not appear to hear. There was also a weak infrequent cough.

On the following day (the 26th) he had perfect movement in the respiratory muscles, though the breathing was slow, and there was a little wheezing on the left side. Temperature subnormal.

Nov. 27th.—Respiration 16; pulse 52; temperature 96° 6'. Abdominal reflexes nearly absent; tache cérébrale present on the abdomen, and to a less extent on the chest; knee-jerks weak; ankle-clonus present; posterior muscles of the legs rigid.

28th.—The patient tells me he was last week doing lead casting in the course of his employment, and the day before his attack was mixing red and white lead. At tea on the 25th he had shrimps, and it is probable that the action of the finger-tips in picking the shells off worked the lead from under the nails on to the fish, and, thus seasoned, he swallowed them, as he subsequently found lead under the nails. The gums showed the lead line well marked, and there was apparently no other source but the lead under the nails for the poison, as the lead was not touched in the process of casting or afterwards, nor was any other person in the house affected.

The question remains, what was the immediate cause of the paralysis and of its rapid disappearance? Shock alone would not account for it, because the pupils were not dilated, as is always the case, I believe; nor was the cutaneous circulation altered, nor would the small dose of morphia have had such widespread and permanent effect on the sympathetic. The course the pain took was that of the stomach and œsophagus; this indicates implication of the pneumogastric nerve. The symptoms and the result of the treatment confirm this view. To take the last first. The improvement in respiration and pulse can be accounted for if, looking upon the case as one of inhibition of the respiratory centre by the vagus, we remember that atropine injected in even the smallest doses has the power of preventing this inhibitory action of the vagus. Indeed, this was what first gave me a clue to a rational explanation of the observed phenomena. The inhibition was no doubt set up by excessive stimulation of the gastric terminal branches transmitted to the central ending of the nerve by its main trunks, and through the respiratory centre could have caused the slowing of the heart; this was very considerable, if the rate of the breathing is compared with it, the usual proportions being reversed. The temporary paralysis of the palate might be accounted for by regarding it as part of the respiratory system. The known unequal excitability of the branches of the vagus might account for the absence of change in the voice. The continuance of action of the phrenic nerve on the right side can only be accounted for by supposing that the respiratory centre was unequally affected. I forgot to say that soon after the pain ceased the urine was passed; a later sample showed merely excess of phosphates and urea. The amount was slightly in excess of the normal quantity. The bowels were confined on the day following the attack. My remarks are based on the third edition of Landois and Stirling and on Foster's text-books.

Queen's-crescent, N.W.

Clinical Notes:

MEDICAL, SURGICAL, OBSTETRICAL, AND THERAPEUTICAL.

NOTE ON A

POINT OF DIFFERENCE IN THE PATHOLOGY OF GOUTY AND RHEUMATOID ARTHRITIS.

By E. T. WYNNE, M.B. CANTAB.,

HOUSE PHYSICIAN, ST. BARTHOLOMEW'S HOSPITAL.

THAT both these diseases produce deformities of joints is well known, and the deformities are described as due in the one case to deposition of urates, in the other to changes in the hard tissues of the joint. But there is a change in the bony structures of joints met with in many cases of articular gout which at first sight would seem to bring these two diseases (formerly confounded, now clearly separated) into

