An analysis of one hundred and thirty-six cases of phthisis / by Arthur Leared.

Contributors

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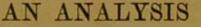
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OF

E HUNDRED AND THIRTY-SIX CASES OF PHTHISIS.

By ARTHUR LEARED, L.R.C.P., M.R.I.A.,

Late Physician to the British Civil Hospital at Smyrna, etc.

From the Medical Times and Gazette, October 11, 1856.]

It following results are derived from 136 cases of phthisis, cerved at the Royal Infirmary for Diseases of the Chest; yy occurred in a total number of 644, chiefly out-patients, mitted under my care (a), a large proportion of these cases and assignable to other diseases of the respiratory organs, eases of the heart, dyspepsia, etc. as well as to a class of ees to be found at all Institutions for diseases of the chest; see in which the Physician is obliged to hesitate in his diasis of phthisis, but in which, if he keeps a register, the dences are sufficient to induce him to enter them as doubt-Whenever, in such instances, I was enabled, as fre-intly happened, from the progress of the disease, to make positive diagnosis, I invariably referred back to the originary, and altered it accordingly (b).

Between May 2nd, 1854, and Feb. 13th, 1855 inclusive.

) Of these doubtful cases there remained 92 in all; it would have exceedingly difficult, if not impossible to ascertain the number of veries, because out-patients too often *discharge* themselves by merely ing their attendance, but a large proportion of them may be ranked cured." Sex and Age.-Table to show the influence of sex and age in Phthisis and the position of Tubercle in relation to both

						2								
	Females.	Left lung.	I	-1	-1	13	10	2	1	1		83		
	Fem	Right lung.	1	2	3	15	10	8	1	1		88	60	, E
	es.	Left Lung.	1	2	5	9	6	. 4	1	2		88		
h.	Males.	Right Lung. Left Lung.	ł	ł	5	10	12	4	1	1		30	63	100
relation to both.		Per cent.	0-73	1.47	1.35	22.79	14-70	49.8	84.0	1	100	1		
rela	in in	Females.	I	2	10	31	20	8	1	0		10	omed	
		Per cent.	1.47	1.47	5.14	14.70	15.44	5.88	2.20	2.20		1	Not mentioned	
		Males.	2	5	7	20	21	8	3		-	99		
		Periods of Life.	From 0 to 5 years.	- 5 to 10 -	- 10 to 20 -	- 20 to 30 -	- 30 to 40 -	- 40 to 50 -	- 50 to 60 -	- 60 to 70 -			No. of Street, or Stre	

In those instances, however, in which recoveries took place, for reasons to be stated hereafter, no change in the entries was made. I am aware that, in some respects, the number of cases

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on that account, there are some points of investigation that account, there are some points of investigation the I have not treated statistically. There are, on the contry, others, I believe, for the first time thus investigated. There has been taken throughout to ensure accuracy.

will be observed that while the total number of females at slightly greater than that of males, there is a great disty in the relative proportion between them at different ods of life. More than a third of the whole that occurred veen 20 and 30 years of age, were females; while of those veen 30 and 40 more than half were males; the relative bers of the latter increasing in each successive period. n this it would appear that the relative liability of the s to phthisis at given ages is much greater for women beand for men after, 30 years of age.

s to the occurrence of tubercle in one or both lungs when, ften happened, both lungs were affected, that which aped to be in the most advanced stage was registered in erence to the other, on the presumption that the disease menced in the former. I may also observe that the regiswas mainly in reference to diagnosis from infra-clavicular ninations. When, however, the apex of one lung is found rculous anteriorly, the superior portion of the other will unfrequently be found similarly affected posteriorly. occurrence of such diagonal cases, if I may call them so, lot, however, materially affect inferences to be drawn from table, which tend to corroborate the observations of others the left lung is somewhat more liable to tubercle than the t. The influence of age and sex in the matter would, from above table, appear to be unimportant.

ditary Transmission.—Table to show the number of Phthisical ns and Daughters in reference to Phthisical Parents or randparents of both Sexes.

