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Publication/Creation

London: Renshaw, 1851.

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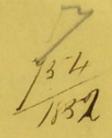
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A BRIEF ESSAY

ON THE



NATURE AND TREATMENT

OF

ERNIÆ OR RUPTURES,

ILLUSTRATED WITH ENGRAVINGS.

BY

DAVID TOD, M.R.C.S.Eng., ETC.,

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5, UPPER FITZROY STREET,

FITZROY SQUARE.

SIXTH EDITION.

LONDON:

PUBLISHED FOR THE AUTHOR BY
HENRY RENSHAW, 356 STRAND.
1851.

PRACTICAL OBSERVATIONS ON HERNIA

Notice of Hermin — A Hermin is a swelling or tumour formed by the protrusion of of some viscers out of the abdomen; and the places where these swellings most parently appear, are the groin, the labin pudendi, the hipper and forepart of the rin and the navel.

The contents of a herminal swelling-are, in general, a part of the intestimes only, or

the contents of a hermal swelling-are, in general, a part of the intestines only, or the omentum only, or of hoth together. Portions of the stomach, liver spleen, ras, overies, bladder, Sc., have also been known to constitute hermal turn ours. From these two circumstances—situation and contents—are derived the different tomical names by which hermin are distinguished. When a portion only of the stances constitutes the hermin turnour, it is called enterocele; when a portion only are omentum, it is called epiplocele; and when both intestine and omentum contact to form the turnour, it is called entero-epiplocele. When the protruding viscalled incomed hermin; and when they descend into the scrotum, it is called scrotal called incomed hermin; and when they descend into the scrotum, it is called an omental and all hermin. A congenital hermin is different from those above named. It general hermin. A congenital hermin is different from those above named. It general hermin. A congenital hermin is different from those above named. It general according to the contact of peritoneur, but

The following Notices have already appeared upon the merits of the Author's Truss

- "We have seen this truss in use. It is an exceedingly simple, clever instrument, and m be worn with extreme case and the best possible effect."—Lancet, July 4, 1846.
- "Mr. Top's truss, we think, will supersede those now in ordinary use. It is extreme simple, requiring no straps or other auxiliaries to adjust it, and does not weigh more that three ounces; and we understand it is approved and recommended by the Faculty."—Week Dispatch, July 24, 1842.
- "Mr. Top's Truss.—We have had the pleasure of inspecting this very ingenious, similar instrument, and we have likewise seen the number of the 'Lancet' in which the Editor that leading medical journal awards it his unhesitating approval, and pronounces it an 'ceedingly simple, clever instrument.' In these circumstances we have not the slightest he tation in adding our own humble testimony to that of the Editor of the 'Lancet,' and of other acknowledged high authorities; and perhaps we may be doing a positive benefit to some our readers, in thus introducing the subject to their notice."—Cambridge Advertiser, June 1847.

In abdomen, which is niwny faith is unconsequent in a be dealthy subject; one is the pressure of forces, which balance each other in the healthy subject; one is the pressure of a secretary against the wids of the abdomen, the other is the reaction of these walls in the visces. If these two forces were in perfect equilibrium in all individuals as a recent of the secretary parts of the abdominal walls are owner except, and the reaction offer less resistance to the pressure made by the first under any violent exertion offer less resistance to the pressure made by the first who had the navel are stuated, and where a disparity in the equilibrium he cruist arch and the navel are stuated, and where a disparity in the equilibrium was that hermic generally take place there. Scarpa, in his Traite des Hermas, and the pressure of the vistor being, in these parts, proportioned to the force of the pressure of the vistor being, in these parts, proportioned to the force of the pressure of the vistor being, in these parts, proportioned to the force of the pressure of the sister hermas practical observations prove that the immediate cruise of hermic is and of equilibrium between the pressure of the abdominal viscers, and the resistent or or several points of the abdominal parietes." Whenever that equilibrium facility, the action of all the abdominal parietes." Whenever that equilibrium facility and persons predtsposed to bernia thereby instructively or leads to the walls; and persons predtsposed to bernia thereby instructively

Printed by Richard Taylor, Red Lion Court, Fleet Street.

to they, in his Practical Observations in Surgery, relates a case in which a hermin consuct formed in a youth of sixteen, whose right testis had a little while before the lace of the disease descended from the groin into the scrotum. A similar case has a court before me in a resultenant of thirty-long years.

