424 patients 150 attended for a period of one month or less and then disappeared, leaving 274 for consideration—134 of 1922-23, and 140 of 1924-25. In one-third of these patients it was not the first attack of gonorrhoea. The accompanying table illustrates and serves to compare the results of treatment; the figures are, however, probably more useful for purposes of comparison than as statistics, since a proportion of the patients did not complete their treatment. The numbers dealt with in each period remain, however, approximately equal. We believe that if home treatment by means of an outfit were replaced by hospital treatment at more frequent intervals much more satisfactory results would be obtained.

	1922-23 (Vaccine).	1924-25 (No vaccine).
Number of patients	134	140
Number without posterior urethritis	26=19%	16=11½%
Number with complications...	24=18%	42=30%
Number cured	66=49%	45=32%
Average period before a negative test	5 months	7½ months
Average incubation period 7 days.		

The figures in this table require some consideration. First, it is obvious that but few patients escape a posterior urethritis; secondly, the numbers cured are to some extent misleading, for of those who do not appear as cured the majority ceased to attend before a negative test was obtained, and many of these were about to reach this stage. The real interest lies in the comparison, and it is seen at once that the percentage of complications (arthritis, epididymo-orchitis, and rheumatism) was greater in 1924-25, the percentages of cures less, and the period of attendance before the first negative test was obtained longer than in 1922-23. It is again emphasized that save for vaccine treatment the routine was in all respects the same during these four years. Some small variations may be expected between different years, but to us it appears justifiable to attribute these marked differences to the vaccine treatment.

COMPLETE INVERSION OF THE UTERUS: RECOVERY.

BY

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THE very rare occurrence of the condition present in the patient whose case is described below is sufficient warrant for placing it on record, and particularly so, since the treatment adopted was followed by complete recovery. According to most authors, in only 30 per cent. of these cases is such an outcome to be expected.

A married woman, aged 37, was admitted to the Erville Lying-in Hospital, Cork, at 8 p.m. on September 17th, 1927, in labour; she complained of great pain on micturition, and the urine was found to contain blood. She was apparently a strong healthy woman, was the mother of ten living children, and had had three miscarriages. Her menstrual history was normal, and she had never suffered from any serious illness. She had a bad time on the occasion of the birth of her first child, the labour extending, according to her own account, over three and a half days. The placenta was retained and had to be removed manually.

At 1 a.m. on September 18th she gave birth to a male child weighing 11 lb. Profuse bleeding occurred after the child had been born, and the patient collapsed. A hypodermic injection of 1 c.cm. of pituitrin was administered, followed by brandy. After the lapse of half an hour expression of the placenta by the "Dublin method" was attempted, and sudden and complete inversion of the uterus took place; there had been no traction

on the cord. Shortly before 2 a.m. I was summoned by telephone and found the patient very bad indeed. The pulse was imperceptible, the face was covered with a cold clammy sweat, and the respirations were faint and fast. I was informed that a peculiar placenta was half delivered, and discovered the uterus with the placenta covered by membranes completely external to the vulva, and extending down nearly to her knees. It was quite evident that no time must be lost if the patient's life was to be preserved. I hastily came to the conclusion that anaesthesia was out of the question; the time that would elapse before I could have the assistance of my colleagues would have been fatal. The serious, almost dying, condition of the patient did not warrant my administering an anaesthetic and performing the necessary manipulations myself. By doing so I could not maintain satisfactory anaesthesia, and, moreover, it would have been impossible to keep my hands from becoming infected. In any case I did not think the patient was fit to take an anaesthetic. Having covered the lower abdomen and thighs with towels wrung out of normal salt solution I proceeded as follows. From where I could feel the edge of the placenta I tore through the membranes with my finger in the mid-line and completely swept them off the uterus all round. I then proceeded to separate the placenta and found that it was very adherent at the margin, but that towards the centre it had already separated from the uterine wall to a considerable extent; the cavity thus created had filled with blood, which by now was one large clot. I washed over the surface of the uterus with hot salt solution, and seizing the organ with my two hands I endeavoured to reduce its size by squeezing the blood from it. I kept up this pressure for a few minutes, and then, removing my left hand, grasped the now much diminished uterus with my right hand, and was able to return it completely within the vagina. Gentle upward pressure then at once restored it to its normal position.

Having replaced the uterus I now turned my attention to the general condition of the patient, who was practically unconscious and apparently dying. Another 1 c.cm. of pituitrin was administered hypodermically. Two pints of normal salt solution containing 1 drachm of adrenaline solution was injected into the axillae, and the patient was ordered 1/30 grain of strychnine with 1/100 grain of digitaline every four hours hypodermically. She was also given salt solution by the rectum every four hours. She regained consciousness at 5 a.m., and by that afternoon had apparently got over the grave shock, but she then complained of severe headache.

Her temperature that afternoon was 97.6° F., the pulse rate was 120, and the respirations 32. Rectal salines and hypodermics of strychnine and digitaline were discontinued. The temperature gradually rose to between 101° and 102° F., and she had a rigor on the third day. She was then given an intrauterine douche of cyllin solution, which was repeated every day for four days, and subsequently every alternate day for fourteen days. On the intervening days the vagina was douched with cyllin solution. She was also given ½ drachm of the liquid extract of ergot twice daily during this time. The temperature gradually subsided and she was quite well and out of bed on the twenty-second day. No further complications occurred, and she left hospital at the end of four weeks quite well.

Complete inversion of the uterus is said to occur only once in 250,000 cases, and is usually put down to the following causes: (1) traction on the cord; (2) too vigorous compression of the fundus; (3) sudden delivery, especially if the mother is standing; (4) exertion after delivery, as in coughing; (5) short cord of whatever etiology.

In this case none of these causes existed, except that pressure on the fundus was tried, as stated, to express the placenta. This, however, was performed by a highly skilled and very experienced nurse, and for that reason may be eliminated. Again, the condition is said to be more common in primiparae, and my patient had given birth to ten children.

Opinions are divided as to whether the placenta should be separated from the uterus before attempting to replace the latter. I have no doubt that if I had attempted replacement without previously removing the placenta I should have had considerable difficulty in doing so; if I had succeeded I should then have had much more trouble in removing the very adherent placenta with the uterus *in situ*, and the extra time involved would probably have been fatal to the patient.

The fact of the patient not being anaesthetized has been already explained. It would no doubt have made things easier for me if the patient had been under the influence of an anaesthetic, but I am satisfied that delay was out of the question, and that speedy replacement of the uterus and treatment of the profound shock gave the patient the only chance, and that a poor one, of recovery.

I am indebted to my colleague Dr. P. J. O'Brien, for whom I was acting on this occasion, for permission to publish this case. To him also is due a large measure of praise for the ultimate recovery of the patient, since he took over the case from me on the day after the birth, and continued in attendance on her till she left hospital.