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NOTES

ON

CLINICAL MEDICINE.

BY

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120. H.

ON DIPHTHERIA.

120. H.

ON A CASE OF AORTIC ANEURISM, IN WHICH A COM-MUNICATION WITH THE PULMONARY ARTERY WAS RECOGNISED DURING LIFE BY PHYSICAL SIGNS.

BIRMINGHAM:

JOSIAH ALLEN, JUN., 9 & 10, LIVERY STREET. M DCCC LXIII. By the Same Author.

AN ESSAY UPON THE SYMPTOMS, PATHOLOGY, AND TREATMENT OF RETRO-UTERINE HÆMATO-CELE. ILLUSTRATED BY NUMEROUS CASES, ORIGINAL AND SELECTED.

LONDON: JOHN CHURCHILL, NEW BURLINGTON STREET.

(In preparation.)

ON DIPHTHERIA.

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Four years ago I published a fragmentary memoir upon diphtheria, intending to finish it at an early date. But much remains yet to be done before a complete account of this difeafe fhall be poffible. The fact that a great majority of cafes occurs in private practice, where facilities for minute obfervation during life are fcanty, and post mortem examinations are constantly refused, is one principal cause of our deficient knowledge. Another is, that public attention has not yet been fufficiently attracted to certain points, the determination of which is effential to any fatisfactory hiftory of the difeafe. In the hope of procuring for these points that investigation which is due to them, and which most affuredly they will eventually obtain, I venture to fubmit the following propositions to the profession. The ftyle adopted is certainly open to the imputation of curtnefs; but it feems to me that by divefting the fubject as far as poffible of extraneous matter and verbiage, those who defire to do fo will the more readily arrive at my meaning. I have abstained from particularifing the data upon which these conclusions are based. Some of them are received medical dogmas. With regard to the others, the continued prevalence and fatality of diphtheria will enable every one to judge for himfelf whether or no it prefents the features and phenomena here indicated, and whether the practical conclusions here drawn are wholly, partially, or at all juftifiable. I have the fatisfaction of knowing that the principles and practice here recommended are most highly approved by those practitioners who have most fully tested them at the bedfide. I have only to add that, in the hope of con-

centrating attention upon certain points in the natural hiftory of the diforder, many others of great intereft have been entirely omitted.

1. At the commencement of the prefent epidemic, being diffatisfied with previous po/t mortem examinations, which had been limited to an investigation of those parts whose tiffues are continuous with those of the throat, and having noted phenomena which were not thereby explained, I determined, when opportunity should offer, to examine the state of other organs whose tiffues were not fo continuous.

2. The first *post mortem* furnished me with kidneys (of which I retain a drawing) as much altered in appearance as any that we find after death from scarlatinal dropsy.

3. Obvious pathological analogies led me then to fufpect that fuch a condition would be attended with albuminuria during life. The examination next day of the urine of a patient under the care of Mr. *Robins* fhowed that it contained albumen. The frequent occurrence of albuminuria in diphtheria has fince been univerfally recognifed.

4. Curioufly enough fubfequent diffections have but rarely furnifhed me with kidneys fo confpicuoufly altered as these first ones. The changes are more commonly microscopical; confifting of crowding and opacity of the epithelium, which is most readily detached and rapidly difintegrates.

5. Cafts of various kinds are to be found in fome fpecimens of the albuminous urine of diphtheria.

6. This albuminuria and thefe anatomical alterations of the kidney are important as flowing---

- (a) That the difeafe does not fpread folely by continuity of tiffue, as had been previoufly believed;
- (b) That in fome cafes the diforder has a tendency to migrate; and in fuch there is more reafon to apprehend croup and other complications than in cafes where this migratory tendency is not apparent.

7. Albuminuria as a fymptom of difeafe is important from the fact of its being frequently, though not neceffarily, connected with and dependent upon conditions which impair the excretory action of the kidneys.

8. In many cafes there are indications of diphtherical albuminuria being fo affociated.

9. These indications are: diminution of urine in quantity; fuppression of lithates; nervous symptoms---as indifference to furrounding objects, somnolence, coma---coincidently with the commencement of albuminuria, and not referable to any other known cause but the kidney complication.