PRACTICAL OBSERVATIONS ON HERNIA.

Nature of Hernia.—A Hernia is a swelling or tumour formed by the protrusion of rt of some viscera out of the abdomen; and the places where these swellings most equently appear, are the groin, the labia pudendi, the upper and forepart of the igh and the navel.

The contents of a hernial swelling are, in general, a part of the intestines only, or the omentum only, or of both together. Portions of the stomach, liver, spleen, erus, ovaries, bladder, &c., have also been known to constitute hernial tumours.

From these two circumstances—situation and contents—are derived the different atomical names by which herniæ are distinguished. When a portion only of the testines constitutes the hernial tumour, it is called enterocele; when a portion only the omentum, it is called epiplocele; and when both intestine and omentum conbute to form the tumour, it is called entero-epiplocele. When the protruding vista pass through the abdominal rings so low as the groin, or the labium pudendi, is called inguinal hernia; and when they descend into the scrotum, it is called scrotal rnia. Crural or femoral hernia is the name given to that which takes place below oupart's ligament; and when the tumour is formed at the navel, it is called an umical hernia. A congenital hernia is different from those above named. It genely appears some months after birth*, and has no hernial sac of peritoneum, but lodged in the cavity of the tunica vaginalis in contact with the testicle.

When the constituent parts of a hernia may be put back into the abdomen, it is led a reducible one; and when they cannot be put back, owing to adhesions, &c.,

s called an irreducible one.

Causes of Hernia.—The causes of herniæ are two-fold, predisposing or exciting. e chief predisposing cause is constitutional weakness in those parts of the abdonal walls where ruptures occur. Anatomy has beyond all doubt ascertained that fibres of the transversalis muscle which cross the outer part of the inner abdominal g are in some persons not so strong as in others; and this constitutional muscular akness is the main predisposing cause of inguinal hernia. Predisposition to herniæ y also be the consequence of long-continued illness, which invariably produces prossive wasting in all the tissues of the body, and of course gradual loss of power all the weak parts of the abdominal walls to sustain the viscera.

The exciting cause of herniæ is the extreme pressure of the abdominal viscera inst the weak parts of the abdominal walls, when persons make any violent exon, such as wrestling, leaping, riding rough horses, lifting and carrying heavy

ghts, foot-racing, vomiting, coughing, sneezing, straining at stool, &c.

The abdomen, which is always full, is unceasingly under the influence of two oppoforces, which balance each other in the healthy subject; one is the pressure of viscera against the walls of the abdomen, the other is the reaction of these walls n the viscera. If these two forces were in perfect equilibrium in all individuals under all circumstances, no rupture would ever take place. But there are, as ady stated, certain parts of the abdominal walls not built so strong as others, and ch under any violent exertion offer less resistance to the pressure made by the This is especially the case where the abdominal rings, the crescentic margin he crural arch and the navel are situated, and where a disparity in the equilibrium ween the two before-mentioned forces occurs; the resistance of the abdominal Is not being, in these parts, proportioned to the force of the pressure of the vis-, so that herniæ generally take place there. Scarpa, in his Traité des Hernies, s, "Numerous practical observations prove that the immediate cause of herniæ is want of equilibrium between the pressure of the abdominal viscera, and the resiste of one or several points of the abdominal parietes." Whenever that equilibrium anting, the action of all the abdominal muscles is naturally directed against the e feeble parts of the walls; and persons predisposed to hernia thereby instinctively over the weak condition of those parts; for the least strenuous exertion they make

Mr. Hey, in his *Practical Observations in Surgery*, relates a case in which a hernia conta was first formed in a youth of sixteen, whose right testis had a little while before the mearance of the disease descended from the groin into the scrotum. A similar case has the total come before me in a gentleman of thirty-four years.

by coughing or sneezing prompts them to place their hands to the weak parts, when

they perceive that they are either actually ruptured or about to be so.