	Sons.	Per cent. in 66.	Daugh- ters.	Per cent in 70.
r r and mother nal grandfather nal grandmother nal grandfather nal grandfather nal grandfather		7·57 9·09 1·51 		11.43 17.14 1.43 2.85
naigranumother .	12	-	24	1.43

The transmission of phthisis from father to daughter, by nearly one-third more frequently than by father to son as above, is not in accordance with the Brompton Hospital report, which gives a per centage of 43.5, and 59.4 respectively; while the transmission from mother to daughter in the proportion of nearly 2 to 1, is greater than that given in the same report, which is 56.5 to 40.6, respectively. The proportion of sons born of phthisical parents compared with daughters in the above table, 11 to 20, or nearly 2 to 1 is however closely in accordance with that given in the Brompton Hospital report, deduced from 246 cases, viz., 36.3 per cent. for females, and 18.2 per cent. for males. The investigation of the transmission of phthisis from the grandparents of patients is necessarily more uncertain; but the above is the result of careful inquiries. It is to be observed, that cases in which the parents were not affected with the disease are alone referred to. So far they tend to show that the transmission of phthisis by the maternal grandparents is more frequent in the case of granddaughters, and especially of grandmothers to granddaughters.

Temperament.—This, including notes of the colour of the hair and eyes of the patients, their habit of body in health, and their stature, I made the subject of careful investigation. I find, however, that the observations are too arbitrary to lead to definite results, and I have therefore omitted them. Tallness of stature does not stand out in my observations as a predisposing cause of phthisis, nor does it appear to me that persons of any one temperament are more secure from the disease than those of another.

Occupation.—It appears to me that observations upon the influence of occupation in the production of phthisis are worthless, unless made on the largest scale, and then with proper allowance for local circumstances. It is obvious that in a large city, where two institutions are devoted to the same disease, but separated by some distance, each will be more especially attended by the class of patients resident in its vicinity; and it is notorious that persons of special trades and occupations are, to a great extent, congregated in particular districts. Instead, therefore, of giving the aggregate results under this head, I shall refer, under a succeeding one, to those individual instances in which, according to the belief of the patients themselves, their occupations were the exciting causes of the disease. cial Condition.—Table showing the social condition as regards Marriage, when noted, of the Patients above 15 years of Age in 136 Cases of Phthisis.

	Single.	Married.	Widowed.	Not noted.	Total.
es nales	19 24	34 37	5 2	3 1	61 64
Total	43	71	7	4	125

Contagion.—An accurate investigation of this subject apred to me a desideratum. The table given below shows result :—

From this it is seen that only 3 males and 4 females, total 7 of 136 cases, or 5.14 per cent., afforded any evidence of the on of contagion. Moreover, it is precisely in the 4 cases which contagion might be most forcibly maintained, on ount of the time the disease commenced, that evidence of editary transmission appears. When in addition it is conered that persons living under the same roof are rendered le to the same diseases from the same hygienic causes, the ration of contagion in the phthisis of this country must regarded as altogether unimportant, if, indeed, it exists ll.

levertheless, whether we regard tubercle as the result of pecific blood-disorder, or as a parasitic cell-growth, air red from lungs, in which it exists in the softened condi-, can hardly fail to be impregnated with its particles; such icles, if inhaled by healthy lungs, would find easy access heir proper nidus for propagation, supposing tubercle to parasitic growth. If, on the other hand, we suppose, as ore probable, that, in phthisis, a blood-disorder precedes local manifestation, the morbid product of tuberculous s, even in the form of an exhalation, would, in like manbe easily transmitted through their lungs to the blood of nealthy. The well-known belief in the contagion of phthisis, ughout the south of Europe, holds also in the Levant, as n speak from my own experience. I may here mention circumstances which, happening at the time when the exment of congregating a large number of phthisical patients comparatively new, made a strong impression on my 1.