10. The commencement of the albuminuria may be attended by an increase of the pyrexia, unexplained by any increase of the local diforder or other efficient cause.

11. These symptoms are relieved by increased urinary excretion.

12. Albuminuria is not neceffarily attended by any obvious fymptoms of an unfavourable character.

13. An imperfect elimination of urinary elements may be unattended by albuminuria. In one cafe, fudden diminution of the urinary fecretion without albuminuria was attended by fwelling and pain of the carpal joints (rheumatic?). The fymptoms defcribed in No. 9 are developed coincidently with this imperfect elimination.

14. I have not obferved the early prefence of albumen in the urine, which, from the concurrent teftimony of truftworthy obfervers, no doubt frequently occurs. Two explanations of this fact offer themfelves. In the first place, most of my cafes have been feen in confultation, which is demanded in the majority of cafes only when fatal fymptoms have already fupervened. Secondly, my treatment has long been directed to the prevention of kidney complication.

15. Apart from its early occurrence, there feems to be a fpecial tendency to albuminuria about the feventh or eighth day, at which time the diforder has a natural tendency to terminate. Under fuch circumftances it is to be looked upon as a critical phenomenon. It may occur at any period.

16. Kidney affection commonly precedes other complications, fuch as croup and purpura.

17. More exact observation upon the amount of urinary

excreta, before, during, and after intercurrent albuminuria, are much wanted. Alfo in cafes where albuminuria does not occur.

18. If there be retention of urinary elements in the fyftem, it is probable that it tends to induce other complications. (See Dr. Parkes' Lectures on Pyrexia.)

19. I have found fpecimens (of which I retain drawings) of anatomical alterations of the fpleen, which has in fome inftances been found folidified, and of a pinkifh-buff colour.

20. The microfcope flowed that in fuch fpleens there was an unorganifed, hyaline, femi-folid material filling the interfpaces of the trabeculæ.

21. I have also found alterations of the spleen such as Dr. Habershon has described as occurring in cases of purpura.

22. In no cafe has manifest alteration of the spleen been found after death where purpura had not been observed during life.

23. Some cafes of purpura have been feen in which I could not undertake to fay that the fpleen was abnormal.

24. There is no conftant proportion between the feverity of the purpuric fymptoms and the amount of fplenic change.

25. The vaft majority of fatal cafes have prefented croupy fymptoms in the laft ftage, but many would probably have been fatal without the croup.

26. In no cafe that I have diffected was the laryngeal exudation continuous with the faucial.

27. In no cafe of croup that I have diffected has the exudation failed to extend beyond the bifurcation of the trachea. In most instances it has extended into the minute ramifications of the bronchi.

28. The tracheal and bronchial exudation has varied in confiftency from a very firm membrane to a pafty granular layer.

29. In two cafes, befides (other?) purpuric fymptoms, I found after death nodules of pulmonary apoplexy.

30. In one cafe I thought that there was fome hyaline exudation in the fupra-renal capfules. In that cafe, and in another, thefe organs were intenfely vafcular.

31. We are juftified by the preceding observations, as well as by other well-known fymptoms of the difease, in looking upon

diphtheria as a zymotic difease; not as *Bretonneau* conceived it to be, a local difease spreading by continuity of tiffue, and only affecting the system in a secondary manner.

32. I have never flated, and I am not prepared to flate, my opinion upon the relation, if any, between diphtheria and fcarlatina.

33. To those who find less difficulty in coming to a positive conclusion on the point, I beg to recommend the following confiderations:

- (a) Scarlatina and diphtheria may be affociated.
- (b) Scarlatina is not neceffarily accompanied by efflorescence, or by noticeable fever.
- (c) Diphtheria may probably affect the fyftem without producing any throat exudation.
- (d) Scarlatina may recur.
- (e) Certain forms of fcarlatina may be accompanied by albuminuria.
- (f) Scarlatinal albuminuria does not neceffarily produce dropfy; dropfy, in fact, is the exception in albuminuria accompanying fcarlatina.
- (g) Any occafional form of a specific fever may become the type of an epidemic.
- (h) Granting that fcarlatina and diphtheria are both zymotic diforders, we do not know what is the nature of their refpective poifons.