Symptoms of Hernia.—The symptons of herniæ are—a swelling in the groin, or a the navel, which disappears when the person lies on the back, and reappears on risin up: coughing will cause it to press against the hand when placed on it. If the hernia is an enterocele, and the protruding portion of intestine small, the tumour small in proportion, and it can generally be easily reduced; in its ascent into the abdomen it is often accompanied with a gurgling noise. If the hernia is an epiplocele the tumour is rather flabby and has an unequal feel; on reducing it no gurgling noise is heard. If the hernia is an entero-epiplocele, the tumour is not flabby, but it has likewise an unequal feel; on returning it, the gut ascends first, with a gurgling noise and the omentum follows, without producing that noise.

Treatment of Hernia.—From the preceding remarks, every person afflicted with hernia may easily infer that no permanent cure can be effected without the immediate cause of the disease being removed, that is to say, unless the weak parts of the abdominal walls become strong enough to resist the pressure of the viscera, and keep ther within the abdomen. This can be accomplished only by the combination of natural and art: Nature, if assisted by Art, will gradually heal up the breach made in the abdominal walls. The treatment of herniæ, therefore, embraces three operations:

The first is to restore the whole of the protruding viscera with their elongated per toneal sac into the abdomen; the second, to bring and permanently keep together the surfaces of the internal abdominal ring. This being satisfactorily accomplished, the remains to administer those medicines which experience has proved effective to around the inert restorative powers in the system, particularly at the seat of the disease.

This treatment, however, is only applicable to reducible herniæ.

As to irreducible herniæ, the treatment must depend on the condition of each ind a vidual case. There are two different stages of irreducible herniæ, the totally irreducible and the partly irreducible, the nature of which must be ascertained before any attempate at effectually relieving the patient is made. If the hernia is found to be totally irreducible from the contents of the tumour having become thickened and hardened, connected by adhesions with each other or with their containing sac, an attemptareduction ought never to be made. If however the contents of a hernial tumour at found to be but partly irreducible, in which case the irreducible part always consistent of the omental portion, and the reducible of the intestinal portion, the latter show cautiously be returned to the abdomen, and there retained by a properly constructed truss, to which a suspensory bag may be fixed to support the irreducible oment to portion, in order to lessen the inconvenience arising from the weight of the protrusion of

In trying to reduce a hernial tumour, only moderate pressure must be used, at the patient should be kept constantly talking to prevent the retention of the breath for in this state a reduction cannot be effected, as the simultaneous pressure of the

diaphragm and of the abdominal muscles on the viscera opposes it.

If the case be an inguinal hernia situated in the canal between the internal are external rings, the protruding viscera will slip back into the abdomen, by the patient merely lying down on his back, or standing in an erect posture, a gentle pressure being made with the fingers upon the tumour. In the case of a scrotal hernia, the patient should lie down on his back, have the pelvis raised about four inches high than his shoulders, to lessen the superincumbent weight of the viscera in the illipregions of the abdomen; the legs extended, separated and quiescent to extend the illipregions internus and psoas magnus musclest behind the internal ring and inguin canal; then softly squeeze the lower portion of the tumour to force the fluid contents.

* I purposely omit to include the nature, symptoms and treatment of strangulated here in this essay, which is more immediately intended for the guidance of ruptured persons, whom the disease has not reached that dangerous state. Most earnestly would I warn the against delay, particularly those recently ruptured, in applying for remedy and preventimens to duly qualified men, and not to seek relief, as is too frequently the case, at thands of individuals unacquainted with the pathological anatomy of hernia, which may have consequences still worse than procrastination. In far the most cases that come under a cognizance, incarceration of hernia has been brought on by the ruptured person having we an ill-constructed truss.

† When the thigh is flexed, the contraction of these muscles behind the inner ring and i guinal canal obstruct the return of the protruding viscera. The same remark is applical

to the pectinalis muscle in femoral hernia.

into the abdomen: after this, grasp the tumour, make a gentle but steady pressure upwards, and the protruding viscera will forthwith slip back into the abdomen. If this operation prove ineffectual, the sooner the assistance of a surgeon is procured,

the better, as through delay the patient's life may be placed in jeopardy.

If the case be a femoral hernia, the patient should place herself in the position recommended for reducing a scrotal hernia, to extend the pectinalis muscle below the crural arch and behind the falciform process of the fascia lata, and to form a depression in the upper and inner part of the thigh close to the groin, having the sartorius and rectus femoris externally, the gracilis and adductor longus internally, with the pectinalis and adductor brevis behind; then softly squeeze the tumour to force the luid contents into the abdomen: after this, press the tumour with the thumbs gently lown towards the saphenic opening* in the fascia lata, whilst the tips of the fingers re cautiously urging the protruding viscera through that opening in the direction of he femoral ring, i. e. backwards and upwards until they disappear.

