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## CONTAGIOUSNESS OF ENTERIC FEVER.

DY ARCHIBALD E. MALLOCH, M.D., HAMILTON.
(Read before the Canadian Medical Association, August 5th, 1874.)

Mr. President and Gentlemen,-It is still an unsettled question whether or not Enteric Fever is contagious in the strict sense of the term. Dr. Wm. Budd holds that it is, and gives this as one of the proofs of its being a specific fever: whereas, Sir C. Murchison says,* "Although Enteric Fevtr is communicable, my experience is entirely opposed to the view that it is contagious in the strint sense of the term. Visiting or contact with the sick is neither sufficient nor necessary to produce it, and it is never propagated by a third person." Dr. Murchison holds that it is not a specific fever, and that it arises de novo from decomposing vegetable or animal matter, hence the term pythogenic which he gives to this fever.
Having had, during 1873 , several cases of Enteric Fever which seemed to prove the contagiousness, in the strict sense of the term, of this disease, I thought it might be interesting to detail the cases and the circumistances under which they occurred.

The notes which were taken while waiting for the mercury to rise in the thermometer placed in the axilla, have been abbreviated, but they are sufficient, I hope, to characterise the majority at least of the cases as Enteric. Exception may be taken, however, to the cases Nos. VII. and VIII, but reasons will be given for their being so classifed. The temperatures given are those of the morning.

[^0]Case I.-July 15th, 1873 .-Yesterday I visited Edward W——, et. 25. Machinist. A history of not having been well for thee weeks, but only off work for ten days, and confined to the house for five, was given. He had suffered from "chills and sweats," with headache ; had lost his appetite and been thirsty. To-day he is in as feverish a condition as yesterday, and his boweis have been moved four times without an aperient; there is tenderness in R. Iliac fossa, and several rose colored papules are seen on the abdomen. Pulse, 96 ; respirations, 28 ; temperature, $104 \frac{7}{6}^{\circ} \mathrm{F}$. ; cough troublesome ; expectoration, white, tough, frothy mucus, streaked with blood. Ronchi heard over chest generally, and a few bubbling râles at bases behind. Milk ad libitum, and poultices to chest were ordered along with the use of an acid and quinine mixture given yesterday.
July 16th,--Slept pretty well ; three motions, semi-solid and of a pale yellow colour. Pulse, 96 ; respirations, 32 ; temperature, $104^{\circ} \mathrm{F}$.
July 17th.—Slept well; has taken three pints of milk; t.aree motions, the last is like pea soup; spots, at first noticed fading and others appearing. Pulse, 94 ; respirations, 28 ; temperature, $103{ }^{\circ}{ }^{\circ} \mathrm{F}$.

July iSth.-Six motions like pea soup, for which four pills of lead and opium were taken during the night ; vomited once. Pulse, 94 ; respirations, 26 ; temperature, $10 x^{10} \mathrm{~F}$.

July rgth.-Six motions; vomited twice; got tirree pills of lead and opium. Pulse, 96 ; respirations, 28 ; temperature, $1022^{\circ} \mathrm{F}$. Tongue, dry, brown in centre and red at edges.

July 20th.-Eight loose motions. Pulse, 90 ; respirations, 24 ; temperature, $102^{\circ} \mathrm{F}$.

July 21st.-Slept well ; four motions. Pulse, i6; respirations, 24 ; temperature 102 $\tilde{y}_{6}^{\circ}$. During the night a bloody purulent discharge came from the R. ear, which is to be syringed twice a day with luke-warm water; there had been no complaint of ear-ache.

July 22nd.-Three motions. Pulse, 70 ; respirations 24 ; temperature, $1002_{5}^{\circ} \mathrm{F}$. Tongue not so dry, and clearing in centre.

July 24th. Two motions. Pulse, $7^{2}$; respirations, 18 ; temperature, $99 \frac{2^{\circ}}{} \mathrm{F}$.

July 26 th. -Three motions yesterday and one to-day. Pulse, 72 ; respirations, 22 ; temperature, $100{ }_{5}^{\circ} \mathrm{F}$.

July 27 th. -No change.

July 29th.-Pulse, 78 ; temperature, $100^{\circ} \mathrm{F}$. 1 among the members of three cther families who One motion daily.

July 3 oth.-Complained of abdominal pain| to contagion,-and in corroboration of this view, during night, and this morning a copious motion, | viz., of the poisonous emanation, it is to be reapparently composed of blood alone, was passed. I marked that he alone of the family of three, slept At present he is sweating profusely; abdomen distencied with flatus, but not tender. Pulse, 88 ; temperature, $995^{3} \mathrm{~F}$. Has taken two pills of lead and opium, and is to have one every three hours.

July 3 ist.-Has passed a good deal of flatus; no motion. Pulse, 96 ; temperatur. $101^{\circ} \mathrm{F}$. Tongue red and glazed.

August ist.-Two mrtions of pretty firm consistency; no blood. Asks for solid food, but only milk allowed. Pulse, 80 ; temperature, $99^{\circ 8} \mathrm{~F}$.

August 3rd.-Thice motions since last note; bread with milk allowed. Tongue not so glazed. Pulse, So ; temperature, $998_{5}^{2} \mathrm{~F}$.

August Sth.-Convalescent.
E. W- worked till the ist of July, when he accompanied the firemen to Port Hope, where he was taken with headache and pain in the back. On his return to the city on the and, he went to a ${ }^{\prime}$ farm a few miles distant and remained there till the 7 th or Sth, when he came home and took to his bed. Before leaving for Port Hope he had been feeling "out of sorts," and had remarked to his mother that he "was going to have a sickness." His dwelling, a one and a half storied rough-cast house, situated on the corner of King William and Mary streets, has an underground cellar but poorly ventilated by two small windows. The cellar is flooded in the spring and fall, and can i.e used only during the dry seasons of summer and winter. The streets are not draired, but the house is built over an old drain which is now closed at both ! ends, thougn not filled up in its length. The house, as well as the Appleton Sewing Machine Factory at which he worked, is supplied with the city water, and he is quite certain that while in Hamilton he never drank other than this water. At the farm and probably at Port Hope he drank well water. The milk used was from their own cows. He had not visited any sick person.

In all likelihood this case was caused by the emanations from the old unused drain, for no other probable cause can be found,- -the water used up to the ist, when he became ill, was the city water which comes direct from Lake Ontario, and the milk was uncontaminated, for no case occurred
in the room down stairs immediately over the cellar.

So far as can be found, this case arose de neio, for no other cases had occurred previously in the neighbourhood (strict inquiries were made), and this was the first case reported to the Fever Committee of the Hamilton Medical and Surgical Society for the summer of 1873 .
E. W-_'s motions, not disinfected, were thrown into the common privy in the yard.

Case II.-Aug. 22nd, i873.-Rebecca B-, æt. 16. Has been feeling sick for eight or ten days, but only confined to bed for three ; has had chills and sweats, with severe headache, of which she chiefly complains. (She is a niece of Edward W., and went to her grandfather's house on the 17 th of July to assist her grandmother in nursing and to do the washing and cooking. She remained with them till the r4th of August, when she accompanied a lady as her servant to Hespeler, and on that night was seized with severe headache and pain in the back, and on the following day returned to Hamilton and went to her father's house).

Anorexia marked; thirst great; bowels con. fined ; perspired freely last night; tongue moist Pulse, 96 ; temperature, ro4 ${ }^{\circ \circ} \mathrm{F}$. No tenderness in R. iliac fossa, and no spots. Milk ordered, and I 5 minims of dilute hydrochloric acid in water every three hours.

August 23rd.-Slept pretty well ; headache not so severe; no motion. Pulse, 92 ; respirations, 16 ; temperature, $104^{\circ} \mathrm{F}$. Tip and edges of tongue red, centre coated with white fur. To get a dessertspoonful of castor oil.

August 24th. - Five motions, the last is watery, with ochery coloured flakey masses in it. Little sleep. Headache continues. Pulse, 90 ; respirations, 20 ; temperature, $103 \frac{3}{3}^{\circ}$ F. 15 grains of hydrate of chloral ordered at bed-time. The motions which were thrown into the privy in the yard, are in future to be carried at once and buried at some distance from the house.

August 25 th.-Slept well; headache relieved; no motion. Pulse, 86 ; respirations, 24 ; tempera. ture, $103 \%^{\circ} \mathrm{F}$.

August 26th.-Slept well. Pulse, 92 ; respirn- rooms opening into the larger one, are on a level tions, 20 ; temperature, $103 \frac{8}{6}^{3} \mathrm{~F}$. Takes plenty of with the street; below there is a store-room and milk.
Augi:t 28th. -One motion, semi-solid, of a light jellow colour; has a slight cough. Ronchi heard here and there in chest. Pulse, 98 ; respirations, 24.
August 2 gth.-One motion. Slept well. Pulse, 92 ; temperature, $\operatorname{tos}^{\circ} \mathrm{F}$.
August 30 th. - One motion. Slept well. Pulse, no ; temperature, rot ${ }_{6}^{3} \mathrm{~F}$. Is quite deaf; no earache. Tongue moist and clean. Gurgling in R. Iliac fossa.

August 3 rist.-Foner motions like pea-soup. Pulse, 90 ; temperature, $10 \frac{1}{6}^{\circ} \mathrm{F}$.
September ist.-Four motions. Temperature, $100^{\circ} \mathrm{E}$.
September 4th.-Was seen each day, but no notes were taken. Bowels moved each day; appetite returning. Pulse, $\mathrm{S}_{4}$; temperature seems normal.
September 17 th. - Has been sitting in the rocking chair since last note, and has been allowed, contrary to orders, to eat what she liked. For three days she had been feverish and thirsty, and to-day complains of abdominal pain. Abdomen distended and tender. Pulse, 100 ; respirations, 30 ; tempera-

September 18th.-Five loose motions. Abdomen not so tender. Pulse, 100 ; temperature, $101{ }^{\circ} \mathrm{F}$.
September 19th.-Four loose motions. Pulse, 104; temperature, 10240 ${ }^{\circ} \mathrm{F}$.
September 2oth.-Slept well and feels better. Palse, 84 .
In a day or two she was allowed to sit up; and sin did well till the 13 th of October, when she hat another relapse, which confined her to bed for four or five days. Convalescence afterwards adranced to complete recovery.
As the preceding cases are those which impressed me 11 th the contagiousness, $\because$ this disease, it may be as well now to direct your attention to the family of E.B., into whic' the fever was imported. The family, which consisted of the father and mother and the children, who then numbered eight, had occupied for some years the house No. ${ }^{216}$ North John street, on the north-east side ot the railway embankment, which is 20 feet high ; ind during that time no case of fever had occurred. The sleeping apartments, consisting of two small
kitchen, lighted only from the back, and never used as a sleeping apartment, which communicates with the rooms above by a closed-in stair built outside of the dwelling. The house, excepting by its situation on the edge of the embankment, is not drained. The well behind the house, which is in close proximity to three privies, supplies them and three other families with water, and was used by them up to, and for three weeks contrary to directions after, R. B.'s return home. The city water was afterwards used by the family. The other families, who continued though warned, to use the well water, did not take the fever. The milk was supplied by their grandfather, who sold it to other. families, who did not contract the disease; the milk cans were wrinsed in city water. $U p$ to the 24th August, R. B.'s stools, not disinfected, were thrown into the privy, but afterwards they were taken and buried at the bottom of the railway cutting, as were the motions of the succeeding cases. No member of the family, with the exception of the father, mother and R. B., visited their grandfathers house, which is nearly a mile distant from theirs, during E. W.'s illness.

Caise III.-August 28th, 1873.-A. B., female, æt. 6 years. Acid mixture was prescribed on the 26th when my attention was first directed to her case. During the past two days she has been in a high fever, and the bowels have been loose. Pulse, 120 ; respirations, 50 . Tongue red and dry. Snoring railes heard over the whole chest. Poultices to the chest ordered.
August 29th.-Raved during night; had little sleep; takes very little milk, but drinks large quantities of water. Five loose motions. Abdomen swelled, and tenderness in R. Iliac fossa. A few rose coloured papules on abdomen. Pulse, I 35 ; respirations, 48 ; temperature, $1032-5^{\circ} \mathrm{F}$. 8 grains of chloral hydrate to be given at bed-time.
August 30 th. - Dosed most of the night. No motion. Tongue moister; has taken $11 / 2$ pints of milk. Pulse, 136; respiration, 52, temperature, $103^{\circ} \mathrm{F}$. To take mixture containing Vin ipecac and Sp. ammon. ar.

August 3rst.-Five loose motions of a light yellow colour ; passed three round worms. Three or four new spots on abdomen. $1 \frac{1 / 2}{}$ pints of milk taken. Cough softer. Pulse, 136 ; respira tions, 50 ; temperature, $103^{\circ} \mathrm{F}$.

September 1st.-Two pints of milk taken. Tongue brown and dry ; lips cracked. Pulse, 136 ; respirations, 40 ; temperature, ror $3-5^{\circ} \mathrm{F}$. Two loose motions Seven round worms passed. To take acid mixture.
September 2nd.-Slept well; tongue moister. Abdomen larger. One loose motion. Pulse, 140 ; respiration, $3^{6}$; temperature, $102^{\circ 1} \mathrm{~F}$.

September 3rd.-One loose motion. Pulse, 140 ; respiration, 40 ; temperature, $102^{\circ} \mathrm{F}$.

September $4^{\text {th }}$.-Did not sleep so well. One pint of milk taken. Abdomen tympanitic and tender. Seven loose motions. Pulse, 130 ; respirations, 40 ; temperature, $101^{\circ} \mathrm{F}$. To have 3 grains of chloral hydrate at bed-time.
September 5 th. -Slept well ; taken $1 / 2$ pints of milk. Seven loose motions. Pulse, 120 ; respirations, 40 ; temperature, ror $^{3} \mathrm{~F}$.
September 6th.-Taken $I \frac{1}{2}$ pints of milk. Six loose motions. Fresh spots on abdomen. Pulse, 130 ; respirations, 36 ; temperature, $10023^{\circ} \mathrm{F}$. To take chalk and catechu mixture.
September 7 th. -Six motions. Slept well. Pulse, 108 ; respiration, 30.
September Sth.--Three motions. Slept well. Pulse, 126; respiration, easy ; temperature, $992-5^{\circ}$ F. Abdomen not so tense. There are several rose-coloured blotches on body and two on face.

September ioth.-Two motions. Pulse, ino; respirations, 28 ; temperature, $992-5^{\circ} \mathrm{F}$.

September 15 th. -One motion daily since last note. Takes plenty of milk. Abdomen still tympanitic. Pulse, 115 ; respiration easy; temperature, $100 \mathrm{I} .5^{5} \mathrm{~F}$.

September 17 th.-Puise, 18 ; respirations, 38 ; temperature, ror $2.5^{\circ} \mathrm{F}$. Wheezing in chest greater. Poultices ordered.

September 20th. -Three motions since yesterday. Pulse, 134; respirations, 34. Quinine was added to the acid mixture.

No rurther notes were taken. Child recovered.
On the supposition of contagion, the period of incubation in this case must have been from six to seven days, for R. B. returned on the 15 th and A. B. was in the second week of the fever (from the presence of the spots) on the 2gth. This period is shorter than that usually allotted, but equally short perio.'s have been observed.

Case IV.-September 20th, $1873 .-M i n n i e ~ B ., ~$ æ.. 8. Has been languid and lying about the
house for several days, and for two days has com. plained of headache. There is thirst and loss of appetite. Pulse, 100 ; temperature, $994-5^{\circ} \mathrm{F}$. Ordered milk and acid mixture.