34. Local treatment exerts no known influence upon the general course of specific fevers.

35. The true rule of practice in fuch difeases is to obviate the tendency to death.

36. The tendency to death in diphtheria is fometimes by afthenia, directly induced by the blood-poifon; fometimes by complications, of which the earlieft is generally a kidney affection, interfering with urinary elimination. We must therefore eliminate the poifon, and if poffible *prevent* the complications.

37. In pyrexial diforders, one of the most constant and mysterious phenomena is the quantity of water disposed of by the fystem. (See *Parkes* on Pyrexia.)

38. In diphtheria the quantity of ingefta will be commonly fmall if the patient be allowed to confult his own convenience.

39. Water is effentially neceffary to the performance of the urinary functions.

40. Concentration of the urine is equivalent to kidney irritation.

41. Diphtherical albuminuria is often preceded by urine of high fpecific gravity. The fupervention of albuminuria may fail to reduce this.

42. It is often preceded by the depofits of lithates, flowing a comparative paucity of the urinary water.

43. All plans of treatment which have been adopted on the large fcale for the treatment of diphtheria have embraced the ingeftion, in large quantities, of fluid nutriment as an important if not effential element.

44. By the copious administration of pure water or diluents in diphtheria, the urine may be often enormously increased in quantity, without corresponding diminution of its specific gravity, which is indeed sometimes actually higher at the same time that the quantity is increased.

45. This feems to indicate that the detritus of interfitial metamorphofis had been previoufly infufficiently eliminated.

46. I recommend the ingeftion of bland fluids in as great quantity as the patient will take : half a pint every hour or two, if poffible, in the cafe of adults.

47. To avoid chills, I recommend that in all cafes the patients fhould be clothed from head to foot in a flannel gown, and kept in bed. I believe that the adoption of this plan would have faved almost innumerable lives, more especially in flight cases.

48. Affuming the prefence of a fubftantive poifon in the fyftem, we know no drug which will act as a direct eliminant but iodide of potaffium. It pofitively eliminates lead, and we may prefume that it pofitively eliminates fyphilis.

49. I employ iodide of potaffium in two, three, or four grain dofes, every two or three hours. I have been in the habit of conjoining with it chlorate of potafs in five to ten grain dofes.

50. I have known no inftance of a fatal termination where this plan of treatment had been carried out. I have known no

inftance of ferious fymptoms or of fecondary paralyfis fupervening where this plan had been rigoroufly carried out. The difficulty, efpecially with children, is in infuring a copious fupply of fluid.

51. This plan exercifes a fpeedy and falutary influence upon the general fymptoms of the difeafe. The exudation often diminifhes with extraordinary rapidity. Effential fevers run a definite courfe, and can be rarely if ever cut fhort. Till the difeafe has gone we cannot be free from the danger of complication. Hence the immenfe importance of continuing the treatment after immediate relief has been obtained.

52. Aqueous injections may be employed to fupplementalife ingeftion by the mouth; but this is a plan of very inferior efficacy. If deficiency of urine be prefent, bitartrate of potafh, finapifins to the loins, warm bath, and folution of acetate of ammonia help to reftore it.

53. This general plan of treatment does not preclude other remedies in fpecial cafes, or to meet fpecial indications.

54. Where it has been carried out I have not found a neceffity for ftimulants, nor have I found that thefe, when adminiftered, have produced that immediate and fenfible (even if incomplete) amelioration that we expect to fee in cafes where they have a beneficial influence.

55. The fame may be faid of tonics and iron. I have never met with fuch marked anatomical alterations as in cafes which had been freely treated with a mixture containing muriated tincture of iron and hydrochloric acid. It does not neceffarily follow from this that fuch remedies may never be required; but they fhould not be ufed indifcriminately and recklefly.