The mode of returning an umbilical hernia need not be described here on account

f its simplicity.

With respect to the second operation of the treatment, namely the bringing and ermanently keeping together the surfaces of the internal abdominal ring, I will peat here what I have already published in the 'Lancet,' July 4, 1846, upon his subject:--"About twelve years ago my attention was directed to the various inds of trusses then recommended and used in the treatment of inguinal hernia. fter a minute examination, I perceived that all these instruments were formed thout any reference to the anatomical structure of the parts affected—that the pad every truss could only press upon the external abdominal ring; consequently could pt prevent the viscera from passing through the internal ring and lodging in the hal between the two rings, to the imminent danger of the wearer. I likewise erceived, that when strong pressure of the pad was required to prevent the viscera om escaping beyond the external ring, the circulation of the spermatic chord would interrupted, and thereby cause great injury to the patient 1. To prevent such fects, I constructed a truss upon a principle totally different from all others; and can now state that nearly one hundred persons, males and females, are wearing y invention, without having the least protrusion of the viscera, or the functions of y structure interrupted.

"It is difficult to give a correct description of the truss, which I now strongly remmend to the notice of the numerous professional readers of the 'Lancet.' The d, which is about the size and shape of the point of a man's thumb, presses gently er and a little below the internal abdominal ring, to enable the fibres of the trans-realis muscle which cross the outer part of the ring to sustain their tone, and the ner structure of the ring and inguinal canal their integrity. From the pad the ring of the truss ascends obliquely towards the spine of the ilium, forms a curve ove the crista ilii, passes across the back, then descends and terminates in the opsite groin. The pressure of the truss is confined chiefly to the pad and curves of hoop: but care is requisite in fitting the truss to the part where the pressure of

pad must be made, else the instrument will be of no use to the wearer.

As the bones of each person have something peculiar, I make it a rule, when blied to for a truss, first to ascertain the nature and condition of the hernia, and take with the utmost correctness, the size and shape of the pelvis. After this I the truss to the patient, and test its capabilities under various circumstances before ave it finished.

None of the actions of the abdominal muscles should be interrupted by the use of truss; very little pressure of the pad is required to retain the viscera within the tomen; the effect produced by a slight pressure of a finger over the internal abtainal ring will convince any ruptured person of this. Nor ought a properly fitted

This opening is situated about an inch and a half below the groin. See plate 2. No. 4. I have recently attended two cases of this kind, one exhibiting symptoms of inflammation, tother of strangulation. I succeeded in relieving each patient by dilating the external with the point of the little finger, and thus removing the spasmodic stricture at the irral ring, when the tumour disappeared.

Of several hundred persons that have come under my notice, and had worn trusses structed to press upon the external abdominal ring, nine only were free from disease of

spermatic chord or testicle.

The number amounts now to above two thousand, and in many cases the ruptured parts

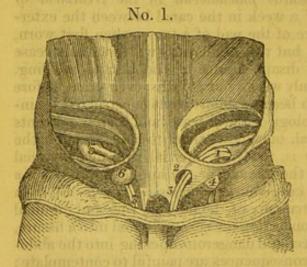
truss to shift out of its position, nor give any annoyance to the wearer worn over or under the shirt."

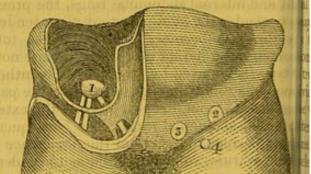
I have stated in the preceding extract, that in wearing a truss, none of the actions of the abdominal muscles ought to be interrupted, and that the pad should press but gently over the aperture through which the viscera protrude. The pressure of the pad should just equal the resistance required to keep the viscera within the abdomen; any amount of pressure beyond that is not only unnecessary, but injurious; for in the treatment of hernia we ought to be guided by the same principles which serve us in the treatment of other local injuries. A hernia is a local disease, consisting of a separation of two surfaces which were united by cellular substance, and of a protrusion of viscera between them. A properly constructed truss is an instrument adapted to keep those two separated surfaces together, to prevent the least protrusion of the viscera; and to fit the peculiar shape of the pelvis without interfering with the functions of any important structure. A truss not possessing these properties will invariably increase the sufferings of the patient, and place life in jeopardy.