Octobe: and.-Was not confined to bed till the 31 st of September. Bowels confined. Vomited once to-day. Face flushed. Tongue moist, covered with greyish white fur in centre ; its tip and edges red. Pulse, 120 ; respirations, 30 , temperature, 103 1.5 F. No spots. Abdomen natural. No gurgling.

October 5th.-On the 3rd, got a dose of castor oil, which operated three times. Has vomited several times ; does not take much milk. Tongue not so moist ; lips dry and cracked. Pulse, 116; respirations, 30 ; temperature, $1032-5^{\circ} \mathrm{F}$.

October 7 th.-Was restless during night. One motion since last note. Pulse, ino ; respiration easy; temperature, $103^{\circ} \mathrm{F}$.

October $13^{\text {th }}$.-Bowels moved by castor oil. Pulse, 96 ; temperature, roi $\mathrm{I}-5^{\circ} \mathrm{F}$.
October ${ }^{15}$ th.-Pulse, 84 ; temperature, $1003^{\prime}$ Sleeps well; does not wish for solid food; thirst moderate.

October 2 Ist. - Bowels moved once daily since last note, till last night, when diarrhœa set in Eight characteristic motions passed. Pulse, 120 ; respiration easy, slight cough ; temperature, 104 $2.5^{\circ} \mathrm{F}$. Abdomen tympanitic and tender. Poultices to abdomen and one pill of lead and opium ordered every four hours.

October 22nd.-Slept pretty well. Ten loose motions, but none during last three hours. Abdomen very tympanitic. $11 / 2$ pints of milk taken. Pulse, 130 ; respirations, 28 ; temperature, $104^{\circ} \mathrm{F}$. To have 25 minims of laudanum in a teaspoonful of thin starch as a clyster after each motion.

Octuber 23 rd.- Was restless and complained of abdominal pain during night. Three motions Pulse, 134; respiration easy; temperature, 103 $2-5^{\circ} \mathrm{F}$. To get ten grains of chloral hydrate at bed-time.

October 24th.-Restless night. Six motions. Pulse, 140 ; temperature, $104^{\circ} \mathrm{F}$.

October 25 th. -Slept pretty well. Two motions Pulse, 130 ; temperature, $1032-5^{\circ} \mathrm{F}$. Aromatic sulphuric acid and quinine mixture ordered.

October 26 th. -Restless night. One motion Abdomen less tympanitic and not so tender. Pulse, 130 ; temperature, 103 I- $5^{\circ} \mathrm{F}$.

October 27 th. -Slept well. One motion. Pulse, $13^{2}$; respirations, 34 ; temperature, $102^{\circ} \mathrm{F}$.
October 29 th.-Slept well. Two motions. Pulse, 122 ; temperature, $1022-5^{\circ} \mathrm{F}$.

October 31.-Slept well. Three motions. Pulse, 120 ; temperature, $103^{\circ} \mathrm{F}$.

November and.-No motion during past forty. eight hours. Pulse, 120 ; temperature, $992-5^{\circ} \mathrm{F}$.

November 3rd.-Three motions. Pulse, 116; temperature, $100^{\circ} \mathrm{F}$.

Noveniber 7 th.-Sleeps well and now asks for solid food. Pulse, 100 ; temperature, $100^{\circ} \mathrm{F}$.

November gth.-Is sitting up in bed. Pulse, 98; temperature normal. A little solid food allowed.

## November 12.-Convalescent.

Case V.-October rith, r873.-Emily B., æt. 15.-Three days ago she had an epileptic fit, (for two years she has been subject to them, which occur generally before each peried of menstruation), and since has been suffering from pains in her limbs and back, from headache, loss of appetite and thirst. Pulse, 96 ; respiration earv; temperature, $1001-5^{\circ} \mathrm{F}$. Ordered milk diet and the acid mixture.
October 13th.-Pains in limbs continue, but not so severe. Has slept well. One dark colored motion each day. Menstrual discharge present. Putse, 96 ; temperature, iot $\mathrm{I}-5^{\circ} \mathrm{F}$.

October 18th.-Has slept well. During last two days has vomited frequently and now complains of epigastric pain, but this region and that of R. Iliac fossa are not tender. Gurgling present. Tongr: clean ; edges very red. Pulse, 96 ; temperature, isI $4-5^{\circ} \mathrm{F}$.

October 2rst.-Abdominal tenderness. Two loose motions. Pulse, 94 ; temperature, $103^{\circ} \mathrm{F}$.
October 22nd.-No motion. Pulse, 96 ; temperature, $1032-5^{\circ} \mathrm{E}$.
October 24 tt. - One motion. Pulse, 96 ; tem. perature, $1024-5^{\circ} \mathrm{F}$.
October 28th.-One motion. Pulse, so ; tem. perature, $1022-5^{\circ} \mathrm{F}$.
October 29th.-Had a fit during night. Four loose motions containing blood during night. Pulse, 100 ; temperature, $100^{\circ} \mathrm{F}$.
October 30th.-Three loose motions; has vomited frequently. Pulse, 100 ; temperature, 103 $4-5^{\circ} \mathrm{F}$. Lime water to be added to milk.
November 2nd.-Feels much better; has a
slight cough. Three motions since yesterday. Pulse, 84 ; temperature, sor $2-5^{\circ} \mathrm{F}$.
November 4th.-Four loose motions. Pulse, 94 ; temperature, $103^{\circ} \mathrm{F}$.

November 7 th. -Four loose motions. Pulse, 98 ; temperature $104^{\circ} \mathrm{F}$. Abdominal tha 2 ness slight.

November gth.-Three loose motions. Temperature, $1002.5^{\circ} \mathrm{F}$. Abd. m men and chest covered. with sudamina.

November 12th.-Four motions. Pulse, 100 ; temperature, $1002-5^{\circ} \mathrm{F}$. A fit this morning.

November 16th.-Keeps well; is inclined to eat solid food. Pulse, 96 ; temperature, $99^{\circ} \mathrm{F}$. Fecls much better.

Recovered by December ist.
Case VI.-November 12 th.-Ada B., æt. $3^{1 / 2}$ years. Has been cyanoic since birth. The duskiness, though general, is chiefly observed on lips, fingers, toes, earc, tongue, etc. Eyeballs prominent and congested. Fingers and toes bulbous. Her mother states that when she takes cold, which she does very easily, her breathing becomes short and laboured; in other respects she has been quite healthy. She is an exceedingly bright, active and intelligent child, and is the pet of the house. Apex beat in line with nipple; cardiac dulncss slightly increased; no murmur. On Sunday the 9th she had a severe chill, followed by abdominal pain and pain in head, of which she now complains. Has slept but little; thirst great. On the ioth she passed three loose, watery motions, and yesterday four. Abdomen swollen, tense and painful. Pulse, over 120 ; very weak; respiration, 26 ; temperature, $104^{\circ} \mathrm{F}$. Poultices to abdomen. Milk diet and acid sulph. ar. mixture ordered.
November 13th.-Pulse, 130; respirations, 26; temperature, $1032.5^{\circ} \mathrm{F}$. Slept pretty well. Five loose motions. Abdomen not so tense. Lips dry and cracked. Took one pint of milk.

November 14th.-Two loose motions. Abdomen much the same. Did not sleep so well. Pulse, over 126 ; temperature, $103^{\circ} \mathrm{F}$.

November r 5 th.-Slept pretty well. Bowels moved frequently in bed, apparently without control. Motions very watery. Pulse, 134 ; temperature, $1024-5^{\circ} \mathrm{F}$.

> B - Plumb. Acetat., grs. ij.
> Pulv. Doveri, grs. iij.-M.

Fr. -Pulv. et mitte tales. X.
Sig.-One every 3 hours.

November 16th.-Slept well. Taken one pint of milk. Three motions. Pulse, roo; temperature, $10 r^{\circ} \mathrm{F}$. Acid mixture resumed.

November 17th.-Slept well. One motion. Pulse, 120 ; temperature, $1004-5^{\circ} \mathrm{F}$.

November 19th.-Slept well, and takes plenty of milk. One motion. Pulse, 108 ; temperature, $99^{\circ} \mathrm{F}$.
November 2 ist.-Sleot well, and takes plenty of milk. Asks for bread and butter. One motion yesterday and to-day. Pulse, 96 ; temperature, $982-5^{\circ} \mathrm{F}$.
November 22nd.-Sudamina on chest and abdomen. Feels and looks much better; plays with her toys.

November $25^{\text {th }}$.-Is s:tting up in bed, laughing and playing.

Convalescent.
Case VII.-November 16, $1873 .-$ Sarah B., æt. 7 years. Has been complaining more or less for a week or ten days past, but as she was not confined to bed, my attention was not directed to her till to-day. She has been dull and heavy, and has complained several times of being chilly; at times she has been quite hot and feverish. She is thirsty and has lost her appetite. There has been no vomiting or diarrhœa, but the bowels have been moved each day without medicine. Pulse, 120 ; respiration easy; temperature, $1012-5^{\circ} \mathrm{F}$. Tongue moist and covered with a white fnr, except at the tip and edges, which are red. No spots or abdominal pain.

November ifth.-Slept well; headache gone. Pulse, 100 ; temperature, ror $4-5^{\circ} \mathrm{F}$.

November 19th.-Takes plenty of milk; no desire for solid food. Pulse, roo; temperature, $1002-3^{\circ} \mathrm{F}$.

November 21st.-Pulse, 100 ; temperature, roo $2-5^{\circ} \mathrm{F}$. Bowels confined for two days.

November 25th.-Pulse, 98 ; temperature, $100^{\circ} \mathrm{F}$.

No further notes taken, as patient gradually recovered without a bad symptom.

CASE VIII.-November 28th, 1873.-Robert B., æt. 40 . Was taken ill he thinks on the 24 th, and since that time has suffered from pain in his back and limbs. He continued at his work as a switchman till to-day, when he was compelled by weakness and the pains to keep to the house. Has lost flesh and has little or no appetite; is
thirsty. Pulse, 76; respiration easy; temperature, $100^{\circ} \mathrm{F}$. Bowels moved by medicine. Tongue clean, but indented at the edges. Milk and acid mixture ordered. Confined to bed.

November 29 th. -Slept well. Has taken $1 \frac{1}{2}$ pints of milk and a little toast. Complains of dull aching pain in small of back. Bowels moved once without medicine. No abdominal pain; no spots. Pulse, 84 ; temperature, $100^{\circ} \mathrm{F}$.
November 3 cth.-Pulse, 82; temperature, $100^{\circ} \mathrm{F}$. One motion.

December 2nJ.-Slept well. Two motions during last twenty-four hours without medicine. Pulse 70 ; temperature, $992-5^{\circ} \mathrm{F}$. Quinine with acid mixture ordered.

December 4th.-Bowels moved each day. Pulse, 80 ; temperature, 99 3-5 ${ }^{\circ} \mathrm{F}$.

December 6th.-Has taken plenty of milk and some bread; has no inclination for solid food. One motion each day. Got out of bed yesterday, but was glad through weakness to return to it at once. Pulse, 72 ; temperature, $982-5^{\circ} \mathrm{F}$.
December 12th.-Has been out of bed each day since last note. His strength is returning and also the appetite. Bowels have been regular. Convalescent.

Cass IX.-December roth, 1873.-Frederick B., æt. 2 years. Has been ailing, his mother says, for more than a week past, during which time his bowels have been loose. During the day he always seemed better, and my attention on this account was not directed to him ; but each night he has been hot and feverish. He has lost all appetite and has been very thirsty. Limbs soft. Pulse, 120 ; temperature, xor $3-5^{\circ} \mathrm{F}$.

B-Plumb. Acetat.
Pulv. Doveri, aa. gr. i.-M.
Fr.-Pulv. et mitte. tales, VI.
Sig.-One every 4 hours.
December inth.-Passed a restless, feverish night. Two loose motions. Abdomen lympanilic and painful. Several spots noticed on abdomen. Pulse, 135 ; temperature, $102^{\circ} \mathrm{F}$. Is taking a pint of milk daily.
December 12 th., At night is restless, but during the day sleeps a good deal. Six loose moticins passed in bed. Tongue white in centre and red at edges. Pulse over 130; temperature, 103 $3-5^{\circ} \mathrm{F}$.

December 13 th. -Two loose motions. Restles

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night. Pulse about the same ; temperature, $103^{\circ} \mathrm{F}$.
December 15 th.-Siept well; takes plenty of milk. Three motions, not so watery as before. Temperature, $1034-5^{\circ} \mathrm{F}$.
December 17th.-General appearances better; is very cross, One motion. Temperature, $102^{\circ} \mathrm{F}$.
December 19th.-Asked to-day for bread. One motion. Pulse, 1 I 8 ; temperature, roi $4-5^{\circ} \mathrm{F}$.
December 23 rd. -On the 2 ist the bowels were loose, but since have been costive. Is livelier and wishes to play, but is very weak. Pulse, 104; temperature, $984-5^{\circ} \mathrm{F}$.
December 27 th.-Sleeps well, and now takes solid food. Strength returning. Pulse, 108 ; temperature normal. Bowels moved each day. Convalescent.
It has been, and may be disputed whether or not similar cases to Nos. VII. and VIII. should be called enteric ; but the fact that these two occurred in succession to undoubted cases of this disease, and were followed by one marked case of Enteric Fever in a child, will be sufficient proof to many that these were mild examples of the same disease. These were cases of fever, and by exclusion they can be no other than enteric, though wanting the rasi and enteric symptoms. The duration was too great for simple continued fever; and I know not any class of fever excepting Enteric to which they could be assigned.
Regarding the absence of enteric symptoms, it may be as well to quote the following sentence from the last edition of Sir Charles Murchison's treacise on continued fever, page 647: "In most of the mildest cases of enteric fever, there is never at any time diarrhœea, the absence of which is in itself a favourable indication.
With the facts that have been stated there seems little need of giving reasons why the spread of the disease should be thought due to simple contagion, without the aid of polluted ingesta, which are the ordinary means by which it is carried from one to the other. The disease was not spread by the water, for the city water which was used during most of the time is pure, and could not have been contaminated; and the well water which was drunk by them for a few days after R. B.'s return did not give rise to it in the other families. That other families used milk from the same source without infection, is proof that it was not the cause nor the means of its spreading.

The stools of R. B., passed during the first few days of her illness, were thrown into the common privy: but it is hardly credible that the air polluted by them should have affected those using the place two months afterwards, especially when we remember that these were the cold months of October and November. It is most probable that the disease was spread by the contaminated air in the house, or by actual contact-one body with the other.
Former experience had led me to believe what is generally taught, that the disease is not in the strict sense of the term, contagious; and even now, while believing fully in its contagiousness, I must consider it but mildly so, for imported cases have occurred in large families under my care without spreading, and that without the use of disinfectants, but in houses well ventilated and under far more favourable circumstances for the | isolation of the patients.

May not the cases which follow in succession in a house, and which are generally attributed to the cause which produced the first, be due frequently to contagion?

These cases have taught me that it is as much the duty of the physician to order the use of disinfectants to the motions, clothing, \&c., and in the room, as to prescribe for the patient under his care.