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Husband dead of Phthisis 2 years.	1	I year.	Lodging-house Keeper.	52	Female	1-
Wife dead of Phthisis 14 year.	Sister dead of Phthisis.	1 ¹ / ₂ year.	Jeweller.	46	Malo	0
First husband dead of Phthisis 6 years.	1	2 years.	Domestic.	33	Female	5
Wife dead of Phthisis 3 years and 3 months.	Mother and three maternal aunts dead of Phthisis.	4 years.	Shopman.	32	Male	4
Husband dead of Phthisis, 2 years; child that slept with her dead of Phthisis, one week.	1	1 <u>4</u> year.	Needlewoman.	32	Female	0
Slept in room with mother during her ill- ness.	Mother dead of Phthisis, 6 weeks.	1 year.	I	6	Female	5
Slept with mother up to time of death.	Mother dead of Phthisis 2 years.	"A long time."	1	4	Male	-
How exposed to Contagion	Hereditary predisposition.	Time from com- mencement of Attack to Admission.	Occupation.	Age.	Sex.	Number.
		معصيف الأميانية والمتعامل معاملتهم المعامل والإيليان فالمعاملين والمعاول				

soon after the establishment of the Hospital for Consumpn in its present locality at Brompton, I became resident in Institution as one of two Physician's Assistants. Of the gentlemen who had been first appointed, one left in bad lth, and in a short time died of phthisis at Madeira. The er soon afterwards died of phthisis, apparently contracted ring his residence in the Hospital. Both gentlemen were ust, and appeared to be free from disease up to the time of ir appointment. After careful inquiry into the matter, it ears, however, that, during an interval of several years, of the many persons not patients resident in the Hospital, h the exception of one elderly female, no other deaths from hisis have occurred. It becomes a question, therefore, ether the proportion of phthisical cases that originated in Brompton Hospital has been greater than the average nber originated in General Hospitals amongst the same nber of a similar class of residents, and in the same period. e circumstances first mentioned, however remarkable, may re been merely coincidences.

Cause alleged by patient.—I have not thought this subject worthy of careful inquiry; and the information derived n it will be seen in the table in the following page.

t thus appears that in more than two-thirds of the whole nber of cases a definite cause was assigned for the disorder. statements were almost invariably made with great posiness, and they are certainly entitled to consideration. enty-nine of the whole number assigning causes attributed onset of the disease to a "cold," or to "repeated colds," cause of neither of the latter, however, being stated, le a particular cold has been itself traced to its source, or nected with something else in 26 other cases, and to the er class I wish to direct more especial attention. We e thus a total of 55 attributing their disease to "cold" or urrh; making, therefore, every allowance for the liability confound with it the earlier stages of phthisis itself, and nitting that a fair proportion of the first-named 29 cases e in reality involved in this error, it seems to me highly bable that the popular notion in this, as in many other ances, is founded upon fact. Whether certain forms of nchitis were complications or not, is little to the purpose. general fact seems to be that, in the predisposed habit, hisis is not uncommonly developed by the operation of ses producing symptoms recognized as "cold." In reing the explanation of the origin of the disease given by ain humoralists of a by-gone age, we have, it appears to gone too far in the opposite direction, since catarrh is by e quite ignored as an exciting cause.

Most of the other causes assigned are such as will readily be accepted as likely to excite the disease—as hooping-cough, scarlatina, measles, and typhus. Gout and rheumatism have been, however, regarded as antagonistic. Contagion was given as the cause in two cases, numbers 3 and 6 in the table on the subject.

Table exhibiting the causes assigned for the disease by 94 Phthisical patients.