With respect to the third part of the treatment of herniæ, namely the administering medicines capable of soliciting nature to heal up the breach made in the walls of the abdomen, these must always have reference to the causes and condition of the disease and be very gentle in their effect; for everything of an irritating nature must prove

detrimental to the reproductive powers of life.

The following diagrams will facilitate the better understanding of the nature and surgical treatment of inguinal and femoral herniæ.





No. 2.

represents on the left side the anatomical represents on the right side an oblique ingustructures of the abdominal rings and a femoral hernia protruding under Poupart's ligament; and on the right side an oblique inguinal hernia converting the inguinal canal into a fissure and escaping through the external abdominal ring.

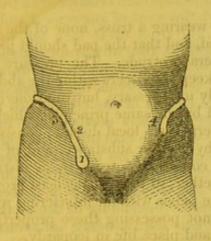
- External—abdominal rings. 1. Internal.
- Spermatic chord.
- 4. The femoral hernia.
- 5. The viscera in the inguinal canal and protruding through
- 6. The external abdominal ring.

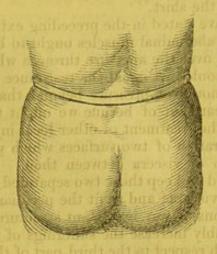
nal hernia passing through the internal abd minal ring, and on the left side the situation of the abdominal rings, and the saphen opening in the fascia lata femoris.

- 1. The hernia.
- 2. Internal. 3. External—abdominal ring
- 4. Saphenic opening.

By the plates No. 1 & 2, it will be seen that the internal abdominal ring situated close to the groin, about one inch and a half from the external ring. easily discovered by lying on the back, placing the tips of the fingers in the gro and then coughing, when something will suddenly push against, and recede fro one of the fingers-this will denote the situation of the internal ring. There another way of discovering the locality of the internal ring, that is by the paties standing erect, placing the fingers of the hand on the side of the rupture over the external ring to prevent the tumour passing through it, then pressing gently by steadily with the fingers of the other hand upon the swelling, following it with the point of a finger until it vanishes, when the finger will be over the internal ring.

No. 3. r of symptomic year avery root mortison No. 4





nows how the truss is worn in an inguinal shows the situation of the truss behind.

The pad of the truss covering the internal abdominal ring.
 The neck of the truss ascending and forming a curve above,

3. The anterior superior iliac spine.

4. The distal end of the truss which prevents the instrument from shifting out of its proper position.

A few monitory remarks on some incidental phanomena in the treatment of ernia.—If a hernia has existed upwards of a week in the canal between the exteril and internal abdominal rings, the pressure of the pad of a truss, when first worn, ay render the skin over that place tender; but this tenderness will gradually cease the skin becomes healthy on the total disappearance of the hernial swelling. ometimes a hernia is allowed to exist not only weeks but months, even years, before truss is resorted to; this truss has hitherto been an instrument constructed by inviduals totally unacquainted with the pathology of the disease, and merely prevents e viscera from escaping beyond the external, but allows them to pass through the ternal, abdominal ring. The consequence is, that the internal ring and inguinal nal become, either from the negligence of the patient, or the application of such a cless truss, so disorganized as to render a cure almost hopeless. For in all such ses the protruding viscera force the inner structure of the internal ring and inguinal hal down to the tuberosity of the os pubis, converting the ring and canal into a fissure, larging the external ring and forming a direct and dangerous opening into the abdoen, as represented in plate 1, No. 5. The consequences are painful to contemplate; in any sudden exertion the pressure of the diaphragm and the abdominal muscles ly force the protruding viscera beyond the external ring down into the scrotum or bium pudendi, and in their passage over the crest of the pubis become pinched by truss; active inflammation soon sets in, contraction of the pinched gut ensues, d sometimes strangulation which may render an operation indispensable*. Where ese sad consequences do not occur, others of a very distressing nature often take ce from the use of a truss made to press over the external, instead of the internal dominal ring. These are, partial paralysis of the cremaster muscle with elongation the spermatic chord, varicocele, disease of the testicle and consequent impotency. e effects of these various injuries may be no less distressing on the constitution, in all local diseases the constitution suffers in exact proportion to the magnitude the injury or the disease, and to the importance of the part or parts affected in general economy. When any of the abdominal viscera are displaced by rupture, dragging of the displaced viscera disturbs the digestive functions: the assiming system then becomes diordered, and the whole body has an unhealthy aprance. The dragging sensation is in many cases so severe, that it prevents the ient from participating in any social enjoyment, and his life is thereby rendered serable.