## PATHOLOGY AND TREATMENT CF VARICOCELE.

BY J. LIZARS LIZARS, SURGEON, TORONTO.
Notwithstanding the fact, that every student of medicine and medical man, at one time or another, has had an intimate knowledge of anatomy ; nevertheless, the lapse of time-fortunately for the human race-begets forgetfulness, and therefore I begin this article with a refresher, (not of the kind used in the Tichborne trial) on the anatomy of the spermatic veins and other constituents of the spermatic cord, as, by a correct knowledge of their anatomy, can the surgeon alone properly diagnose and treat the affection under consideration.

Leaving out of view the skin, superficial fascia, or fatty layer beneath the skin-which, however, be it remarked, diminishes very sensibly in thickness as we descend from the abdomen to the scro-
tum-and the delicate layer formed by the prolongation of the inter-columnar fascia, we find the cord proper, composed of the cremaster muscle, the prolongation of the infundibuliform process of the fascia transversalis, the sub-peritoneal fatty layer-which, like the superficial fascia, loses its fatty matter more and more as it descends-the spermatic vein, the spermatic artery, nerves and the vas deferens.

Now, first let me point attention to the spermatic veins. These commence in a plexus around the seminal tubes, and leave the testicle at its posterior border, between the reflections of the tunica vaginalis (visceral and parietal layers), then form a plexus around the cord which ends, usually', in one vein ere it enters the inguinal canal. In this part of its course, it lies superficial and rather external to the artery and vas deferens, and keeps this relation through the canal. The right vein, dividing into two branches in the abdomen, passes along with the artery for some distance ; these then join to form one vein, which, leaving the artery, enters the vena cava ascendens obliquely, its current thus mingling easily with the upward current of the vena cava. In its upward passage, the right vem lies rather internal to the caput cœecum coli. The left vein, after entering the abdomen, like the right, accompanies the artery for a time, but finally leaving the artery, pours its stream of blood into the left renal vein, at a rig't-angle with the current of the latter. Furthermore, in its passage upwards, it is crossed by the sigmoid flexure. In these anatomical relations of the two veins, we have the explanation of the fact observed in practice, viz., that varicocele is more frequent on the left than on the right side. The right vein is unobstructed by accumulations of hardened fæces pressing upon it, and its current flows in the same direction as the major current it has to join; whereas the left vein is liable to be pressed upon by hardened frcal matter in the sigmoid flexure of the colon, and its small current is liable to further obstruction, as it has to empty itself at a right-angle into the greater current of the left renal vein.

In structure, these veins, like others, possess a delicate internal lining membrane, with epithelium, a middle partially elastic and muscular coat, and an external one of connective tissue ; the middle coat being weak. Veins do not contract like arteries, and so, when subject to pressure from within,
are more liable to dilatation than the latter, and have not the same power of regaining their normal size ; at the same time they become elongated and tortuous, or varicose.

The spermatic arteries having emerged from the external abdominal ring, posterior and internal th the vein, but rather external and in front of the vas deferens, pass downwards towards the posterior border of the testicle, dividing and becoming very tortuous, and after giving branches to the epididymus, are distributed to the testicles.

The vas deferens, having left the epididymus, passes upwards, rather behind and internal to :ee other structures of the cord, to the external inguinal ring. In this course, it is straight, and can be at once recognized by its firm, whipcord-like feel, when grasped by the thumb and forefinger.

The nerves supplying the testicle are branches of the spermatic plexus of the sympathetic. They reach the organ along with the spermatic artery. The nerves supplying the cremaster and other structures of the cord are, the subdivisions of the inguinal branch of the ilio-inguinal, and genital branch of the genito-crural.

Varicocele consists of a dilated and excessively tortuous state of the spermatic veins, between the epididymus and the external abdominal ring, where it ends-never, except in rare cases, continuing through the canal. The dilatation may be dependent upon weakness of the coats of the veins, the consequence of previous phlebitis ; the deposit of tubercular* matter between the coats ; destruction of the valves, more or less complete ; the presence of phlebolites, or the simple forcing back of the current by obstruction of any kind.
Although a person might think, after having seen a well marked case of varicocele, that it must be impossible to mistake it for any other disease; nevertheless, surgeons and physicians of considerable eminence have mistaken it, especially for hernia. (Only a few weeks ago, a young man consulted me, wishing to know if there was any radical cure for hernia. On making an examination, I found he was wearing a very elegant trus, that he had a large varicocele, and that his medical attendant had assured him he was ruptured and must wear a truss for the rest of his life.)

[^1]Such being the case, we must look carefully at its diagnostic points:
From hydrocele, by its not being transparent, not fluctuating, and by its disappearing when in the recumbent position, and re-filling on again assuming the erect position.
From hæmatocele, by want of fluctuation, subsidence on lying down, etc., as above.
From all tumors of the testicle, by the last-mentioned sign, and by freedom from pain on pressure.
From hernia, by its beginning from below and extending upwards, stopping at the external inguinal ring, want of impulse on coughing, absence of any sound on auscultation or percussion, and in all of these by the peculiar "bag-of-worms" feeling when manipalated between the finger and thumb. As, however, cases may arise where the veins have suffered from acute or chronic inflammation, matting them together, thickening their coats, and throwing out deposit around them, the surgeon cannot always rely on the peculiar feel of the tumor, but must take the history of the case and the other tests as his guide to diagnosis.
With regard to the treatment of this disease, some surgeons (authors) consider it such a trivial complaint, that they advise it to be left alone; others content themselves by ordering the patient to wear a bag-truss ; others add to this, evaporating lotions, astringents-as bathing the parts with cold water, tan-bark water (hemlock or white oak bark), ointments of tannin or gall nuts, etc. Some patients, however, are so annoyed by the extremely pendulous nature of the diseased organ (reaching, as it may, half way down the thigh, thus totally unfitting the sufferer from horseback or other exercises), that something more radical must be doneUnder these circumstances, operative surgery comes to his relief, and a great number of means have I been devised at different times, and by different surgeons, to obtain this end. Some of these I may mention, but it would take up too much of your space for me to describe them all.
Ist. Adhesive plaster may be applied, as for orchitis. Tedious and irksome.
2nd. Collodion, or Rich.ırdson's colloidal styptic. Tedious and irksome.
3 rd. A portion of the lower part of the scrotum may be removed by the knife or scissors, the testicle having first been pushed well up and kept out
of the way by an assistant, and the edges of the wound then brought together by sutures.
$4^{\text {th. A }}$ A longitudinal incision may be made, to expose the veins, and pledgets of lint inserted and left in, until suppuration takes place, and the veins become obliterated by the inflammation. (Surgeon's vade mecum.)

5th. The veins may be divided subcutaneously, and a pad or bandage (or adhesive plaster) applied, as after bleeding.

6th. A truss, as for hernia, may be worn, pressing on the vein, but (if possible) not on the artery. (Curling, as reported in Holmes' System of Surgery, ist. Ed., vol. 4, p. I4.)

Various other modes of obliterating the enlarged veins have been adopted, and I shall now detail one I have used successfully.
B. G., a gentleman of education, æt. 35, and over five feet in height, having suffered from varicocele of the left spermatic veins, and having tried cold water, astringents, the suspensory bandage, and ultimately a well-fitted truss, without avail, consulted me several months ago, desirous to have some more definite treatment, and willing to undergo any operation. I deternined upon ligation of the enlarged veins, two in number. I accordingly adopted the method proposed by M. Ricord. (See Guerin's "Chirurgie Operatoire," and described also in Holmes' "Surgeons of England," rst Ed., p. 614, by Mr. Curling.)

The vas deferens, known by its situation and whipcord-like nature, and the spermatic artery or arteries, known by their pulsation, having been made out and separated from the veins, and en trusted to an assistant ; the veins are then, with the superficial structures, seized by the left hand and pulled gently forward and away from the vas deferens and artery; whilst, with the right hand, is passed a needle, with an eye at its point and set in a handle, armed with a thread of silk or silver-wire, behind the veins. The point having emerged through the scrotum at the opposite side, the loop of ligature is taken up with forceps, and drawn out an inch or more, and the needle withdrawn. The needle being again armed with a thread, is introduced through the opening of exit iof the last, and passing between the veins and the skin, is made to emerge at the opening of entrance of the first ligature. The thread being again seized as before, and the needie withdrawn, we have now
a double ligature, both below and above the veins, and a loop at each side. Now pass the free ends of the ligatures through the loops on their respective sides, and by making gentle traction on the free ends, the loops will gradually disappear be neath the skin, and finally constrict the veinsThis being accomplished, the ligatures on each. side may be made fast, as in a quilled suture (two small corks answering the purpose well). No particular pain or inflammatory action took place. The bowels were regulated by diet, and at the end of fifteen days I drew the ligatures away through the one side, showing that the veins had been divided, and the blood from the testicle had found rew channels for its return to the body. The patient has since kept well, and quite relieved from his former annoyance.

Although the operation described has relieved the patient for the time, and, it may be, permanently, it is well to let him wear his suspensory bandage and use cold ablutions during warm weather, and inform him that the same causes which originally produced the disease, may cause its return; for, should it return, it will save the surgeon from blame.

For the following modification of the knot used in securing the veins, I am indebted to my patient.

Take one thread, double it and place it between the middle and ring fingers, with the loop to the back of the hand. A second thread is then placed double between the fore and middle fingers, with the loops to the palm. Now pass the free end of the single thread nearest the tip of the fingers of the upper two through the lower loop, and the free end of the single thread nearest the palm of the under series, upwards through the upper loop, and pull gently on both free ends in opposite directions, and you will find that the middle finger (representing the vein to be ligated) is firmly con. stricted by a single thread, and that if this thread is slipped off the finger (representing the division of the vein), the two double threads will separate from one another, and can thus be drawn out of the orifices by which they respectively entered.

By adopting this knot, but one strand encircles and constricts the vein, and you are saved the trouble of pulling a knot and the double thread of one side completely across the parts from opening to opening.

In conclusion, I would remark that, fifty years
ago, any interference with a serous membrane was looked upon as excessively hazardous; and my late uncle, Prof. Lizars, of Edinburgh, was spoken of by Liston and Syme as reckless of human life, and deserving punishment for manslaughter, consequent upon his introducing the operation of ovariotomy to the notice of British surgeons. * What is now the verdict of the profession? In the same manner, surgeons at that time had a holy horror of any interference with veins, as by section or liga. ture, although hardly a day would pass that they did not open one or more to "let blood." Now. a-days, the surgeon does not hesitate a moment about tying a vein during an operation, if deemed necessary, and, according to my own observation, without any particular inconvenience.

Such being the case, I can see no sufficient reason to deter us from giving patients such relief as we can, by operating on cases of varicose veins, even though that relief may be but temporary.

ACCIDENTAL POISONING FROM THREE AND A QUARTER GRAINS OF STRYCH. NINE.

UNDER THE CARE OF DRS. CARBERT AND HENRY, ORANGEVILLE, ONT.
(Reported by Dr. Carbert.)
Thinking that an account of the above case, with the treatment pursued, might b : interesting to the readers of the Canada Lancet, I have taken the liberty of sending it for insertion in your valuable journal.

On Sunday morning, August 9th, of the present year, I was sent for about nine o'clock, to see a young man of the name of George Finlayson, of this town, a cooper by trade, who was reported to be dangerously ill On proceeding to the place I found the patient sitting by the counter in ose of our principal drug stores. There was a cot. lapsed appearance about the case, with constatt twitchings and spasm of the muscles. He comr plained of having lost the use of his legs, and fet a great dizziness, with confusion of ideas. I wis informed by the proprietor of the store, that os the previous evening he had mixed some worm powders for the patient, consisting of thirtea

[^2]grains of santonine with some scammony and rhubarb; that he had intended to divide the powder into three, but had ultimately made four doses of it, and that the patient had taken one of them about thirty minutes previously. I learned from Mr . Finlayson himself, that in two or three minutes atter swallowing the powder, he felt ill, but had nevertheless taken a few mouthfuls of breakfast afterwards, when, finding himself getting rapidly worse, he got two of his comrades to assist him to the drug store where he had procured the medicine. I at once saw that a serious mistake had occurred, and the druggist-greatly alarmed-candidly informed me that he was afraid he had given strychnine instead of santonine. I immediately had the patient carried up stairs, and proceeded to administer an emetic of thirty grains of zinci sulphas. Some little confusion ensued in getting him up stairs, and it would be from thirty-five to forty minutes from the taking of the powder until the administration of the emetic. Having waited four or five minutes, and no emesis taking place, I gave forty grains more, and procuring some warm coffee, I gave him four or five cupfuls in rapid succession, and soon afterwards a copious vomiting ensued. It was, however, with great difficulty that he could be induced to swallow anything, as every attempt at deglutition produced violent spasms of the muscles of the pharynx. I attempted to administer chloroform by inhalation, but the patient resisted so violently, that I employed two or three persons to rub the upper and lower extremities and the whole length of the spine with it, giving at the same time dram doses internally. A mixture of spts. camph., tinct. valer. and tinct. aconit. ras given every five minutes. This treatment was pursued for three hours, with intervals of relief; but, on the whole, the case gradually grew worse. The convulsions and tetanic spasms increased in violence, and I requested a consultation. D:. Henry, of this place, was called in. This gentle. man fully approved of the treatment which had been pursued, and suggested the application of ice to the nape of the neck, which was immediately adopted, although, from the violent convulsions, it was with great difficulty that any application could be made. No relief having been obtained, we gave half a grain of sulphate of morphia, and injected hypodermically into the arm a solution of veratria; but, from the violent actions of the
patient, this was only partially performed. The constant use of chloroform and sulphuric ether had filled the room with the vapour of these drugs, which the patient constantly breathing, had, to a great extent, the same effect as direct inhalation, every attempt at which was violently resisted. Notwithstanding all our efforts, the case grew more desperate-the spasms and convulsions were frightful to behold; trismus set in-the patient became unable to swallow anything; the veins of the head, neck, and face became highly turgid, and a state of insensibility ensued, which lasted for about three hours, although the convulsions hardly ever ceased. During all this time the thorax and neck were rubbed with sulphuric and hydrochloric ether, with what effect, or if with any, cannot be distinctly told. About six hours after swallowing the poison, the convulsions culminated in two of the most frightful and protracted attacks of opisthotonos either of us had ever beheld, and for a moment afterwards we pronounced the patient dead. A deep gurgling in the throat with two or three spasmodic attempts at inspiration, however, convinced us of our mistake, and the patient began slowly to rally. The breathing which was as low as seven per minute began to improve, the trismus relaxed, and partial consciousness returned. The respiration, however, was at this time almosi entirely abdominal, the muscles of the trunk being violently contracted, held the chest completely rigid and immovable. The spasms, however, were less violent, the breathing, although sighing and difficult, gradually improved, and after the lapse of nine hours from the taking of the deadly drug we entertained hopes of his recovery. These happily proved correct, for the spasms after having continued altogether twelve hours, ceased, and the exhausted sufferer sank into a comparatively quiet slumber. After an uninterrupted attendance of fourteen hours we retired, exhausted and stupified with the etherous vapours we had so long inhaled. On visiting the patient next morning he was found to be perfectly conscious; there was, however, a considerable amount of cerebral congestion with fever present. Bags filled with ice were kept to the head, and a saline mixture with tinct. aconite administered. The case rapidly improved; the bladder slowly, but gradually, recovered its functions; the bowels after an enema became regular, and on the third day after the accident our citizens
were astonished at seeing the sick man out on the street, complaining only of debility and weakness in the extremities. During the whole attack the condition of the patient's pulse was favourable, generally ranging at 90 and rising occasionally to 125 per minute. During the first part of the attack the muscular contractions were more violent in the lower than in the upper extremities; in the latter part of the case the upper extremitics, including the face and neck, were most violently affected. When consciousness had fully returned the face, and especially the nose, was for many hours affected with a violent itching.