56. It is contrary to the ordinary rules of our art to interfere with the local development of blood-poifons, except for fpecial reafons.

57. The faucial exudation of diphtheria is to be confidered as the local manifestation of a general difease.

58. Interference with it will not prevent its reproduction, nor will it prevent laryngeal complication, nor will it prevent the fupervention of grave conftitutional diforder. It is, befides, exceedingly irkfome to young patients.

59. We are justified in interfering with the throat exudation

when there is exceffive fetor, or when it is fo copious as to interfere with refpiration or deglutition---not otherwife.

60. If the croup always extend below the bifurcation of the trachea, tracheotomy is but a forlorn hope; as fuch it may be right to refort to it in fome cafes.*

61. I am not fatisfied with that explanation of the fecondary paralytic affections which attributes them to reflex irritation. Poffibly minute diffection might difcover fome organic change in (a) the nervous centres, (b) the nervous periphery, or (c) the mufcular tiffues.

62. Albuminuria may or may not be prefent in cafes of diphtherical paralyfis.

63. Cafes of paralyfis progrefs fo flowly when treated fimply by quinine and other tonics as to lead to the fuppofition that thefe drugs exert no direct influence upon this fequela, which probably in fuch cafes wears itfelf out.

64. I believe that I have obtained more fpeedy refults with eliminants---as iodide of potaffium, iodide of iron, and bichloride of mercury with bark.

65. Blifters to the top of the fternum, if applied early, feem to exercife a most beneficial influence upon the paralysis of the palate.

66. Paralyfis may follow, as kidney complication may attend, flight as well as fevere cafes of diphtheria. In one cafe I have heard that the paralyfis has lafted two years, and may be confidered permanent.

67. I am acquainted with one cafe in which the patient has recovered, but in which albuminuria is still occasionally prefent, four years after the primary attack.

* According to M. Roger, twenty per cent. of the children operated upon at the Hôpital des Enfans Malades in Paris recover.--- Archives Générales de Médecine, April, 1862.

A CASE OF AORTIC ANEURISM,

IN WHICH A COMMUNICATION WITH THE PULMONARY ARTERY WAS RECOGNISED DURING LIFE BY PHYSICAL SIGNS.*

SINCE the appearance of Dr. Thurnam's memoir but little has been added to our knowledge of varicofe aneurifm within the great cavities.

Though fuch cafes are certainly not common, yet they are fufficiently fo to make it defirable that we fhould be able to recognife them during life.

When the communication has been between the aorta and either of the venæ cavæ at any diftance from the heart, the nature of the difeafe has not been ufually very obfcure. In the only cafe which I have feen of this clafs, the opening was into the fuperior vena cava. Though the patient was only feen once I had no great difficulty in making a correct diagnofis. The opinion formed was confirmed by *poft mortem* examination.

Communications with any of the great veffels clofe to the heart prefent more difficulty for various reafons. Perhaps the moft important is that aneurifms originating fo near the heart, as those ufually do, rarely attain any great fize, and hence the preffure phenomena, upon which the diagnofis of aneurifm mainly refts, are but ill developed.

In the prefent cafe the diagnofis was rather of a preternatural communication between the aorta and pulmonary artery probably aneurifmal, than directly of aneurifm. And it is extremely doubtful whether the aneurifm could have been difcovered previous to the eftablifhment of the abnormal communication between it and the pulmonary artery.

* This paper is reprinted (with alterations) from the Transactions of the Royal Medical and Chirurgical Society, by the permiffion of the Council.

The diagnoftic fuccefs here obtained is certainly an encouragement to make the attempt to unravel fuch cafes hereafter. It will alfo be an affiftance to our future efforts, fince the acouftic phenomena were those we might naturally expect to attend fuch phyfical conditions, and are therefore pretty certain to be prefent in all the cafes of which the anatomical conditions are nearly fimilar. This belief is fortified by the fact that in Dr. Hughes Bennett's cafe, where the leftons were nearly the fame, the phyfical figns also corresponded. And although Dr. Bennett did not come to any precife diagnofis during life, he neverthelefs confiders with me that the relation between the founds heard during life and the leftons difcovered after death was evident. He fays that there was "evidence of a profound lefion of the heart, although its nature was very mysterious, the more fo as no thrill or tremor was detected. The cafe, however, was at once made clear, and the nature of the founds explained by the examination of the body after death.