Sir Astley Cooper, in his Treatise on Inguinal and Femoral Hernia, says, "An ill-conacted truss affords a false security more dangerous even than a total omission of this kind support, since it encourages the patient to take violent exercise without apprehension of probable consequences."

These remarks upon useless, and consequently dangerous trusses for males, natural rally lead me to say a few words on the condition of ruptured females, who from delicacy conceal the sufferings they are put to through the want of anatomical and pathological knowledge in truss-makers or vendors. The truss these men sell to relieve the femoral hernia common to the female, is the same kind of instrument they have hitherto used for inguinal hernia common to the male. The structures of the affected parts are totally different in the two sexes. In a femoral hernia the viscera protrude under Poupart's ligament, between the crescentic margin of the crural arch and the femoral vein, descend obliquely outwards between the fascia pectinea and the falciform process of the fascia lata, pass through the saphenic opening in the upper parof the thigh, and not through the external abdominal ring on which the pressure of an ill-constructed truss invariably bears; consequently a femoral hernia is allowed to appear and gradually increase in size whenever the patient is not in a recumbenposture. By wearing such a truss, if persisted in notwithstanding its faults, the pressure of the pad upon the neck of the hernial sac may soon produce inflammation in the tumour; adhesions then take place and the hernia becomes irreducible, to the lasting annoyance and imminent danger of the sufferer.

I conclude these monitory remarks with the all-important advice to persons who have in all appearance been completely cured of hernia by the treatment indicated in this Essay, ever to bear in recollection that the cause of the disease was constitutional weakness in the structure of the ruptured parts; and that it will therefore be prudenthat they should continue to wear their truss, in order to prevent a recurrence of the disease at the same weak spot, which can never be made stronger than it was before the hernia took place: and "a hernia once cured and allowed to reappear is more

liable to incarceration than a recent hernia*."

The newly-invented truss referred to at page 5 of this Essay, will be transmitted to any part of the country, by the applicant forwarding to the Author the following particulars:—The exact measure around the body above the hip-bones, the magnitude, duration, and side of the rupture, the age and height of the person. If the assistance of a surgeon can be procured for the measurement, a readier success in fitting the truss to the case will be ensured by the following additional particulars,—the exact distance from the anterior superior iliac spine to the internal abdomination.

ring, and to the spinous process of the third lumbar vertebra.

Should the spring of the transmitted truss, notwithstanding these precautional measures, prove stronger than necessary to retain the viscera within the abdomer pass a piece of tape round the neck of the instrument close to the pad, and raise gently, while strongly coughing, from the belly, till the swelling appears. Reper the experiment several times, and if the result is always the same, you may drap approximatively your conclusions, from the degree of force used in raising the pack what decrease of pressure the instrument does require, and give your informatic accordingly. The use of a gravimetre or spring balance in making the aforesait experiment would enable the person to indicate more accurately the required dim nution of the pressure.

If, on the contrary, the spring of the truss should not prove powerful enougalways to retain the viscera within the abdomen, or otherwise not exactly fit the body, it will suffice to state, as regards the deficiency of power in the spring, undowhat circumstances the viscera happened to protrude, whether during the ordinal avocations of the wearer, or on his making any extra exertion or violent effort, are whether it occurred more than once. In the case of the truss not exactly fitting the body, slips of paper, indicating the required alterations, should be tied to the fault parts, and thus it should be returned carriage free. It will then be altered and forwarded, or another sent in lieu of it, which will better meet the wants of the case.

Severe cases can only be relieved by a personal application to the Author in Lordon, who may be consulted every day from 9 till 12 A.M., and from 6 till 9 p.: He has no agents to sell his Trusses, every one is made to order, and adapted to the nature and condition of the hernia.

Price of the truss £2 2s. for a single one, and £3 3s. for a double, to be paid I post-office order, at the office, Tottenham Court Road, London, when the order given, and the truss will be forwarded in two or three days.