The above may be regarded as a plain statement of facts without any attempt at theorising. It is quite possible that more scientific measures might have been adopted in the treatment, but in the hurry and excitement of a violent case, experienced for the first time in a practice of twenty-two years duration, little time is allowed for reflection, and still less for reference to recognized authorities. All that the practitioner can hope to do is to carefully note the symptoms and treat them as they occur. The quantity of strychnine can be accurately estimated. Thirteen grains were weighed out, and having been triturated with the scammony and rhubarb were divided into four powders, each of which must have contained $31 / 4$ grains, quite sufficient to cause dedth, according to all recognized authority. For many hours the case was considered utterly hopeless, and either from the inherent strength of a good constitution, or from the treatment adopted, or perhaps from both combined, life was prolonged until the violence of the poison had exhausted i.self.

## Cintue paudme.

## DR. KERR'S DYSENTERY REMEDY.

To the Editor of the Lasicer.
Sir,-As a good deal has been said lately about Dr. Kerr's various combinations for dysentery diarrhœea, $\& c$ c., and as I have now given the medi' cine a lengthened trial, I beg leave to give the readers of the Lancet the result of my experience. The first case in which I tried the digitalis combination was of diarrhœea occurring after labour, which run into chronic dysentery. I tried all my
remedies, and at last was at my " wits end "-when Dr. Worthington, of Clinton, being called in con. sultatic n, proposed Dr. Kerr's digitalis combina. tion, and within one week the patient was com. pletely cured. Without it I feel sure the woman would have died, as nothing seemed to have any permanent effect upon the disease.

My attention had previously been drawn to the medicine by Dr. McLean, of Goderich, who-to use his own words-said it was "the greatest dis. covery in medicine tinat had taken place during the present century "-but I had delayed getting it, and it was not until Dr. Worthington recom. mended it that I resolved to try it.
The next time I used the medicine was in ser. eral typhoid fever cases, and I never found anj. thing answer half so well in the diarrhœa attending this disease. It never failed to control hemorrhage from the bowels, an l give the patient five or sir hours of peaceful sleep, which no other remeds ever did in my hands. After the patients once had a good trial of it, they would take no other remedy, they were so thoroughly satisfied of its efficacy. I would recommend it in such cases with all my heart. I have used it also in the wasting diarrhœa of the last stage of phthisis, and have had the patients asking with tears in their eyes for "that green powder." Here the sleep was quieter and more natural, with less injurious effects on the appetite than any other remedy I could use. The digitalis combination was used in all the abore cases, but in the diarrhœa of children I have invariably used the squill combination, uniting it with $\frac{1}{12}$ gr. of opium or more, according to the age of the child. I feel satisfied that it saved the life of my own child, a boy of seventeen months: He was fifty miles from home, along with his mother, when the diarrhoea began, and it was er tirely unchecked for eight days. At last his mother got alarmed and started for home, but br this time there was nothing but blood and slint going through him, and the tenesmus was painfu to witness. The child had ceased taking nourish ment-was fevered and very much weakened Not having any of Dr. Kerr's medicine on hand, I went to work with my other remedies, carrying out the most approved treatment as rec. ommended by West and other authurs-with ditt ing, bathing, injections, \&c., \&c.; but all was ${ }^{\text {d }}$ no use, it was only checked for a time, and cam?
on again with renewed vigor. I felt that my little, tional cases, I have never tried, as the other two boy was going to go, and I telegraphed to Dr., combinations always answered my purpose. I Kerr, of Galt, for his squill combination, and I|merely write to draw the attention of medical men began using it in grain doses, with one-twelfth of a ' to what-along with Drs. Worthington, McLean, grain of opium in each powder, every three or four hours, and from that time forth there was no difficulty, a ferv days completing the cure. A powder given at bedtime would give him a calm night, free from pain or dysentery, whereas he used to be tossing about, and would have about a dozen motions during the night. The only bad effects I observed in his case was the seeing of unreal ob-jects-the little fellow would point at them play fully, then shrink back, as if attempting to escape from somebody. Since that time I have used the medicine in cases similar to this with equally happy effects. I have also given it without the opium to crying babies, where mothers were dosing them with soothing syrup, and here the result was excellent. In reference to the use of the medicine in the above diseases, Dr. McDonald, of Wingham, holds as high testimony in its favour as I have done. .
A short time ago I had two cases of acute dysenter: occurring on the same day; one was an old lady of over seventy years of age, and when I first saw her, the stools were nearly pure blood. I used the digitalis combination with opium every three hours so as to suspend the action of the bowels and procure sleep. I then directed them to be stopped until she awoke nicely up, and had another motion, and after that to be guided by the motions. I gave directions of course as to diet, and left. Next day word was sent "that the old lady was geting along so well I need not go out, but I might go out on the following day and decide for myself." I did so, and found her nearly cured, and the stools natural in appearance, though still somewhat loose. I left a few powders, and never saw her again. She was soon after walking around. Another case of acute dysentery occurred in my practice during the night following the day on which the above case occurred, blood nearly pure passing. I treated it the same as above, leaving plenty of the medicine, as the woman-who, by the way, was rather a delicate one-lived ten miles out of town. I never saw her again. She got rapidly cured, and to-day is loud in her praises of "those green powders."
The third combination, intended to meet excep-
and McI)onald-I regard as a valuable discovery in medicine, for which Dr. Kerr, of Galt, deserves all praise. If those who doubt the efficacy of the medicine would only give it a fair trial, they would soon be convinced.
J. Campbell, M.D.

Seaforth, Aug. 1, 1874.
[We have received communications from several medical men all bearing testimony to the sfficacy of Dr. Kerr's combination for dysentery. In malarious districts the addition of quinine will be found serviceable.]-Ed. Lancet.

## COLLEGL OF PHYSICIANS \& SURGEONS, NEW YORK.

To the Editor of the Lasicit.
Sir,-I would wish to occupy a portion of your available space this month in calling the attention of the profession to a theory of syphilis of somewhat late date and unique character, as expounded by Dr. F. N. Otis, Clinical Professor of Venereal Diseases in this College.
Dr. Otis is of opinion that the specific virus of this dissase consists of a cell of infinitesimal size, which cannot be appreciated $t y$ the most powerful microscope, which, when applied to an abraded surface, multipies fissiparously, and forms an indurated mass consisting of myriads of these cells in conjunction with altered connective tissue; and that if left to nature, these cells are taken up by the white corpuscles of the blood by an amœboid movement, assuming at first a semi-lunar form, the points of the crescent meeting so as to enclose the virus cells. The learned Dr. believes the Hunterian chancre to be purely local for a certain time, and the period of incubation the time not when the poison is increasing in the circulation, but when the virus cells are at their place of deposit, and are merely multiplying until they attain sufficient numbers to cause a local swelling. He also considers the chancroid local, and thinks that the discharge of the chancroid is the result of a true ulcerative process, but the breaking down of true chancre is the result of pressure from the increase of the elements
of the part and distended vessels-death from excess of life, or "necro-biosis," as he calls it. He likewise affirms that the discharge of true unirritated chancre consists of nothing more than exfoliated epithelial cells; but that when irritated by caustics, \&c., the pus and virus cells are secreted. He says the tendency of chancre is proliferation; of chancroid, exfoliation, the latter poison being eliminated by its own discharge. He also states that syphilis may occur without chancre; in proof of which he quotes the well known case of Dr. Mott, who, while serving as surgeon during the civil war, amputated the leg of a syphilitic soldier, and was pricked by a spiculum of bone. In 48 hours he had pain in the course of the lymphatic glands to axilla, with swelling and redness, followed in six or eight weeks by roseola, and in four months by sore throat, caries of nose, Sc.
Assuming, then, that true chancre is local, what means should be taken to remove effectually the danger of constitutional difficulties?
Dr. Otis answers the question in this way. If the proliferated virus cells are situated on the prepuce or loose areolar tissue surrounding the penis, extirpation by the knife en masse is the surest, quickest, and least painful procedure. He operates thus: The patient is anæsthetized, the parts. knife and hands of the operator are bathed in an antiseptic solution, as Condy's fluid or carbolic acid solution, and a number of ligatures are passed beneath the base of the tumor (chancre) at a little distance from the margin. The knife is then passed between the sutures and the tumor, completely removing the same, and leaving a clean, healthy surface. The ligatures are then tightened and tied, bringing the parts into perfect apposition. Union by first intention takes place in 3 or 4 days. He has operated many times, and has not seen secondary symptoms follow where the glands were not involved. I saw Dr. Otis remove a large true chancre in the manner described above; in a week the patient appeared exhibiting no signs of it save a small piece which had not been removed. I leave any remarks on the subject to those more competent to criticise than myself. Should I have misapprehended any of Dr. Otis' remarks (which were not derived from his brochure on the subject, but from noies of his lectures on the spot, ) he has my apologies and retractions.
G. Sterling Ryerson.

SUPERNUMERARY BREASTS IN A MALE.

## To the Editor of the Laxcart.

Sir,-Having had occasion to examine a man in this city a few days ago for life-insurance, I was surprised, on examining his chest, to find two well marked mammæ (rudimentary of course) on each side. The normal mammæ were in the usual situa. tion, and presented the ordinary ar pearance. About one inch and a half below each of the above, and three-quarters of an inch to the inner side, was a secondary or supernumerary mamma perfectly formed and about $1 / 4$ the size of the normal one. The surface of the chest, with the exception of these parts, was covered with hair, and these naktd spots, each with its small projecting nipple, gave the chest a very peculiar appearance. Never hav ing seen anything of the kind before, I was very much impressed with it, and thought it not un. worthy of record, and hope you will give it a place in your valuable journal.

Yours \&c.,
Medicus.
Toronto, Aug. 24, 1874.

## §lettal ghtictus.

## ARSENIC IN CANCER-AN OLD REMEDY REVIVED.

Dr. Fordyce Barker, (N. Y. Med. Record), de scribes in the following terms, an application for cancer which has been in use for many years-lor centuries perhaps :
"I will now describe the plan of treatment 2 i given by Dr. Marsden-the plan which he pro. fesses to have derived great success from, not oulf in a very considerable number of cases of cancer of the breast, but in the treatment of cancer of r . rious parts of the body, and even of cancer of tos neck of the uterus. This method of treatmenti limited to cases in which the surface of the tumot does not extend over two (2) inches. Care should be taken that the paste is of sufficient consistenct so as not to flow beyond the point to which itis applied. The general formula for the preparation of the caustic is to combine arsenious acid an mucilage in such quantities as to make a thid paste, and the formula commonly employed as this purpose is: R. Arsenious acid, 3 ii ; mucilesg 3i. This paste is spread over the surface of $t \begin{aligned} & \\ & 0\end{aligned}$ tumor, and two or three layers of lint spread orid that. The lint absorbs all the surplus pasteat protects from farther cauterization. The first H
plication is left on for twenty-four or forty-eight hours, according to the extent of surface, and then removed by gently soaking it with warm water. After the old paste has been removed in this way, one judges from the impression made with regard to a farther application of the caustic. These applications are to b: continued until a line of demarcation entirely surrounding the diseased structure is shown. Then the lint is soaked and removed, and a bread-and-water poultice applied, and changed every few hours. At first there is sometimes considerable inflammatory action set up, but the amount of pain is very inconsiderable as compared with the use of the knife, and the process of cicatrization is equally painless and satisfactory.
The shock to the system, as a rule, is very much less. The constitutional effect of the arsenic in this case was very slight, lasting only a few hours, and then passed away. Indeed, the moderate constitutional effect of arsenic 1 have long believed to have a certain positiveness in the treatment of cancer, in that it retards the proliferation of cancerous tissue. I mention these cases with the hope that it may contribute something to our knowledge of means by which we may meet this most terrific disease."-Pacific Med. Fourral.

## THE SECRETION OF GASTRIC JUICE.

There is something unpleasant in having one's old views and theories exposed as false. We have all been accustomed to believe that the secretion of gastric juice was an intermittent phenomenon, and that it only occurred when the stomach was initated by some stimulus of a mechanical or chemical nature. Dr. Braun gives an account (in Eckhard's Baitràge für Anatomie und Physiologic, Bd vii.) of some experiments which make i robable that the gastric juice is secreted just line the urine, continously. He produced gastric fistulæ in dogs, and irritated the mucous membrane of the stomach with sponges, gravel, alkalies, and bits of meat, and he found that the amount of secretion, estimated by removing it with a sponge, was unaltered in each instance, nor was it increased by the presence of the saliva either of dogs or of man. Moreover, no relation was found between the secretion of saliva and of the gastric juice; for a stimulus which increased the amount of saliva did not increase that of the gastric juice, and vice versa. According to Braun, the mucous membrane of the stomach is but rarely covered with mucus; usually it secretes a fluid which has an acid reaction. If fuid-for example, a $r$ to 2 per cent. solution of urea, or a x per cent. solution of common saltbe injected into the femoral vein in large quantities, the gastric juice becomes more abundantly secreted; and that the increased secretion is really
gastric juice is shown by its acid reaction and by its digesting albumen. It sometimes, however, requires the addition of a little hydrochloric acid to give it digestive power, and this fact Dr. Braun compares with that observed by Manasseinnamely, that the acid is deficient in the gastric juice of animals which are rendered acutely anæmic. Dr. Braun's experiments are interesting and extremely important if confirmed by other observers but there is the positive evidence of such men as Beaumont and Claude Bernard on the other side, which should make us hesitate in accepting them too eagerly.-Med. Times or Gazefte.

## HYDRATE OF CHLORAL.

## by alexander g. burness, m.b.

This drug is so widely used in the present day as an hypnotic, that it may not be out of place to call attention to some of the cases in which its use is contra-indicated, the more so as several cases have been reported in which its use has been attended with sorious or fatal results. The physiclogical action of chloral is no doubt due to its decomposition into chloroform and formic acid by the alkali of the blood, as stated by Liebreich, and chloroform being thus slowly evolved, the oxidation of the blood is lessened, as well as the evolution of carbonic acid; it is also probable, as has been recently stated, that the chloral may in the system enter into combination ith albumen, and thus its decomposition may be retarded in some cases.

Bearing the above in mind, we can easily see how the use of chloral is contra-indicated in many lung affections, especially bronchitis and emphysema, where, by lessening the oxygenation of the bloo ', it would tend to produce lividity, or even febri.' symptoms, with delirium. Dr Sidney Ringer states that this is especially the case when emphysema and bronchitis are accompanied by obstructed circulation, in which case the effects may last several days.
Dr. Pollak (see Medical Times and Gazette, April 11th) also believes chloral to be unsuitable, or even dangerous, in diseases of the lungs and heart.

Chloral is likewise contra-indicated in many cases where there is heart disease, for several cases are on record where the administration of chloral has been followed by sudden faintness, weakness, and irregularities of pulse, great prostration, dyspncea, and even death, these effects being probably due to the direct action of the chloroform on the heart, and in some states of the system the chloroform may be more quickly evolved than in others: thus, in an experiment conducted by Mr. F. J. Mavor and myself, 4 oz . of chloral dissolved in 40 oz . of "ater was given to a horse, and five minutes afterwards he fell down insensible, the pulse increased from 36
to 5 , but was feeble, almost imperceptible, purils fully dilated, muscles relaxea, irequent sighing and complete anessthesia; the temperature gradually fell from $100^{\circ}$ to $905_{5}^{2 \prime}$; while in another experment the same quantity was given to the same horse dissolved in 10 oz . of water, only producing restlessness, drowsiness, purging, dilation of pupils, and in an hour and $\varepsilon$ half, delrium, followed by slight sleep.