closer connexion with each other, but which I hope by my description to show really marks a new, and, if my interpretation of the condition is correct, a radical difference between them. This change has been recognised and described before, but its microscopic characters have, I believe, never been carefully investigated. Cornil and Ranvier mention it roughly in their work on Pathology, but their description differs entirely from what I have myself found. The condition is best seen in the knee. On examining such a knee through the skin, the margins of the articular surfaces are felt to be more protuberant than natural; and on opening the joint the articular cartilage appears to have been squeezed out by pressure, so as to produce a "lip" or ridge around the margin. This lipping has a superficial resemblance to the condition seen in early rheumatoid arthritis, often described as a heaping up of the cartilage at the free margin. A closer examination shows radical differences. In rheumatoid arthritis such an outgrowth is found microscopically to consist of cartilage in a state of fibrillation, which may in parts be calcified, but which rarely shows ossification. I have examined microscopic specimens of extreme cases showing ossification; but the outgrowth is found even in the most advanced cases to have a complete investment of cartilage. The outgrowth is therefore a chondroma produced by overgrowth of the articular cartilage. Now, looking at a specimen of gouty arthritis, the opalescent cartilage is seen to stop short at the summit of the outgrowth, and microscopic sections show the same. Such a section taken at the edge of the joint shows the cartilage healthy, except for senile changes, becoming a little thinner at its outer extremity, and terminating at the summit of the protuberance, the rest of the outgrowth being covered with a thin layer of fibrous tissue, continuous with that of the periosteum and synovial membrane. The outgrowth presents the appearance of a sprouting of the cancellous tissue of the epiphysis, carrying the cartilage before it. It is, in short, an exostosis. This condition is met with in joints the seats of uratic deposits, and in those showing erosions of the cartilage (probably formerly the seat of uratic deposits), accompanied by deposition of urates in other joints. I have examined a number of such joints, and have found the condition constant. I have never met with it in rheumatoid arthritis. In explanation of this difference between these two diseases, I would suggest that the outgrowths in rheumatoid arthritis are the result of a dystrophy of the joint—possibly of neurotic origin,—whereas those of articular gout are the result of irritation, either from deposition of urates in the neighbourhood, or more probably from the circulation through the bone of blood containing an abnormal amount of urates. Whether this be the true explanation or not, the fact itself seems of sufficient interest for attention to be called to it.

St. Bartholomew's Hospital.

RUPTURE OF FIBULAR TENDON OF BICEPS FEMORIS.

By ERNEST F. NEVE, M.D., F.R.C.S. ED.

K. M.—, a male, aged about twenty-eight, on June 13th, 1885, whilst running across a field, felt a crack and some pain. He was able to limp home. When I saw him on the 14th, I could find no trace of the fibular tendon of the biceps on the right side. With the leg bent at right angles to the thigh, the posterior aspect of the head of the fibula could be distinctly felt, but the attachment of the tendon was not distinguishable. A slight swelling, painful on pressure, was felt at the postero-external aspect of the lower third of the thigh. Three inches above the upper border of the patella the circumference of the limb was increased by three quarters of an inch as compared with its fellow. On the 15th a portion of tendon two inches in length, freely mobile, could be felt attached to the fibular head. The injury was treated by moderate flexion. The position was found by the patient to be very irksome. By the 25th the swelling had abated half an inch, and the tendon was beginning to stand out as a ridge; its sheath appeared thickened. On July 8th there was no pain on manipulation, but a slight limp in walking, though the patient could walk a mile without discomfort. From this date the patient improved steadily for a time.

On March 21st, 1888, I had an opportunity of again

examining this patient. The measurements, taken as before, showed now an increase of half an inch in the right limb as compared with the left. The tendon did not stand out in the same relief as on the healthy side. When the muscle was put into action, the tendon could be felt distinctly, but it was nearer the middle line than normal. There was slight but unmistakable weakness on that side in running, and the man seemed inclined to save the right leg somewhat. In swimming, some want of power was complained of; also, after riding, local fatigue was felt.

I have reported this case for the following reasons. Firstly, because the injury is exceedingly rare, and is not especially mentioned in any of the surgical literature to which I have access. Secondly, the final result tends to indicate that a suturing operation might have achieved a more perfect cure. The question of operation was raised within two days of the injury, but was negative on consultation.

Kashmir.

A NEW TREATMENT OF ACNE.

BY JAMES STARTIN,

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THE successful treatment of acne—especially acne comedones and acne rosacea—always appears to be of some considerable difficulty. In addition to the ordinary treatment of acne by careful attention to diet, the use of chalybeates and vegetable acids, medicines, and sulphate of lime, and applications of sulphur and zinc, I have recently obtained some very good results in a number of cases by using a vaporiser or steam producer, to which can be added the drug for the purpose of treatment. This process of steaming the skin of the face is not only very beneficial to the complexion itself, but speedily removes impurities and black specks, such as are seen in acne comedones, and the redness of acne rosacea. This handy little instrument or vaporiser consists of a small kettle

A, Vaporiser. B, Boiler. C, Cage. D, Movable glass measure. E, Stand with spirit lamp. F, Glass funnel for more accurate direction of spray. J, Small collar for fixing glass funnel.