James Selwood, æt. 35, married, a porter in the Parcels Office at the New Street Railway Station, applied at the Birmingham General Difpenfary, on May 1st, 1860. He was a fine-looking, well-made man, and complained of flight cough, fome general debility, and a little lofs of flefh. Thefe fymptoms had been coming on for feveral months. Sufpecting phthifis, I ftripped him to examine the lungs. Not finding any fign of difease in the anterior portions of these organs, I applied the stethoscope to the heart, and directly heard founds which convinced me that the cafe was not one of ordinary valvular difeafe. I therefore recommended the patient to enter the Queen's Hofpital, under my care, which he did in a few days. I found that for four years he had fuffered much from piles, and about November, 1859, had loft as much as a pint of blood in a day, and, ever fince, the loffes have been confiderable. To these fluxes he attributed the debility and wafting which induced him to confult me. About Christmas, 1859, his duties, in calling over the parcels, &c., being at that time very onerous, he fuffered for a day or two from hoarfenefs, and has fince often felt a rifing in the throat. Two weeks before I first faw him, while wheeling a heavy truck across the line, an engine ran up, and, to avoid it, he was obliged to make a violent

and fudden fpring; he directly felt very faint, and was compelled to fit down for fome time, but thought no more about it. He had never had any palpitation. His appetite was good, and he flept well. He had a little cough, with expectoration of watery mucus, and flight dyfpnœa on exertion; but the cough was moft troublefome on lying down.

Phyfical examination fhowed that the cardiac dulnefs was increafed in the vertical direction. The apex could be diffinctly feen and felt beating in the fixth intercostal space, and the heart was also to be feen beating in the fifth. Over the cartilage of the fourth left rib two loud murmurs were heard, inftead of the ufual cardiac founds; that, with the fecond found, being of a hiffing character, and fo prolonged as to continue till the commencement of the next ventricular fystole. At this fame fpot a very confiderable purring tremor accompanied the fecond murmur. The first murmur was of a loud bellows character. Both murmurs were audible as high as the bifurcation of the common carotids, in the back, and over all the upper part of the cheft; they did not feem to be peculiarly propagated towards the left fubclavicular fpace. At the apex of the heart a fingle murmur only was to be heart, and this evidently attended, or rather replaced, the cardiac first found; it could be traced eafily down to the enfiform cartilage. At the apex, the cardiac fecond found was very diffinct and quite natural; no trace of murmur.

I found no venous diftention or pulfe. The pulfation of the carotids was very visible, particularly on the left fide, and marked by fome, though not confiderable, thrill. The heart's action was quiet and regular.

The only abnormal phyfical fign in the lungs was fome mucous râles at the bafe of each, equally on either fide. Pupils contracted, but mobile; liver enlarged, no icterus; urine normal.

From this combination of phyfical figns, I concluded---

Ift. That blood efcaped either from the aorta or the pulmonary artery during their fyftole, from the loud hiffing, prolonged murmur replacing the fecond found at the bafe of the heart.

2nd. That it was probably from the aorta that the blood efcaped, from the propagation of the found up the arteries of the neck, and their visible pulsation and fensible thrill.

3rd. That the blood did not regurgitate into either ventricle, from the absence of any regurgitant murmur at the apex of the heart, where, on the contrary, an ordinary second sound was audible. It is true that flight regurgitant murmur is not neceffarily conveyed to the apex of the heart; but I have never yet found it absent there, except when the murmur was very flight, whilst in this case the murmur was very loud and histing at its point of origin.

4th. That the blood probably regurgitated into one of the auricles, or into the pulmonary artery.

5th. That it did not regurgitate into the left auricle; inafmuch as, had it done fo, we fhould have found more decided pulmonary engorgement, and hæmoptyfis rather than hæmorrhoids or hepatic enlargement.