Choral is likewise contra-indicated in diseases of the intestinal caral ( Dr . Pullak), being liable to cause irritation and purging, eapecially if given in a tou concentrated solution.

It is advisable rot to continue with the administration of this drug for a very long period, as cases are known in which mal-nutrition of brain and nerve centres has been induced, with loss of memory and muscular strength, and in some cases imbecility and paralysis.

Lastly, chloral should bo used with caution in parturition, as in may in some cases exercise a deleterious effect upon the child, as it is not so rapidly eliminated from the system as chloroform. Further research on this poini is required. In conclusion, I may say, this subject is deserving of investigation, consideriug the reckless manner in which syrup of chloral is used by the liity as an hypnotic in all forms of disease, with, in many cases, serious results; and it is clearly the duty of the medical ficfession to thoroughly investigate its chemical, physiological, and therapeutic action so as to ascertain in what diseases it may be used with safety. Medical Tines and Gazette.

## TUMOUR OF LATERAL PORTIUNS OF THE LOWER JAW REMOVED WITHOUT EXTERNAL WOLND.

## BY O. F. MAUNDER, LONDON HUSPITAL.

Fibrous Epulis.-F. S., xet. 35, married, was admitted into the London Fospital on May 15, 1873, having been referred to Mr. Maunder by Dr. Dove, of Pinner.

Hisrory.-She stated that about a year and nine months ago, she noticed a decayed molar tooth on the right side of the lower jaw. She removed a portion of it at the time, and not long afterwards observed a growth springing from the situation of the decayed tooth. It gradually extended itself along that side of the jaw. A surgeon removed the tooth which was believed to be the cause of the growth, and afterwards the tumour. In six weeks from the time of removal it appeared again, and was a second time removed. It made its appearance a third time, and gradually increased in size. She has been free from pain throughout. On examination, the growth was found to occupy the original site of the molar teeth. It had very much the
appearance and consistener of gum tissum hypertrophied and indurated. It encroached considerably on the hone below the level of the alvelus, aspecially on the inner side, was very firmly adherent to it throughout its extent, as though growing from it, and the surface was enntinuous with the mucous membrame lining both the check and the floor of the mouth. Thus only rome portion of the outer surface and the mere line of the hase of this part of the bone were frem from the growth. There was no evidence of glandular affetion, and nothing to contra-indicate an onemation, although the patient had not a rohust arpearance.

Operation (May 21, 1873).-The patient was seated in a dentist's charr, and the head comfortably and convemently supported, in order that howd should readily flow out at the mouth rather than pass backwards towards the larnyx and phamys. Chloroform having been administered, the mouth was tixed open by a screw-gag, introduced and hell by an assistant at the left commissure of the lips. This gag had also the beneficial effect of depressing the tongue. The operator standing in front, and somewhat to the left of the ratient, placed the tir of his left forefinger on the anterior sharp edgo of the right ramus immediately above the matural position of the last molar tooth. Aling this, as a guide, a scalpel, its edge protected by adhesive plaster to within half an inch of the point, was carried and made to sever the soft parts down to the bone, jut enough to admit the raspatury. The point of this latter was now passed through the wound made by tho scalpel and pushed between the periosteum and bone, so as to separate the former from the latter, first onz one side of the ramus and then on the other. In this way, alsu, the portions of the nasseter and internal ptergoid muscles attached to the condenned bone wore separited. The rutting furceps, guided by the left forefinger, were next carried to this spot, and by a little care a blade was passed on each side of the ramus, but the bone could not be cut through at thes stage. The possibility of this failure had been foreseen anl provided against by a small, stout, straight, narrow-bladed saw, blunt at the extremity, but without a button. This instrument, having been placed under the periosteum, upon the outer surface of the ramus, was worked through the mouth, so as to cut a groove in the bene and prepare the way for the cutting forceps, which now with some difficulty completed the section. The next step consisted in making an incision in the soft parts down to the bone and on its outer surface, opposite the position between the first molar and second bicuspid teeth, so as again to admit the raspatory: This latter was then run along directly towards the angle of the jaw, to separate the soft parts, and manipulated so as to turm round the base and come up under the floor of the mouth with a similar object. The raspatory withdrawn, the forefinger completed the further separation of the inter
nal pterygnid and styln-maxillary ligament, etc. ; the right ear and extending down the sile of tho The anterinr surface of the bone was now cleared neek about two inchw. Morning temperature orposite the original interval between the teeth mentioned, and having heen partially seveled by the saw used perpendicularly, its section was complated by forceps. It was now found that the means which had been employel to separate the periosteum and museles from the bone, had likewise nearly separated the growth from the hone, leaving the former almert solely connecte. 1 with murnus membrave. There remained then only to divide the butcous membrane, reflected on the one side from the cheek, and on the other from the floor of the mouth, and the operation was finished. While the saw was being used the jaw was steadied by the finger and thumb of an assistant grasping it on the cutaneous surface. The bleeding was slight and soon ceased.

22nd.-Slept for a short time during the night ; swallow with difficulty ; complained of slight pain in the abduminal region, which is tympanitic. Ordered.-The mouth to be often washed out with a tincture of Condy's fluid and water, one drachm of the former to a pint of the latter. Should the deglutition become more painful, enemata only are to he used, consisting of half a pint of milk and lalf an ounce of brandy, every four hours. Morming temperature $102.0^{\circ}$, pulse 136 , respirations 35 ; evening, temperature $101 \cdot 8^{\circ}$, pulso 120 , respirations 22.

23rd-Can swallow a little to-day, but the enemata are being used. Pain in the abdomen is very aunte, and on inquiry it was found that a large quantity of air had been pumped into the bowel with the enoma. To relieve the excessive tympanites present, Mr. Maunder ordered a large gumelastic catheter to be passed into the rectum. This soon gave great relief. Morning temperature $100 \cdot 8^{\circ}$, pulse 116, respirations 22 ; evening, temperature $1016^{\circ}$, pulse 122, respirations 20 . Ordered.Coninue the wash for mouth, also the enemata.

24th.-Patient says she feels much better; has slept tolerably through the night; deglutition easier; no pain in the abdomen, and the catheter has been removed from the rectum; tympanites gone; can put the tip of her tongue out without pain. There is a free discharge from her mouth of rather an offensive character. Morning temperature $1028^{\circ}$, pulse 124, resplrations 26 ; evening, temperature $1014^{\circ}$, pulse 114, respirations 24. Ordered.-The enemata to be discontinued. Tu take freely of beeftea and milk. Continue the wash for mouth.
25 th. -Complained of a slight pain on the right side of her face; otherwise doing well. Bowels have not been relieved since the operation. Morning temperature $99^{\circ} 4$, pulse 106, respirations 20 ; evening, temperature $100^{\circ} 4^{\circ}$, pulse 110 , respirations 16. Ordered-an enema of soap and water.

26th.-Pain in the face is worse. She describes it as a continued aching pain located principally in
$100.6^{\circ}$, pulse 110 , respirations 18 ; evening, temperature 998 , pulse 106, respirations 22 . Ordered -a hot fomentation of the neck.

27 th. -Has had a fair night; pain in the face and neek is mueh releved ; the diselarge from the mouth has still an offensive odour. Partook of some minced meat to day.

30th.-Patient looks hecidedly better ; can put her tongue out a little more.

June 10th.- Tip to this day, when the patient got up for a short time, she has progressed favourably. She can masticatn a little.

11th.-Has had pain on the right side of the face and chin since last night which has been very acute, the latter buing swollen and tender to the touch. Morning temperature $100^{\circ}$, pulse 96 , respirations 18. Ordered-a hot fimentation.

30th.-Gets up daily ; some induration and tenderness still about the chin; scarcely any discharge from the mouth now.

28th.-Gues home today, but there is still swelling, induration, and slight tenderness about the right side of the chin.

Here Mr. Turtle's report ends.
Postcript (July 25).-To-day Mrs. S. came ap from the country to see me, her genemal health boing very much improved. Just under the chin to the right side of the middle line there is a small wound, which had been artificially made a fortnight previously, and also about a furtnight subsequent to her leaving the hospital, to evacuate a small abscess. From this oponing, and also from within the mouth, three or four small sequestra hard come away, and even then a probe introduced detected a small portion of dead bone. Between this date and October 16, when the wound closed, two or three small fragments of bone came away. Doubtless the fact that the process of exfoliation occupied so long a period is in great measure due to the existence of pregnancy, the patient having been confined on November 21, six months subsequent to operation. The symphisis being unsupported on the right side has a tendency to that direction, and consequently, excepting during mastication, the teeth in the two jaws do nut accurately correspond; still she masticates well.-Medical Times and Gazette.

Enemata of Chloral in the Vomitting of Pregnancy.-Dr. Simmons, of the Yokohama Hospital, Japan, relates four cases in which chloral administered by the rectum in thirty-grain doses, in mucilage, proved of speedy efficacy. In future cases he intends commencing with larger doses, and he believes that the remedy so employed will be found useful in most cases of nervous or sympathetic vomiting, where there is no inflammation present.-New York Med. Record, June 1.

THE SUMMER BOWEL AFFECTIONS OF CHILDREN.

At the last meeting of the Chicatro Society of Physicians and Surgeons, a very interesting discussion was held regarding the summer bowel affections of children, a full report of which appears in the proceedings of the Society as given in the present number of the Examiner. The subject is especially apropos at this season, when this class of affections is so prevalent in all our larger cities.

In a late correspondence received from Dr. B S. Woodworth, of Fort Wayne, Ind., he states his belief in the essentially malarious origin of cholera infantum and the kindred bowel affections of children. Quinine in combination with opiates he has found most efficient in cuntrolling these cases. He usually combines them as in the following formula:
$\mathrm{R}_{\mathrm{k}}$-Quiniæ sulph., grs. axv.
Tannin, grs. x.
Tinct. upii, grs. xx .
Ess. menth. pipt., gtts. xx.
Syr :impl., 亏̃ii.-M.
From half a teaspoonful to a teaspoonful, according to age, to be given every two hours until vomiting and purging cease.

Dr. Woodworth has had a large experience in the observation and treatment of children's diseases for the past twenty-five years, and his evidence, given as the result of long experience, is therefore of especial value.

These bowel affections of children and the accompanying symptoms which they occasion, undoubtedly vary, however, materially in the type and character which they assume in different localities and in different seasons in the same locality. In the eastern and sea-board cities the malarial element will be found much less evident and frequently manifest than in our southern and western cities. When the distinct exacerbations of teven, and the generally intermiting chaiacter of all the phenomena indicate the oresence of a malarial element in the disease, dumine is, of course, indicated. In cases of cholera infantum, however, when vomiting and purging are at all active, we have scarcely ever been able to administer the quinine in any form that would be retained upon the stomach. We more frequently, therefore, substitute for it, in such cases, small doses of phloridzine combined as ia the following formula :-

R-Phloridzinæ, grs. xxiv.
Spts. ammon. arom., 3 i.
Tinct. opii camph., ${ }^{\boldsymbol{z}} \mathrm{i}$.
Syr. simpl., ड̄ss.
Aquæ, Зiss.-M.
Dose for a child one year old, half a teaspoonful repeated every two or three hours.

This forms a mixture rather agreeable to the taste and acceptable to the stomach, while combining a diffusible stimulant with the anti-periodic and anodyne influences.-F.H. Davis, in the Chucago Mcd. Examiner.

EXCISION OF THE ANTERIOR TARSUS AND BASE OF THE METATARSCS.-A NEW OPERATION.
(The Edinhurrsh Mcdial Fournal, May, 1874). -Dr. P. H. Watson reports the case of a lad, æt. 19, who suffiered from disease of the anterior portion of the tarsus. It was sportaneous in its origin, subacute in its progress, involving the articulations chiefly upon the inner side of the foot between the cuneiform bones and the metatarsal bones. The pain wasso much that he was unable to work or walk. Under rest, blistering, and constitutional treatment he improved until the plaster of Paris could be applied, but after a lapse of a few months the original symptoms returned with increased severity. No collective abscess had formed in the soft parts, but there seemed no reasonable doubt that suppuration had already commenced within the tones and joints involved. To amputate the foot seemed too severe a measure to be justified under the circumstances, and as it was obvious that all the disease was confined between the base of the metatarsus in front and the astragalus and os calcis behind, and that the excision of the scaphoid, cuboid, and cuneiform bones and bases of the metatarsal bones would secure the fulfilment of every requisite for sound recovery, the following operation was performed. After the application of the tourniquet to the lower part of the thigh, incisions between three and four inches in length were made in the outer and inner side of the foot, that upon the outer side extending from the outer margin of the plantar surface of the os calcis as far as the middle of the metatarsal bone of the little toe, that upon the inner side from the neck of the astragalus to the middle of the re-established bone of the great toe. The soft parts were then carefully dissected off both surfaces and sides of the tarsus until the whole extent of osseous tissue to be removed was deprived of its soft coverings. A curved probe-pointed bistoury inserted between the soft parts and bones was then carried across the line of articulation between the astragalus and scaphoid and os calcis and cuboid bones, first upon the dorsal and then upon the plantar surface, so as to open up :hese joints. A key-hole saw was now introduced between the plantar soft parts and the shafts of the metatarsal bones, which were then cut through, one handle of a pair of bone-forceps being inserted between the metatarsus and the dorsal soft parts to protect the latter from injury iby the teeth of the saw cutting from below upwards.

After the operation the entire wound was plugged firmly with pledgets of lint closely crowded together. This dressing was retained for forty-eight hours, and subsequently the wound was filled from day to day with pads of lint, with a view of securing consolidation from all surfaces equally, and of preventing the bagging of matter.
The result in this and four other similar cases was entirely favorable,-the patient's walk having none of the stumping gait of an amputation.Phil. Med. Times.

## ELECTRICITY IN POST-PARTUM HEMORRHAGE.

Dr. Charles W. Earle, relates (Medital Examiner. "London Medical Record,") a case of post-partum hemorrhage, in which after other measures had tailed, he successfully resorted to electricity.
The subject of it commenced to experience labor-pains on December gth, but the uterus seemed unable to effect the expulsion of the foetus, and atter waiting about twenty hours she was readily delivered with instruments. Without moving her, Dr. Earle says, he "sat down by the bedside to watch the condition of the uterus for one hour before putting on the binder and take my departure. There had been such inertia of the womb during the entire labour, that I was fearful of what my patient very soon experienced."
"Without any premonition whatever, the uterus ceased its contraction, and a stream of blood, apparently as large as half my arı, came pouring from the vagina.
"I immediately introduced my right hand to the fundus of the womb, and with my left, tried to compress the descending aorta, giving orde:s at the same time to the attendants to administer more ergot, lower the patient's head, apply cold water to the abdomen, and procure a piece of ice.for inserting into the uterus. All this was done rapidly, and in much better order than is usual in such cases. But what a change there was in my patient! In two minutes she had changed from a most favourable condition-indeed, from a joyous and happy one-to an exsanguine, bloodless, and pulseless state ; apparently, she was moribund.
"In addition to what I had already done, I gave what stimulants could be found in the house ; and keeping my hands in the position noticed above, as the most effective way of stopping the largest amount of blood, sent immediately for Dr. I. N. Danforth, who lived in the immediate vicinity. He came forthwith, and relieved me from my most fatiguing position, suggested port wine and carbonate of ammonia as the stimulant. Ergot had been given freely ; ice, externally and internally, had been used ; compression resorted to; stimulants and nourishing broths administered; but the
hæmorrhage did not cease. Nothing up to this time, had produced a good, strong, continuous contraction of the uterus. Dr. Danforth now advised electricity ; and in a very few minutes a battery was at hand; and placing one pole over the sacrum, and the other over the uterus, the current was commenced.
"The effect was instantancous and almost marvelous.
"The uterus contracted firmly; the hremorrhage ceased immediately; and as long as the electrical current was continued, the uterine current remained hard, and of proper size.
"It was necessary, however, to keep up the current for some time; for as soon as we ceased using the electricity, the womb softened, and blood commenced to flow. It was about twelve hours before we ceased using the instrument altogether. At that time the adynamic condition of the entire system, and uterus especially, seemed to be overcome, and we felt safe in leaving our patient.
"The lady was saved, and made a very comfortable convalescence. Electricity certainly contributed largely to the favourable result."