set in a framework (B), with a non-conducting handle, over a spirit lamp; the vaporiser (A) projects from the kettle like an ordinary scent vaporiser, the end of which tube is inserted into the glass measure (D) attached to the frame containing the drug required to be used to the skin. The whole apparatus is much the same as the carbolic spray producer now used, only smaller. Its beneficial action consists in its power to assist the functions of the pores and to cleanse the skin of all impurities, and is very similar to the Turkish bath in its effects on the skin generally, and, like it, is delightfully refreshing to the skin. As soon as the steam is produced in the vaporiser, it can be applied at about a foot and a half from the patient, for twenty minutes or half an hour, and the face should then be gently rubbed over with a soft towel. This handy little instrument can be used with benefit also in all diseases that affect the throat, lungs, mouth, ears, and eyes—such as diphtheria, croup, bronchitis, laryngitis, and asthma.¹

Directions for use.—Screw on the handle; take the little boiler (B) from the cage (C); unscrew the vaporiser (A), fill the boiler with water with the exact quantity contained in

the measure (D), and replace it; then lift the cage (C) from the stand, and fill the lamp (E) with spirit; replace the cage; fix on the funnel (F) by pushing its fork into the collar (J), and fill the glass vessel (D) completely with water and two drachms of benzoin tincture or any other drug necessary to suit the case. If a more powerful spray be desired, use the vaporiser without the funnel.

Sackville-street, W.

TRICHINOSIS.

BY DAWSON F. D. TURNER, M.B., C.M., B.A. EDIN.

THE following case may be of interest to some of the readers of THE LANCET.

At a post-mortem examination lately held in the Vienna Krankenhaus upon a man who died of carcinoma of the oesophagus, it was found that his muscles were studded by innumerable white calcareous nodules, which on microscopical examination turned out to be encapsuled trichinae. With the single exception of the heart, all his muscles seemed to be pretty equally affected. This condition had been quite unsuspected; but it was found, on consulting the patient's previous history, that twenty-six years ago he had suffered from a very severe attack of muscular rheumatism—so severe, indeed, as to keep him for some months in bed. As under the microscope the trichinae seemed to be in an excellent state of preservation, and even seemed to show some signs of life, it became a matter of much interest to put this to a definite test, and accordingly some rabbits were fed upon the diseased tissue, with the result that when (after the expiry of three weeks) one of them was killed and examined trichinae were found in numbers in its muscles and intestine. This period—viz., twenty-six years—is believed to be the longest yet recorded in which encapsuled trichinae have been observed to retain life, and to be capable under suitable circumstances of active propagation. The longest previously recorded case was one of thirteen years, observed by Virchow after the Hamburg epidemic.

Vienna.

A Mirror

OF

HOSPITAL PRACTICE, BRITISH AND FOREIGN.

Nulla autem est alia pro certo noscendi via, nisi quamplurimas et morborum et dissectionum historias, tum aliorum tum proprias collectas habere, et inter se comparare.—MORGAGNI *De Sed. et Caus. Mort.*, lib. iv. Prooemium.

PADDINGTON INFIRMARY.

CASE OF HYSTERIA MINOR AND "OVARIAN PHENOMENA" IN A MALE SUBJECT; REMARKS.

(Under the care of Dr. SAVILL.)

IT is not very uncommon to meet with the "hysterical state" in the male, but it is unusual to see an attack of hysteria in one, at all events in this country. "The subjects are usually boys about the age of puberty or men from thirty-five to fifty years of age, and its causes are excessive venery or masturbation, over-work with long-continued worry and anxiety, violent shock, senile degeneration, and commencing chronic cerebral disease."¹ In the lectures on Nervous Diseases by Dr. Wilks there are cases given in which the following symptoms developed: laryngismus, aphonia, spasms, convulsions, and malleation. Other cases are recorded. The case which Dr. Savill mentions as present in the ward at the time the symptoms came on in the case which we publish below, is that of a hawker, aged twenty-nine, who had had fits for five years. He had persistent contracture, analgesia, and anaesthesia limited to the upper extremity, which had been present for two years and a half. In London hospital practice it is rare to see hysteria developing as the result of injury, although it does undoubtedly occur at times.

Charles G—, aged twenty, who had been a shoeblick

¹ The apparatus can be obtained at 29, Ludgate-hill.

¹ Roberts; Practice of Medicine, p. 888.