6th. That the opening was rather into the pulmonary artery than into the right auricle; becaufe aneurifms more frequently perforate the former. In eighteen cafes of varicofe aneurifm recorded by Dr. *Thurnam*, eleven had perforated the artery, and only feven other parts, even including cafes of communication with the fuperior and inferior venæ cavæ. Of twenty-nine cafes collected by Dr. *Sibfon---*

17	opened into the	pulmonary artery.
6	"	right auricle.
3	"	right ventricle.
3	"	left ventricle.
0	,,	left auricle.
-		
20		

In feven others the aneurism had opened into the vena cava defcendens.

Further, the frémissement was to the left of the sternum, whereas in recorded cases of openings into the right auricle the frémissement presented its maximum intensity at the right of the sternum.

7th. That the communication was probably owing to aneurifmal perforation of the aorta at or near its origin. Becaufe there was no hiftory of cyanofis to indicate any congenital malformation of the heart. The increafed vertical dulnefs, age, formation, and occupation of the patient, as well as fome points of his hiftory, lent ftrength to this view.

8th. That the aneurism sprang from the root of the aorta, or near it.

To proceed now with the narration of the cafe.

No change took place in the phyfical figns during his refidence in the hofpital of about three weeks, except that after a confiderable hæmorrhoidal lofs the murmurs and frémiffement all became intenfified; they, however, foon reverted to their former condition.

At his urgent requeft that fomething fhould be done for the piles, I allowed Mr. *Wilders*, our able houfe-furgeon, to touch them with nitric acid. After this they bled lefs, though the hæmorrhage was never completely fuppreffed, nor indeed did I wifh that it fhould be.

He declared that he was quite well, except that his breathing was a little fhort. I could not induce him to remain longer in the hofpital, as he was determined to refume his employment, which he accordingly did.

Upon the morning of the 14th of June, 1860, having been at work all night, he was feized about fix a.m. with præcordial oppreffion and faintnefs, fuch as he had never previoufly experienced. Neverthelefs, after getting fome brandy and lying down for a couple of hours, he was able to walk home, a diftance of about a mile. After that he became rapidly worfe, and was feen by Mr. Pemberton, who "found him with laborious breathing, and an intenfe expression of anxiety, referring his fuffering to a load at the epigastrium. The hand placed over the cheft in the cardiac region experienced a purring fenfation, clearly and diffinctly marked. Sounds---thefe were characterifed by loud, continuous, double-rufhing founds audible all over the cardiac region, but more intenfely fo at the bafe of the heart and up the aorta. There was entire absence of superficial venous diftension; hæmorrhage, continuous and arterial, from the hæmorrhoidal veins. The condition of the patient varied only in the occasional abatement of his feelings of oppreflion.

"Treatment .--- Brandy, ether, and counter-irritation.

"He continued much the fame until the morning of the 28th

of June. I vifited him about eleven a.m., and found him gafping for breath. He would fuddenly jump out of bed on to the floor, throwing himfelf at full length, and exclaiming that he was dying. He was truly fo. And having informed his wife that I did not think he could live many hours, I had gone downftairs, when I heard a cry, and returned to his room. I found him lying on the edge of the bed, partly on the floor, with his head downwards, and a copious effusion of blood from the rectum. I at once raifed him on to the pillow, when he gave a feeble gafp or two and expired."

Post mortem, twenty-four hours after death.---We found congestion of both lungs, with serous effusion of no great amount in either pleura. Abundant serous effusion into the abdominal cavity. The liver much enlarged and congested. The kidneys healthy. A few ounces of serum in the pericardium. The heart enlarged, chiefly on the right fide. We also discovered the aneurism; but as the specimen was subsequently examined by Dr. Bracey, I shall employ his description of it.