## ON THE EMPLOYMENT OF TRUSSES IN varicocele.

At a recont meeting of the Hufeland Society of Borlin; Dr. Ravoth read a paper (printed in the Berlin Klins Wock., May 11), upon the plan of treating varicocele by means of hernial trusses, which he has pursued for several years witi great success. Twenty-eight cases so treated form the basis of the present communication.

Varicocele, as is well known, almost always occurs on the left side, and in the great majority of cases dates from the period of puberty-most cases, in fact, being made known during the examination of youths as. recruits. It is very rare for it to appear after the twentieth year, and it usually undergoes any considerable increase after this time only in consequence of some irritation of the sexual apparatus. How little the venous stasis produced by hernia and trusses has to do with the production of the affection may be judged by the fact that in nearly fifteon hundred left inguinal hernias, which have come under the author's notice, he has never once met with a case of varicocele. Indeed, as among so many cases there must bave been some instances of co-existing varicocele, these have, in fact, been cured by the application of the truss omployed for the hernia. The chiof casual condition in the production of varicocele is irritation of the sexual apparatus; but whether this is to be explained by an augmented accession of blood, with relaxation of the cremaster and the dartos, inducing dilatation of the spermatic, veins, or by an enfeobled state of the trophic nerves, further investigation must decide.

As a practical fact, it is to be observed that the application of the hernial bandage will ameliorate all cases of varicocele; and when these are recent or have become increased by accidental irritation it will cure them. During treatment the truss should bo kept on permenently, except at night. During two or three hours daily, the compression of the pad is augmented by means of a supplementary spring. In two cases narrated the cure was effected in two or three months respectively. Under compression the varicocele immediately diminishes in size, and any pain that maj be present disappears. The testis is also brought nearer the abdominal ring in consequence of the stimulation imparted to che cremaster.

Dr. Ravoth is of opinion that this mode of treatment may be advantageously applied for the relief of the varicose state of the lower extremity so frequently mot with. Here, however, for prompt results, recent cases must be dealt with, as those whtch have lasted for years, and are attended with great thickening of the walls of the veins and degeneration of the surrounding connective tissue, can only be very slowly ameliorated. The pad should be applied to the femcral vein beneath Poupart's ligament, and especially where the aphena vein onters it. Dr Ravoth is also in great hopes of soon showing that this mode of treatment may be employed very advantageously in treating cases of onanism and pollution. These cases, of course, require a great deal of individualising and adaptation of treatment owing to their a mplicated character. Meclical Times and Gazette.

## PROFESSOR ESMARCH ON THE BLOUDLESS METHOD.

[Professor Esmarch has published a paper, which contains his latest views; we lay it in an abridged form before our readers.]

He observes that since he first brought the subject before the Congress he has had the opportunity of trying his method in 200 additional cases, and that he now entertains a much higher opinion of its utility than he did then. Not wishing to weary his audience with mere statistical details, he yet feels desirous of pointing out the influence which he believes the method exerts in diminishing the mortality of large operations. Thus, of thirteen amputations of the thigh he has only lost one, and the same with respect to eleven amputations of the leg, while four of the upper arm all recovered-so that in twenty-eight of the greater amputations there occured only two deaths. An amputation of the shoulder succeeded, but one of the hip-joint, which from the first was almost hopeless, failed, and of eight excisions of the large joints (three of the hip, three of the knee, and two of the elbow) only one torminated fatally. These are favourable results
that cannot readily be surpassed. His clinical wards are contigous to the medical wards, and both have lung been overcrowded, and erysipelas, diptheria, and pyæmia have been often met with. He is under the conviction that tho more favourable results of the present year are due to the adoption of the bluodless method. This presents the following advantages :-

1. The small loss of blood which takes place. Everyone is aware how convalescence is retarded and endangered when the loss of bluod has been large. The production of acute anæunia here is tho great danger. The coagulability of the blood aug. ments in many cases with the impoverishment of the red globules, and with this increases the danger of thrombosis and pyæmia.
2. Sponges need not be brought in contact with the unbleeding surfaces. Although he has always been very careful not to use sponges that have not been thoroughly cleansed and disinfected, yet Dr. Esmarch has still suspected that they have still had something to do with transporting contagious material, and especially the poison of erysipelas.
3. The large arteries and veins are not subjected (as they are when the tourniquet or digital compression is employed) to violent local pressure. They are equally compressed on every side by the entire mass of the soft parts being enclosed in the ligature.
Disadvantages of the method Prof. Esmarch has not met with himself, and, especially, he has not seen paralysis as a consequence of the ligature; and he believes that when this has taken place in the hands of others, it has arisen from too powerful an application of the caoutchouc tubing. Indeed, he has had to prevent his own assistants committing this error. All kinds of caoutchouc are not suitable, and he prefers the brown, non-vulcanised, and tubes or mollers made of the red caoutchouc; and in general no great force is required to completcly prevent the afflux of arterial blood. The first turn should especially not be too forcible, as each succeeding one considerably increases its effect. Anyone may be easily convinced of this by passing a fine caoutchoue bandage several times around the same part of a finger. He has never met with gangrene of the flaps reported by some surgeons, and thinks this has been dependent on other causes.
Additional advantages of the method are referred to. Thus, as a consequence of the local ischæmia and compression of the nerves, a local anæsthesia is induced, rendering operations but slightly painful. In the out-patient establishment at Kiel it is almost always resorted to for small amputations, incisions, removal of nails, etc. Generally the anæsthesis does not occur until some minutes after the application, but if Richardson's spray-douche be used it is quickly induced, as the freering is infinitely more quivkly brought about when the arteries no longer bring additional caloric with the blood.

The method allows of a thorough examination boing mado of diseased parts, especially in the bones and joints. On many occasions Prof. Esmarch has oxamined these as deliberately as in the dissectingroom before he decided whether he would perform excision or amputation. He has thus frequently been ablo to assure himself of the various alterations on the living body, and has submitted portions to the micrescope before he would decide on operating. The seme assistance is derived in the removal of small foreign bodies, such as needles, glass splinters, etc., which have become embedded in the hands or feet; and everyone knows how a constant stream of blood aggravates the difficulties in these cases, leadiug in some cases to the abandonment of the atternpts. Now, if the situation of the body be but known, it is removed with the greatest ease, and the slight wound necessary for this usually beals by the first intentiou. Of the great facility with which the ends of wounded arteries may now be found, Leisrink and Stokes have published remarkable examples.
Another advantage greatly to be prized is the fact that many of the great operations can be performed without any skilled assistance whatever-a fact of importance not only in military surgery and for surgeons when alune on board ship, but still more so for practitioners is uin country aud in small wns. Many are the thankful communications on this head which the Professor has received from his pupils scattored about in country parts. Une of them not having the apparatus with him, employed a linen binder and his elastic braces during the easy extraction of a splinter of glass, which was embedded in the arm. It is very desirable that ufficers and soldiers going into battle should have elastic braces capable of being used in the arrest of hemorrlage on emergency. Professor Muller, of Wurzburg, suggests that in a womau dying of hæmorrhage the ligature might be applied to the four extremities so as to force the blood towards the trunk and head, thus warding off collapse and, giving tume for transfusion, or enabling us to dispense with this.
By means of the ligature, which may be applied at any part of the extremities, lay persons are in the position of being able to control accidental hæmorthage, no knowledge of the places of the arteries being required, as for the application of the tourni-1 quet. As Professor Langenbeck has remarked, in 1 most cases an elastic bandage will answer the purpose as well as the caoutchuuc tube, while its pressure is gentler and more unifurm; but still there are cases in which the tube cannut be hus superseded owing to its smalier size. Prof. Esmarch cannot agree with those who think that his method is not suitable in operations upou the shoulder and I hip-joint, having himself employed it 1 m several of these with complete success. In operations upon
the shoulder, blood may be prevented passing through the axillary artery by carrying tho tube
under the axilla, drawing it tight over the shoulder, and keeping it in a state of tension by a strong fist supported by the clavicle. Ur both euds may be held together by a clamp, like that used for fixing the pedicle in ovariotomy. Bringing the tube across the chest and back to the opposite axilla, as was at first done, is objectionable, on account of the interference with respiration that is produced. In amputations at the upper part of the thigh the tube may be passed firmly once or twice around the limb just under the bend of the thigh, crossing the ends over the inguinal region and carrying them around the posterior surface of the pelvis and uniting them over the lower part of the abdomen. Or a binder may be firmly rolled up and applied as a pad over the external iliac above Poupart's ligament, and compressed by several turns of a strong caoutchouc bandage. In operations upon the hip-joint itself, however, such a bandage would bo in the way, and we must then compress the aorta in the umbilical region. This can be done by means of a pad formed of a linen bandage eight metres long and six centimetres broad. This is wound around the middle of a wooden staff the thickness of the thumb, and a foot in length, which enables the pad to be retained in. its right position. The pad is applied immediately under the umbilicus, and is compressed powerfully against the spinal column by five or six turns of a caoutchouc bandare six centimetres in breadth. By this means the flow of arterial blood through the aorta can be completely arrested, provided care has been taken beforehand to empty the intestinal canal by means of purgatives and enemata. In some cases it is preferable to employ a pediculated pad, which allows of its being pressed deeper into the abdomen. Prof. Estuaich has had a slit made in the steel pedicle of his pad (pelote), through which the turns of the caoutchouc binder can be easily passed. Several persons have recommended raising the limb for some minutes prior to the operation before applying the cnmpressor, but this is by nu means of the same utility as the methodical application of an elastic bandage. The only cases in which the raising of tne limb is oi advantage are thuse in which the presence of foul secretions renders it unadvisable to force them by tho bandage into the cellular tissue and lymphatic system. It is very desirable, in cases in which there are open wounds, ulcers, or fistulx of the extremities, that these should not only be covered with varnished paper, etc., but that pure caoutchouc landzges only should be employed, because these are much easier cleaued than are those in which silk or cotton enter into the composition.-Medical Tinnes and Guzette.

The man who sees too widely is nearly sure to be indecisive, or to appear so Hence, also, comes an appearance, sometimes of shuffing, and sometimes of over-subtlety, which is very harmful to a man.-Arthur Helps.

The Use of Large Enemata. (The London Medical Record, May 6, 18*4).-The practical results of the recent discussion in the German medical papers on the use of large enemata seem to be as follows:
r. Enemata, if sufficiently copious, will reach the small intestine, the ileo-creal valve notwithstanding, provided there be sufficient propelling force, whether that be gained by a long column of fluid in the apparatus (as in the use of irrigators), or by the patient's position, with the pelvis elevated, favoring the descent of the fluid, or by repeated action of the injecting instrument.
2. Experiments have shown that it is neither necessary to use complex apparatus, nor to put the patient into awkward and perhaps dangerous positions ; since from three to five feet of pipe, with a funnel at one end and a suitable nozzle at the -other, is all the apparatus we need ; and the patient -simply lies upon the back, the only pressure required being that of the column of fluid.

The real pressure we have to overcome is that of the patient's muscles,-aided in some cases by tense gases in the bowel; for if any one will insert a tube into the rectum before the injection has come away, he will see the fluid come out in jets or spirts, when the patient strains, and less mark--edly so at every descent of the diaphragm.
3. The safety and efficiency, or the benign action, of large enemata of water, gluel, and the like, are very striking; but we are strongly inclined, however, to believe that a very small quantity of soap, or of some neutral salt, is even less irritating to to the mucous membrane than pure water alone.
To sum up all, large injections do reach the whole length of the large intestine and beyond it ; they are safe and speedy remedies for fæcal accumulations, for some form of intestinal obstruction (notably intussusception) and internal herniæ; for the treatment of intestinal ulcers, of hæmorrhage from the bowels, and diarrhœa; for worms, especially oxyurides, and their congeners; as a means of stimulating and increasing the secretion of bile, and of introducing into the small intestine nutritious matters in a state easily susceptible of absorption.-Ibid.

Aneurism Mistaren for Asthma.-The proceedings of the San Francisco Medical Society refer to a case of death from aneurism, which was reported as "Asma," by an ignoramus with a bogus diploma, or with no diploma at all. Simiar cases, however, have occurred under the charge of regular and experienced physicians, who have failed to trace the asthmatic condition to its true source. It is only by post-mortem examination, that the true nature of the lesion has been ascertaineci. We are confident that many of the deaths attributed in past years to asthma, would have been proved to result from aneurism, had an examination been made.-Pacific Medical fournal.

Apthous Stomatitis Communioated to Max through the Milk of a Cove Affeoted with the Same Disease.-The symptoms commonced in less than half an hour after the ingestion of tho milk. They consisted in vertigo, tingling in the ears, feebleness, aftorward delirium and hallucinations. On the second day, vomiting and diarrheas with abdominal pains set in, which promptly yielded to treatment by opium and subnitrato of bismuth. The fever, however, was not broken, and on the third day stomntitis appeared, with ptyalism and the development of aphthæ on the inner surface of the lips and cheoks, on the palate, and the in. ferior surface and borders of the tongue. At the same time, there appeared a phlyctenular eruption on the hands, fect, perinæum, and scrotum. The nervous disturbances, delirium, and insomnia, wero combated by opium, given in doses of fifteen centigrammes per diem, and the stomatitis by gargles of chlorate of potash. At the end of fifteen days, the patient recovered. A remarkable detail of this observation, made by Dr. Van Varys, is that the wife and children of the patient had drunk milk from the same cuw, and were not affected. At that period, an cpidemic of aphthous stomatitis reigned among the horned cattle in the country, and the milk of these animals was used, notwithstanding its virulent properties. The difference in the results Dr. Van Varys attributes to the f.... that the milk drank by the patient's family had previvisly been boileu. Experiments made by a veterinary surgeon of Nievre have demonstrated that milk subjected to a temperature of more than $80^{\circ}$ loses its virus. New Yorl Med. Journal.
Puerperal Mania; Treatment ey Chloral and Bromide of Potassium.-The patient, aged thirty years, had been suffering severe anxiett, previous to and during labor, from sume domestic trouble. The position was transverse, and delivery accomplished by version. Folluwing the labor were severe after-pains, for which morphia was administered. That night the pulse ran up to 130 per minute, the temperature to $102 \frac{1}{2}^{\circ}$, and with this fever marked delirium set in. The delirium continued for two nights and one day, when the treatment, which had beer morphia with veratrum yiride, was changed to bromide of potassium, with hydrate of chloral. Two hours after the latter remedies had been administered, the patient slopt, and on.awaking was perfectly rational. This improvement continued. -N. Y. Med. Journul.