Males.Females.Both"A cold" or "colds." Without any cause assigned for to one of the following causes- A wetting or damp feet to ane of the following causes- A wetting or damp feet to ane of the following causes- A wetting or damp feet to ane of the following causes- A damp bed to another the following causes- the damp feet to an of the following causes- the damp feet to another the following causes- the damp feet to another the following causes- the damp feet the damp feet<		1000	the second s	
"A cold" or "colds." Without any cause assigned for 15 14 29 "A cold" connected with or assigned to one of the following causes— A wetting or damp feet 11 4 15 A damp bed 2 - 2 Sitting on grass - 1 1 Ridding outside omnibus in a fog Leaving off clothes. - 1 1 Landry work - 1 1 1 Steam-heated workshop (paper- staining) - 1 1 During menstruation - 1 1 1 Trade or occupation of— Oracase 2 - 2 2 Butcher; overwork 1 - 1 1 Canedresser; exposure to colefter Mill sawyer; nightwork 1 - 1 1 Canedresser; ocsposure to colefter Mill sawyer; "heats and colds" 1 - 1 1 Canedress of constitution 1 3 3 3 3 Contagion 1 1 1 1 1 1		A DELET	A. Starting	
any cause assigned for	Contraction of the second second second	Males.	Females.	Both.
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to one of the following causes— 11 4 15 A damp bed	"A cold" connected with or assigned	10		
A wetting or damp feet 11 4 15 A damp bed			1177 NO.74	A DECK OF A
A damp bed 2 - 2 Sitting outside ormibus in a fog 1 - 1 Riding outside ormibus in a fog - 1 1 Leaving off clothes - - 1 1 Laundry work - - 2 2 Steam-heated workshop (paper- staining) - - 1 1 During menstruation - - 1 1 Trade or occupation of- - - 1 1 Camedresser ; dissipation also in one case 2 - 2 Butcher ; overwork 1 - 1 1 Mill sawyer; nightwork 1 - 1 1 Smith ; hard work 1 - 1 1 Servant ; "heats and colds" - 1 1 2 Coming from the country to live in London 1 3 3 3 Contagion - 1 1 1 1 Derangement of catamenia by fright Marrying too young - 1 1 1 <		11	4	15
Sitting on grass	A damp bed		-	2
Riding outside omnibus in a fog Leaving off clothes. 1 - 1 1 Laundry work . . - 2 2 Steam-heated workshop (paper- staining) . . - 1 1 Juring menstruation . . - 1 1 During menstruation . . - 1 1 Trade or occupation of- Cigar maker; dissipation also in one case . . 1 - 1 Canedresser; exposure to coke fire - 1 1 - 1 Mill sawyer; ingltwork . 1 - 1 1 Servant; "heats and colds" - 1 1 - 1 Servant; "heats and colds" - 1 1 1 1 London . . 1 1 1 1 Servant; "heats and colds" - 1 1 2 2 Unfavourable accouchement . - 2 2 2 Unfavourable accouchement . - 1		_	1	1
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I have said, that no case that I considered in the least ubtful as to diagnosis was registered as phthisis. I shall here er a few remarks on the considerable class of doubtful cases. at there is a stage of phthisis not to be detected by physical ns cannot be doubted; but I believe that physical signs, en when to some extent combined with constitutional symoms, cannot be always relied on in the diagnosis of incipient thisis. In the very combination spoken of there is an elent sometimes productive of error. As this element appears have been overlooked, I shall endeavour to illustrate it. I ve long observed that the results yielded by the spirometer not merely influenced by the actual capacity of the lungs air, but notably also by the state of health and strength of individual experimented on. Not only is the "vital capay" impaired by obstructions in the lungs themselves, but veak man will "blow" less than a strong man, and the ter less when debilitated by any cause than when in the our of health. The respiratory murmur is, in like manner, ected by the same causes, independently of essential changes the lungs. Let us take, then, the case of a patient sufferfrom the debilitating but latent influence of either gout, bhilis, hysteria, or dyspepsia, known to give rise to symms closely resembling, or identical with those of, incipient thisis. Changes in the respiratory murmur result from the ompanying debility, and it is possible that these changes not always occur in both lungs or in the same degree in We know, however, that a difference in the amount of h. piratory murmur between the right and the left lung is en the normal condition, and I have reason to believe that s difference, of itself tending to mislead, is sometimes thus arently augmented.

Even the results of percussion are not to be implicitly relied It is known that, occasionally, from causes not well blained, percussion under the same clavicle, even within ort intervals of time, is found to yield different results. much for the application of the signs often regarded as clusive in the early diagnosis of phthisis. Such are some the sources of fallacy which, besides errors of observation, y have induced the present tendency, to attribute, on so ge a scale, the cure of phthisis to treatment. An investiion of these sources is the more necessary because the dency has been evinced by gentlemen whose statements otherwise above suspicion.

t should be proved, on the most incontrovertible physical dence, that the organic changes effected by phthisis have ly taken place, before we assert that they have been eradied. This incontrovertible proof I do not believe to be always attained, either by sounds differing merely in slight degrees of intensity, or by the results of the spirometer. It need not be regarded as contradictory, however, when I express my belief in the reality of a fair proportion of alleged recoveries from the early stage of phthisis. It may be inferred, \hat{a} fortiori, from the instances of recovery from even the more advanced stages of the disease. Fortunately, the treatment most generally useful in incipient phthisis is that most generally applicable in doubtful cases. With curing them as such, in the present state of knowledge, we should be content.

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