"The aneurifm fprings from the origin of the aorta, and projects forwards compreffing the right ventricle and the commencement of the pulmonary artery. It would contain, when diftended, a fmall hen's egg. It communicates with the aorta by a round opening, about feven lines in diameter, juft above and between the right and left femilunar valves. It alfo communicates with the pulmonary artery by a vertical flit with regular margin, and fmooth rounded edges, about three lines in extent; this is behind the pofterior division of the pulmonary artery, in the corresponding finus of *Valfalva*. Below this and to the right is another opening, leading into the right ventricle between and below the pofterior and right valves; its margins are ragged and thin, greateft diameter (transfverse) about four lines. There are a few small patches of atheroma in the aorta. Heart large; valves healthy."

I may add, that there was no coagulum in the aneurifm. The edges of the flit in the right ventricle were not only ragged and thin, but alfo ftained with blood, which was not the cafe with the other openings.

As to the fequence of the leftons in this patient, I fuppofe

that the aneurism itself had existed for probably not less than fix months at the time that I first faw him; for that length of time, at all events, he had been suffering from hæmorrhoids, due, it may be presumed, to the pressure of the tumour upon the pulmonary artery. Upon this supposition, we should date the communication with the pulmonary artery from the time that he made the violent effort to escape being run over. I cannot doubt for a moment that the perforation of the right ventricle took place on the morning of the 14th of June.

This cafe is of importance as eftablishing--- at least, I am disposed to think fo--- the rational diagnosis of similar lesions in future.

Granting the correctness of this belief, a great advance has been made in the diagnosis of varicose aneurisms in general, since, as before mentioned, this particular species is by far the most common of the whole class.

At the fame time it must be borne in mind that the key to my opinion was the non-conduction of the fecond murmur to the heart's apex. We should therefore be at a loss in most cases where---

Ift. aortic, or

2nd. pulmonary regurgitation exifted;

3rd. the new communication produced no murmur with the fecond cardiac found;

4th. there also existed an opening into either ventricle;

5th. there was an opening into the left auricle or its appendix. Though we fhould, I think, be faved from error by attention to the phyfical condition of the lungs, as compared with that of the liver, &c.; and, befides, fuch a lefton is of the utmost rarity.

The cafe is both interefting and important, as flowing with how little inconvenience fuch a lefton may exift.

Much ftrefs has always been laid upon thrill as an indication of varicofe aneurifm; and this rightly, when the fite of thrill is local and fo remote from the heart as to preclude the poffibility of a cardiac origin, but not otherwife, fince there feems to be no limit to the amount of thrill producible by fimple valvular lefions. In the prefent cafe the thrill was not employed to prove the exiftence of preternatural communication, though its prefence lent a certain

amount of ftrength to that theory. It was employed, fecondarily, to indicate the exact position of this communication; at the fame time, even in its absence, the fite of the fecond murmur would have given precisely as much information as the thrill itself. Neverthelefs, were fuch a thrill, to our own knowledge, *fuddenly* developed over the heart, it would have almost as great femeiotic value as it undoubtedly has in varicose aneurisms remote from the heart.

In cafes of fufpected varicofe aneurifm it fhould never be forgotten that thrill may be developed in diftant arteries by cardiac difeafe. A ftriking inftance of the importance of remembering this fact came under my notice fome years ago.

A man received a wound in the right fide of the neck, from which there was fo copious an arterial hæmorrhage that the furgeon in attendance believed that the carotid had been opened. Finding on the man's recovery that there was very marked thrill and murmur at the fite of the wound, he came to the conclusion that the vein alfo had been injured, and that a preternatural communication had confequently been eftablished between it and the artery. When I faw the patient there was no doubt about the exiftence of loud murmur and great thrill; but upon placing my finger upon the left carotid for the purpose of comparison, I found there a thrill as diffinct as that upon the right fide. This led to an examination of the cardiac region and to the difcovery of free aortic regurgitation and great hypertrophy of the heart, lefions which quite accounted for the cervical thrill, and foon afterwards proved fatal. Post mortem examination proved that a small artery only had been wounded, and that no arterio-venous communication exifted. The freedom of the hæmorrhage depended no doubt upon the cardiac mifchief; and the hard thrilling radial pulfe, which was really an indication of aortic regurgitation, had been fuppofed to refult from the amount of hæmorrhage and the confequent hæmorrhagic reaction.

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