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Statistics show Philadelphia to be one of the very healthiest of great cities. Its salubrity surpasses London which is the healthiest of European capitals. It is far healthier than New York, which might indeed be inferred from its greater area to the population, and the more comfortable housing of its inhabitants.

Popliteal Aneurism cured by Forcible Flexion. (The Lancet, May 30, 1874).-Mr. Benfield reports the case of a man, wt. 38, of good general health, who was troubled with a small pulsating tumor in the left popliteal space. A distinct bruit was heard on applying the stethoscope, and firm pressure on the artery above the tumor arrested at once both the bruit and the pulsation. Treatment by flexion was resolved upon.

A flannel roller was applied to the leg, which was now flexed upon the thigh, and the latter upou the abdomen. The leg and thigh were firmly bandaged together so as to maintain forcible flexion, and heary sand-bags were also employed to keep the patient from rolling out of position. This procedure occasioned very great pain, and a quarter of a grain of morphia was given subcutaneously for its relief. About six hours from commencement of flexion, the patient could bear the pain no longer, and the bandage was removed and the leg gently straightened. No pulsation or bruit was now discernible. Patient complained of being chilly, and the foot of the affected limb was decidedly colder than its fellow. The limb was encased in cottonwool, a pad of lint placed in the popliteal space, and a flannel bandage applied. It was then placed stmight on a pillow.

The aneurism was now practically cured, but for the sake of safety the pad and bandage, together with rest in bed, were maintained for ten days. The man was then allowed to get up and take exercise, which occasioned no pain or inconvenience. He was thus kept under observation for about three weeks, when he was discharged cured.-Ibid.

Treatment of Round Worm.-In the Journal of May 23 rc , several cases of round-worms are reported. A peculiar case came under my care as an out-patient at the Bristol General Hospital in February last. The patient, a child aged one year and eight months, had been suffering for three weeks with a very irritable state of the bowels, so much so that it could not be kept clean ; and during an evacuation a round worm was passed. The child looked pale and ill ; it had been fed with the ordinary diet of the house and pork. A mixture of a grain of santonine and syrup was ordered to be taken three times a day. On the next visit (four days), the chind had voided forty-six round-worms. It seemed more cheerful, and was to continue the mixture. At the next visit, fifteen more had pass-1 ed making in all sixty-two worms. Afterwards the child improved rapidly.-(Dr. Clark in the Brst. Med. Fournal.)

Delirium Tremens.-The standard prescription for this condition at the Roosevelt Huspital New York is :

R-Chloral Hydrat., grs. xxx.
Potass Brom. grs. xl.
To be given at bed time and continued through the day in smaller doses if necessary

On Practure of the Base of the Skull.-Mr. Foster, of Guy's Hospital, in a clinic reported in the London Medical Times and Gazatte, discusses the question of the respective value of the symptoms usually considered characteristic of fracture of the base of the skull. They may, Mr. Foster thinks, be placed thus in their order of relative importance : Escape of clear fluid from the ear; subconjunctival ecchymosis, if the fracture be in the orbital plate of the frontal bone; greater or less disturbance of the mental functions, generally on the side of diminution rather than excess of function ; pressure symptoms, such as paralysis; bleeding from the ear; deafness

Of these, only the first is unfailing. If there is no mistake about it, the diagnosis is certain ; but care should be taken that a serous fluid is not called cerebro-spinal.

The value of any one of the others will vary according as it is very marked or is associated with one or all of the remaining symptoms.

Considering the question of fatality in fractures of the base of the cranium, it is said:-A patient having all of a set of symptoms will die, one with less will get well; and between these exuremes there is no mean. There is no peculiarity about the nature of the fracture ; but the patients die in nine cases out of ten, firstly, because the brain is so bruised that it is incapable of keeping up the requisite functions; secondly, because inflammation extends to the membranes of the brain It is probably quite possible to fracture the skull without injuring the brain, provided no great amount of concussion be imparted to that organ by the injury, just as a steam-hammer will crush a nut without injuring the kernel. Thus, the skull being alone fractured, we might expect bleeding from the ear, and even cerebro-spinal fluid, without any brain symptoms, at any rate during the early days following the injury. If, after fracture of the cranial bones, much new bone for repair was formed, secondary dangers from surface inflammation, and irritation might follow ; but the fact is, hardly any new bone is produced in the skull, except a slight surface bony casing along the line of fracture, and a bone cement between the two adjacent fractureedges. If, then, we get a fracture ol the base without brain-bruising, we may reasonably expect such a case to get well with no further symptoms. It is quite possible that a certain proportion of cases of hemorrhage from the ear are of this kind.

In the treatment of these cases of fracture of the base, we ought to bear in mind the length of time the skull takes for the repair of its fractures; thus in one case there was evidence of union at one spot only, ninety one days after a severe fracture of the base of the skull. This should lead us to be slow in departing from the low-diet treatment which should always be prescribed in such cases; and we ought to be very careful to forbid much exercise for some time after the patients are apparently quite well.-(Med\&wSurg Rejorter, Phil.)
"Except the medicines whose effects are established by strict observation, such as the evacuants, diuretics, stalogogues, \&c., icc., and to what does our knowledge of the rest amount? Into what errors in the use and denomination of medicines have we not been led? When the theory of obstruction was in vogue, deobstri ents were created. Incisives sprung up when the theory of the thick ening of the blood became the favourite idea. The expressions dilutants and alterants, and the ideas which were attached to them, arose at the same epoch. When it was necessary to obtend acridity, inviscants, incrassants, \&c., were created. Identical means have ofter had different names, according to the manner in which they were supposed to act, deobstruant with one, relaxant with another, refrigerant with a third, the same medicament has been employed in turn, with different and even opposite views, so true is it that the human mind marches at hazard where the vagueness of mere opinion guides it." - Biikat Anatomie Generale.

Chlorhydrate of Trimethylamin in Rexutmatic Fever.-A new successful instance of the above has been communicated to the Therapeutical Society of Paris by Dr. Martineau. When called to the patient he found that the elbow had, since the morning, become red, enlarged, and painful; skin hot ; pulse 90 . Ten grains of the drug were administered. The next day a great improvement was noted. The pain in the elbow had entirely disappeared, and the pulse had fallen from 90 to 65. No crisis or cardiac complication had occured. The same treatment had been equally successful in a similar attack a year previously.

Dr. John Friend wrote the History of Medicine during his confinement in the Tower in 1675 . Friend, like most others of his day, was generally mellow after dinner. He was once sent for in this state to a family of consequence; but the family not chosing to trust to his prescription, sent for Dr. Mead, who came, and, after looking at what Friend had watten, took the opportunity of paying him a very high compliment. "Pon my word," said Mead, "if Dr. Friend wrote this when he was drunk, he prescribes better than I can do when sober."-Pettigrew's Biography.
"The son of Henry I., King of England, having been attacked with small-pox, his physician, a skillful mar, if there ever was one, ordered with all convenient ceremony that the young prince be enveloped in scarlet, that every thing about him be red, the hangings of his chamber and the clothes of his servants. This arrangement cured him so well, says John of Gaddesden, that not a single trace of the disease was left on his face. We see that John of Gaddesden had a presentiment of Homœopathy."-Friend's History of Medieine.

Abortive Treatment of Bolls.-The Cincinnati Lancet and Observer has a note from Dr. C. B. Hall, stating that the following, applied to boils with a camel-hair pencil or feather, gives great relief in a very short time: Tincture of amica flowers, I drachm ; tannic acid, half a drachm; powdered acacia, half a drachm. The inflamed surface, and a little beyond all around, should be painted with the medicine every fifteen minutes, or as fast as it dries, till a good thick coating covers the part. The throbbing, tensive pain, and the in. tense tenderness will be promptly relieved; the redness will subside ; the smooth, shining integument will shrink and become wrinkled, and comfort will succeed torment. If the boil be in the first stage, it will disappear without sloughing. If sloughs have already formed, it will be quickly separated, and the cure will be soon complete. The preparation should be used as soon as prepared.

Treatment uf Zuna by Colludiun and Mur-phia.-Dr. Bourdon, Hôpital la Charité, after having tried a great many local means for treating the above disease, and checking the intense pain, has defnitively adopted the following plan:Without opening the vesicles he paints all the diseased surface with a combination of collodion and murphia--collodion one ounce, morphia eight grains. The mixture must be put on pretty thickly. The pain ceases from the second day, and at the end of seven or eight days, when the layer of collodion is removed, all the vesicles have disap. peared, and there remains only a slight local redness.

Application for Burns.-M. Lebigot recommends the following mixture as having been very successful :-Cape aloes, four ounces; water, ten ounces; alcohol ( $90^{\circ}$ ), three ounces. The ingredients are to be melted together in a chins plate over a slow fire, allowed to cool, and then filtered ; after which three more ounces of alcohol are to be added. It is then ready for use. A tablespoonful of the mixture mixed with a teaspoonful of acetate of lead and twenty tablespoonfuls of water constitutes an excellent remedy. It is to be applied morning and evening on the burat parts.-Lancet.

Acute Articular Rheumatism.-At the Charity Hospital, New York, the following is in use as a local application :-

> Mx.-Tinct. opii, 亏̄i.;
> Spiritûs chloroformi, ziss.; Linimenti saponis, ad Oi.-M.

This liniment is applied freely to the joints and immediately covered with cotton and oiled silk. The relief from pain afforded by this application has been gratifying. - New York Medical Record.

# The Canada Lancet: 

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TORONTO, SEPTEMBER $1,1874$.

## THE REVIVAL OF THERAPEUTICS.

If we were required to name the prominent characteristics of medical thought, at the present time, we should answer that it is characterized by faith and earnestness. In this respect it is diametrically opposed to the leanings of certain men of position in the medical world, some fifteen or twenty years ago, who, hampered by the traditions of the past, and staggered by the discoveries of modern pathological investigation, as yet imperfect and incomplete, were disposed to sceptical views in medicine, and gave way to the idea of nihilism, and suggested or followed an expectant plan of treatment. Of late years great progress has been made in medical discovery ; some remarkably efficient new remedies have been introduced, and their employment, guided by the teachings of a more exact pathology and by keen clinical observa tion, has led to almost specific results. The natural tendency of this has been to infuse fresh faith in the efficacy of drug medication, and there arises the belief with each succeeding improvement or new medical acquisition, that our art will, by-and-bye, become so perfect and well defined, that the educated physician's control over disease will be almost magical.
Ten or tw-nty years ago the chief line of medical investigation was pathology. The fascination of this study still holds ground; and a vast accu. mulation of facts and knowledge, the result of the pathological work of our time, has served to place the practice of medicine and surgery on a more thoroughly scientific foundation. Now, however, there is to be noticed a strong tendency towards therapeutics. This branch, too much neglected
by the pathologists, now comes back to be held in something like the same importance it had in the early days of medicine, as was needs the case when practice was solely based upon empiricism.

The profession has reaped an immediate benefit from the revival of therapeutical research, and great things are undoubtedly in store from the keener prosecution of this line of discovery. Chemical science is as yet far too incomplete not to suppose that new compounds as yet unthought of, will, by-and-bye, be placed at the command of the therapeutist, wherewith he shall be able to work as magically as with chloroform, methylene bichloride, chloral hydrate and the other wonderful additions to the materia medica which the progress of chemical discovery has of late years made available. Physical science, too, is yielding service in the cause of therapeutics. No one acquainted with the condition of electrical science as applied to mediciae fifteen or twenty years ago, and with the condition of the same science now, and its latest a.plications, but will be able to survey a wide fieid of discovery, improvement and useful adaptation of knowledge. Not only have inventors devised and constructed new forms of batteries of a convenience and kind adapted specially to the uses of the medical practitioner, whereby progress in therapeutical observation has been aided and success in the employment of electro-therapeutics made more certain ; but by the activity of co-operation, facts have been discovered with regard to the employment of different kinds of electricity of the highest importance and usefulness. We need only refer to the peculiar properties ascertained to reside in the constant current, and in induced and statical electricity, to point out the specific results that have been arrived at. And yet all this is confessedly such a novelty that we may not only look for a wider diffusion of this species of applied science, but await still further discoveries in the same incompletely explored field.
As regards the materia medica, progress takes two lines, -one in the direction of adding new medicamenta to the list, the other in finding out new properties in the older remedies, and in more. accurately defining the methods of operation and the modus curandi of medicines. . To cite but an instance or two by way of suggestion. How very important it is to know that, in suitable doses,
digitalis, instead of acting as a sedative and depressant, improves the nutrition of the heart, strengthens its muscular walls, and gives tone to the nerve-centres presiding over this viscus. And yet this is new knowledge of an old medicine. So with regard to aconite. Long known as a potent drug, its most useful applications are a thing of our day. Phosphorus and its compounds, too, have been recently made most useful additions to to the medical armamentarium. So of strychnine. Known only to the vulgar as a most violent poison, in the hands of the therapeutist it proves an efficient cure. The readers of current medical literature know, that new additions to the list of medicines are made almost every month, and that new combinations adapted to certain special ends, are being constantly made known.

There is, in fine, great activity in the department of therapeutics. We regard this as a most healthful sign. The prosecution of such knowledge is what will give contributions to the future advancement of medicine. It is a department into which every practisirg physician, or man of science has a right and duty to enter, and one in which he may work with the hope of being able to leave behind him, some fact or method of practice that shall be a benefit to mankind In a new country especially, there is a path of work open to all, who have a mind to step into it, to ascertain with more precision, the properties and applications of the native flora. There is a grand opportunity in India, in the tropical colonies and stations; and it is offered here also in North America, where there are many plants popularly reputed to posess certain properties, which require to be established or contradicted by men of science. It is for Canadian practitioners to do their part in this connection, to make the world their debtor. In this view we cannot help thinking it a fortunate circumstance, that the legal requirements of the medical man in Ontario, exact a knowledge of plants and vegetable physiolngy, out of which studies, pursued to the full by those whose tastes carry them onward, we may hope for the work above assigned to be done.

## MORAL PROPHYLAXY.

Public attention has of late years been in such a measure aroused to the necessity for the proper drainage and sewage of cities; to the enacting laws
concerning slaughter houses, and noxious and offensive trades; to the pollution of streams; the water supply of cities and towns; the abuse of in. toxicating liquors; food of the people ; adulteration of milk, and house accomodation of the poor in populous cities, \&c., that very great improvement to public health and increased longevity has resulted. The time has gone by when physicians could ignore causes of disease, and prescribe only for results. Newspapers, periodicals, and sanitary journals are full of suggestive matter, having for its object the prevention of disease. Hygienic Prophylaxy fortunately is well to the fore front ; we do not purpose, therefore, in this number, dilating upon the work relating more especially to it, that has yet to be accomplished, but rather to briefly allude to moral therapeutics, or the influence which the mind and passions exercise in the production and cure of various diseases. It was the remark of Napoleon that, in war, the moral are to the physical means as three to one, so highly did that consum. mate General rate the influence of mere mind on the issue of any great work. The same will often be found to hold good in the more peaceful operations of the healing art. It is by studying the mind, the feelings, and passions of his patients with more than usual tenderness and sagacity, that one physician so often outstrips another in the extent and success of his practice. There cannot be a doubt but that psych ological causes of disease are too apt to be entirely overlooked, and that physicians in their minute examinations of all the physical symptoms uí a malady, often overlook the influence of mental emotions on its development, its progress, and its termination. Many a disease is the contre coup of a strong moral emor tion; the mischief may not be apparent at the time, but its germ will nevertheless be inevitably laid. "Vix ullus reperitur morbus, cui non aliquod animi pathema, vel ansam, vel incrementum, vel remedium dederit. Lord Bacon has observid, " He who would philosophize in a due and propes manner must dissect nature, but not abstract her, as they are obliged to do who will not dissect her.: Dissection, however, in its anatomical sense, $123 i$ not, perhaps cannot, elucidate the pathology of insanity, still it is only by a combination of argel ment and anatomical research, with the aid of analogy, that the phenomena and disease of the | mind can be fairly investigated. Abundant illus.
trations are afforded in the text books, of the sympathies of the organ of digestion with the brain. Dr. Gregory's case is perhaps one of the best. A patient at the hour of six, one hour after dinner, was daily visited by a hag, or incubus, which confronted him, and appeared to strike him with a crutch. Immediately on this, he would fall from his chair in a swoon. This gentleman was at once relieved by diet and abstinence. The Abbé Pilori, in Florence, invariably saw the phantoms of scorpions around him after he had partaken of luncheon. In the case of an enlarged heart Dr. Kelly discovered that a dark spectrum was perceived syncnronous with the systole of the ventricles, so that the patient could count his pulse merely by watching the motion of this illusive shade on the white ceiling of his room. It is, indeed, often very dificult to trace distinctly the relation between the cause and the effect, except perhaps in our own individual cases, or in those of our immediate friends. But where is the medical man that could not tell many a story of the workings of the mind in unhinging the machinery of,the body. On this subject we quote from M. Reveillé Parise, "Many physicians of extensive experience are destitute of the ability of searching out and underslanding the moral causes of disease; they cannot read the book of the heart: and yet it is in this book that are inscribed day by day, and hour by hour, all the griefs, and all the miseries, and all the ranities, and all the fears, and all the joys and all the hopes of man, and in which will be found the most active and incessant principles of that frightful series of organic changes which constitute pathology."
Perhaps this author does not much exaggerate the influence of mental causes when he says that deep and protracted distress of mind is the point de depart of the greater number of organic diseases. If our space permitted, it would be easy to extend these observations, but as our object at present is not to write an essay, but only to offer a few thoughts, it is unnecessary to say more than is requisite for impressing on students and practitioners, the importance of studying the psychological causes of disease.

There are no cases of small-pox in Toronto at present, the hospital for which has been closed.

## PROFESSIONAL EXAMINATION, COLLEGE OF PHYSICIANS \& SURGEONS OF ONTARIO.

As was mentioned in our last issue, an examination will be held in Toronto on the 2 rist instant. We understand that a number of candidates have enrolled their names for this examination ; among others, some medical men who have been in practice for one or more years. We are glad to see this desire on the part of unlicensed practitioners to conform to the requirements of the law, and hope that every consideration in the interests of the profession will be shown them ; but at the same time we deeply regret that several Canadian graduates, who have subsequently spent considerable time and money in British institutions, and possessing double qualifications, should be subjected to the loss of time and further expenditure of money attendant upon an examination before the Council. There appears to be no intention on the part of the Executive Committee to exercise the option which the Act enables it to do in reference to such persons. They have been informed that they must pass a strict examination, and that until this is done it will be useless for them to seek registration. This, to say the least, seems exceedingly arbitrary; and moreover, it is a breach of taith on the part of some of the members of the Executive Committee, who agreed to the insertion of a clause in the Bill, with the distinct understanding that it was to relieve this class among others of what was considered a wholly unnecessary examination. Was this clause inserted in the Bill as a mere blind, or was it intended as a means whereby wealthy and influential men from abroad could secure an easy entrance into the profession here? Does the Council, cr does it not, intend to exercise the option of admitting to registration, without an examination, those whom everybody considers worthy of such a distinction? The ridiculous position of the Council in this respect would be still more apparent, if for instance Dr. Gross, of Philadelphia, Dr. Flint or Hamilton, of New York, wished to come to Canada to practice medicine. Would the Council insist on their passing a strict examination. Fancy Dr. Aikins, with all his knowledge of Practical Surgery, and for which he deserves great credit, examining such a man as Prof. Gross or Hamilton; or Dr. Clark,
of Guelph, examining Prof. Flint on the Practice of Medicine. They would simply be laugied at from one end of the country to the other. And these are the men who insist that every man, no matter that his standing and attainments may be, must pass a strict examination; and until this is done it will he useless for him to seek registration.

If the object is to render the Council unpopular, these arbitrary and unjust proceedings are the very things to do it. The Council has a very good enactment. It has great powers, but it must at the same time be careful how it uses them, or it may create such a reaction in the professional mind as will cause its speedy annihilation.

Many warm friends have been already alienated by some of its proceedings, and it becomes a matter of the greatest importance how its affairs are conducted, if it is to continue on the statute book.

## CENTENNIAL OF CHEMISTRY.

A convention of American chemists in honor of Priestley, and to celebrate the 100th anniversary of the discovery of oxygen, was held in Northumberland, Pa., U.S., on the 3 rst of July and following days. The meeting was largely attended, and several very interesting papers were read. Prof. Croft of Toronto, was present as the representative from Canada, and read an able address on the "Life and Labors of Dr. Joseph Priestley." A paper was also read on the Century's Progress in Industrial Chemistry, by Prof. Smith, of Kentucky. Prof. Sterry Hunt of Boston read a paper on the "Century's Progress in Theoretical Chemistry." A commemorative address on American contributions to chemistry was delivered by Prof. Silliman, of New Haven, Conn. Among the business transacted by the convention was the appointment of a committee to extend by telegraph the sympathies of the meeting in Northumberland to the meeting being held contemporaneously at Birmingham, England, to unveil the statue of Priestley. The following despatch was sent by cable:-"The brethren at the grave, to the brethren at the home of Priestley send greeting." Prior to the adjournment in the evening the following despatch in reply was received from the chemists assembled at Bir-mingham:-"Our marble statue representing

Priestly discovering oxygen will be unveiled to morrow, presented by subscribers, through Prof. Huxley to the town and accepted by the Mayor. We greet you as colleagues engaged in honouring the memory of a good and great man."

Prof. Smith, of Kentucky, advocated the holding of a meeting of chemists during the year 1876 , the American centennial, which is to be held in Phila. delphia. His views prevailed, and a committee was appointed to make arrangements. A vote of thanks was passed to the President, the various committees and others, and the meeting adjournid until the rst of August, 1974, one Intudred years from to-day !

Prof. Erichsen.-Prof. Erichsen, of Univenity College, London, Eng., the distinguished surgein and author, was in Toronto for a few days the las week of August. He visited the Hospital, Uni: versity, and other places of interest. Several of the medical men of Toronto called upon himat his rooms in the Queen's Hotel. He visited Niagara Falls, and intends making a tour throng the United States before returning home.

We have received the following communication from the Dr. since his departure :-

> Clifton House, Niagara Falls, August $25,1874$.

## To Dr. Fulton,

## Editor of the Canada Lancet.

My Dear Sir,-Will you allow me throught ${ }^{\text {t. }}$ medium of your valuable journal, to return aj most cordial thanks to my medical brethren in Toronto, for the very friendly, indeed I may trif say flattering manner, in which I was receivedty them. I came to Toronto a stranger. I fonsit the city full of friends. I regret much that of stay was unavoidably so short that I had not e: pleasure of being able to meet the members of $c=$ profession, in that more public manner which Imi told was the desire of some. But I shall eras retain a lively remembrance of the very corth reception I met with, during my short visit: Toronto.

Believe me to be, my dear Sir,
Most faithfully yours,
John Eric Ericher:

School for Yocing Ladies. - The widow of the late Lr. Rolph cunducts a school in Toronto for joung ladies and misses. The school has been in successful operation for the past two years, and has been very well attended. We have no doubt many of the medical friends of the late Dr. Rolph and others will be glad to know that his widow is meeting with success, and will favor her by using their influence in sending, her pupils. The school, is thoroughly equipped in every particular, and none but first-class teachers are employed.

Pharmaceutical Preparations.-Dr. A. B. Lyons, analytical chemist of Detroit, has been analysing the preparations of Messrs. Wm. R. Wamer \& Co., of Philadelphia, and with very satisfactory results. In reference to their sugarcoated Quinine pills hesays in his report "these pills are practically just what they claim to be, whether judging by analytical tests or by the therapeutic efiect obtained from them."

Rofal College of Surgeons, Exgland.-The following gentlemen from Canada having passed the required examination for the Diploma, were duly admitted members of the College in July :John Jay Farley, M.D., and Francis John Shepherd, M.D., McGill College, Montreal, and Wm. Henry Johnson, M.D., Toronto.

Appointments.-Henry Thomas Corbett, M. D., Ottana, Associate Coroner for the County of Carleton. Donald Alexander McCrimmon, M.D., Lucknow, Associate Coroner for the County of Bruce. Moffitt Forster, M.D., Thorndale, Associate Coroner for the County of Middlesex. Albert Edward Harvey, M.D., Wyoming, Associate Coroner for the County of Lambton. George Jilmine McMicking, M.D., Goderich, Associate Coroner for the County of Huron. Robert Ramsay, M.D., Orillia, Associate Coroner for the County of Ontario. William Lafayette Smith, M. D., Mount Hope, Associate Coroner for the County of Wentworth. Sylvester Lloyd Freel, M.D., Stouffiville, Associate Coroner for the County of Ontario.

## DIED.

On the 17 th ult., Dr. King, of Seaforth, in the doth year of his age.

On the 22 nd ult., of cholera infantum, Kenneth Duncan, only son of Dr. Mckinnon, Stratford, aged one year and five months.

## 总听

The Science of Homgopathy, or a critical and synthetical exposition of the Homosopathic School. By C. J. Hempel, M.D. New York : Bcericke \& Tafel. Price, $\$ 1.75 \cdot$

Archives of Electrology and Neurology, vol. r, No. 1, May, 1874 ; edited by George M. Beard, A.M., M.D., New York.

Electrolysis in the treatment of Stricture of the Urethra, by Robert Newman, M. D., New York.

Five years Surgical Work in the Manchester Roval Infirmary, by Edward Ludd, F.R.C.S., Manchester, England.

The Origin of Creation, a new system of Natural Philosophy, by Trfad. Halifax, N. S. The nucleus of the present work has already appeared in the form of essays on natural science. The author expects to revolutionize the whole theory of natural science taught in the present day. The book is a literary curiosity in its way, and as such we bring it under the notice of our readers.

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## CANADIAN MEDICAL ASSOCIATION.

## FIRST DAY'S PRJCEEDINGS.

The seventh annual meeting of the Canadian Medical Association was held at the Clifton House, Niagara Falls, commencing on Wednesday, the $5^{\text {th }}$ August, and continuing in session two days.

The President, Dr. Marsden, of Quebec, took the chair at io o'clock, a.m. The minutes of the previous meeting were read and approved, after which the President delivered the annual address, which was listened to with marked attention.

The following members were present, some of whom were elected at the present meeting:-Dr. Marsden, Quebec ; Dr. Botsford, St. John's, N.B.; IDrs. David, Hingston, Trenholme, and Robillard,

Montreal ; Dr. Grant, Ottawa ; Dr. Baxter, Cayuga; Drs. H. H. Wright, Giekie, Canniff, Thorburn, Oldright, Russell, Rosebrugh, Temple, C. B. Hall, and Fultun, Toronto ; Drs. McDonald, Mullin, Malloch and Case, Hamilton; Drs. Turquand, McKay and Scott, Woodstock ; Dr. Clarke, Princeton; Drs. Mack and Copeland, St. Catharines; Dr. Sloan, Blyth ; Dr. Fraser, Pelham ; Dr. Burgar, Welland; Dr. Hamilton, Millbrook, and several nthers. Dr. Jenks, Detroit, and Dr. Thompson, lansing, Mich., were present as delegates from the American Medical Association.

An interesting paper on "Enteric fever," which we publish elsewhere, was read by Dr. Malloch of Hamilton; another on "Uterine decidua," by Dr. Trenholme of Montreal, and one on "Monstrosities," by Dr. Mullin of Hamilton. Dr. Scott of Woodstock, brought before the nntice of the Association a new kind of "uterine supporter," which elicited considerable discussion. Dr. Botsford also exhibited a plan of bed for removing persons suffering severe illness or great pain. Certain amendments to the constitution and by-laws of the association were read and adopted. The papers above referred to were revewed by several of the members, and occupied the rest of the day and evening. Some of these papers will appear in the Lancer from time to time.

## SECOND DAY'S PROCEEDINGS.

The chair was taken at ro a.m. The minutes of yesterday were read and approved, and some new members enrolled.

The report of the nominating committee was next received.

The following are the officers for the ensuing year:-

Prcsiaent.-Dr. Botsford, St. John's, N.B.
Vice-President for Ontario.-Dr. McDonald, Hamilton.

Vice-President for Quebec, Dr. Rottot, Montreal.
Vice-President for New Brunswick, Dr. G. A. Hamilton, St. John's.

Vice-President for Nova Scotia, Dr. Wickwire, Halifax.

General Secretary.-Dr. David, Montreal.
" Treasarer.-Dr. Robillard.
Corresponding Secretary for Ontario-Dr. Malloch, Hamilton.

Corresponding Secretary for Quebec-Dr. F. E. Roy, Quebec.

Corresponding Sccretary for New BrunswickDr. Gregory, Fredericton

Corresponding Sccretary for Nova, Scotia-Dr. Moran, Halifax.

The following committees were appointed on the subjects named :-

Publication-Drs. Peltier, Marsden and Scoh. Medicine-Drs. Howard, Sewell, and H. H. Wright.

Surgery-Drs. Hingston, Canniff and Grant. Obstetrics-Drs. Trenholme, Lavell, and C . Ogden.

Therapeutics-Drs. Clarke, Thorburn and Fenwick.

Necrology-Drs. Campbell, Grenier, and Ie Wolf.

Medical Education and Literature-Dr: Bayard, Parker, and Fulton.

Climatology-Drs.Botsford, Larocque, Thomf. son, Mullin and Turquand.

Prize Essay-Drs. Hodder; Oldright, and Craik.
Some discussion arose as to the manner of ertertaining members of the association at future meetings, and Dr. Jenks of Detroit gave the assi ciation some valuable suggestions, arising from bis experience in providing for the meeting of tie American Medical Association in Detroit, a shor time ago. Dr. Hingston brought forward the sibject of acupressure in arresting hromorrhage in surgical wounds, and exhibited a small ecraser which he uses for the purpose of crushing the end of vessels to arrest hremorrhage. Several members took part in the discussion, some recommendin: torsion, some acupressure, and some the good od fashioned silk ligature.

A paper was then read by the Secretary, Dt: David, in the absence of the author, Dr. Homad of Montreal, on the "Pathology of Tubercle an" Pulmonary Phthisis."
A vote of thanks was passed to those who red papers; to the President ; to the railway and rari gation companies ; and to the proprietors of $\operatorname{taz}^{2}$ Clifton House for the use of the hall. The assiv ciation then adjourned to meet in Halifax on th first Wednesday of August, 1875. Dr. Bolsford was requested to appoint a committee to madr arrangements for the next meeting. The member then took dinner together, and left by the afternow trains for their respective homes.


[^0]:    *Treatise on Continued Fevers, page 465.

[^1]:    * Rokitansky, vol. 4, p. 359, says, "Tuberculosis does not occur either in or on the blood-vessels.

[^2]:    Sce Simpson on Ovariotomy.

