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Medical Institution of Lake Collège,

Vanuary 11-17,

1850.



Pneumonia.

Charles Clifford Holcombe, of West granville, massachusett Candidate for the Degree of Doctor in medicine,



Pneumonia In the consideration of this disease, a knowledge of the morbed anatomy of the parts implicated will be necessay, in order that we may fully understand the shipsical signs, by means of which we can ascer--tain, almost without the and of any other symptoms, the extent situation and progress of this affection. The most reliable symptoms of the nature of this disease, the events to which it tends + the reme. dial treatment required, are pointed out to us by the changes wrought in the pulmonary substance which changes are made Rowers to us by means of auscultation and sercussion - Firstly, then a description of the morbid anatomy of the parts implicated in this diseas seems necessary - Premoria or

inflammation of the parenchym. atoms substance of the lungs, is divided for convenience of descrip. Live into three stages. In the first stage, usually called the stage of engargement, the lung or part of it offected, is partly filled with blood + serum, its colour becomes changed to that of a blush or verms timb externally; internally of a duper colour - when pressed be. tween the finger there is more sistance than natural to-gether with slight crepitation. The cohesin of the lung is also dimmished, from which it is said to resemble the splen, hence, the name splene. - Lation has been applied to this stage of the disease - The inflam mation not being resolved in this stage, the part affected usually becomes soled in the course of six

or seven hours. From this pours is dutid the commencement of the second stage of the disease, called usually, hepatization of the lung, from the striking resemblance which the deep red colour and granular as pearance of the part now bear to the liver- This gran--ular appearance shows telf at the commune of the second stage and continued through the third. These granules vary in size as the air ells in which they are moulded vary. Some are 1/80. Some 1/8 + some 1/4 of a line in diamiter, some wound, some oblong &c accom--dung to the shape & size of air-cells. The hung at this stage will not yeld readily on pressure, and there is no crepitation, the air being excluded from the air-cells by thise granules - Throw a piece

of lung in this stage into water and it sinks readily, being about ten times heavier than healthy lung. The inflammation is now at its highest point, and the next stage, that of gray hipatization is merely a softening of the matter effused in the second stage - The matter called pus in the third stage, has been shown, tog careful examinations to be precisely the same as the gran. . ular matter of the second stage, excepting that the blood effused in the second stage has now been partially deprived of its colouring matter; and the third stage of suppose to be absolutely nicessary for a cure after the lung has passed into the second stage -The the next stage of the disease the lung, which was before dense solid + impervous, undergoes an

alteration of colour & consistency -This change is a gradual one, and is by some called the transition stage. The lung, which before was of a uniform red colour assumes. a mottled appearance. Portions of the lung become of a gray or man . ded colour, while others still retam the characteristic red colour of the second stage - When the colour has become changed to gray or drab it is said to have kassed wito the third stage. From this point the changes are towards a restoration of the part. At this prode of the deres the substance in the cells begins to soften and a small yeartity of air begins to enter into them If you kneed the substance of the lung it will be filled up with a milky bluid, and as before stated, this flind presents the same micro-

-scopical appearance as the substance contained in the cells in the second stage, excepting that the blood has been deprived of its colouring matter & serum has been effused and as I believe, this third stage is absolutely nicessary for a cure after the lung has bassed into the second stage, and this soften. ing is the first step in the cura. time process. Serum is effect suf. - or crent to float these different sub. -stances and they are expectorate This effusion is disposed of in two ways, viz: - by expection + absorption Physical Signs. In the first stage consolidation is not complete and air enters the air cells - By applying the ear or stithoscope to the chist un get an unnatural respiratory murmer- It is a expitant rale so. called - This rate is probably

produced by the bursting of bubbles caused by the bassage of air through celes choked up by effused serum. This rale may be instated by rubbing a lock of ones own have between thumb of funger. This value is best heard at the end of inspirations of mon frequently in the lower bart of the lungs, as this part is said oftener to be the seals. of Prumonia - If the Preminoria is duply seated, we must require the katient to take a full inski-- ration in order to hear the vale Second Stage - At this stage there is complete consolidation of the diseased part & percussion will give perfect dulness over this part. Now there is no respiratory numer or crepitant vale, because air is excluded from aircells- Duscultation will now give you broughol

or tubular respiration. This is the same sound which we hear when air is blown through any other tube - Why do we have this bronchial respiration in second stage? Simply because the lung is a better conductor of sound now than in the healthy state. The efficient cause of sound or rather of bron. -chial respiration is really much liss in disease than in health of lung, occause less are passes through the bronchi- The difference in the two eases is owing to the difference of the conducting media through which sound has to pass - Brunchiel respiration is heard first in expiration, because the surface of the lung is compressed by the muscles of respiration and made a better conductor - When patient is conver--lescing, bronchial respiration crases

first in inskriction for the same reason - Bronchophony. This is a voice sound heard first over the bronchial tubes. This sound can always be heard in the inter-scap. -ular & pace & more distinctly on the right side. After consolidation, it can be heard anywhere in the neighborhood of large broughing Third Stage. This stage cannot be dis. tinguished from second until consolidation begins to break down When this takes place an begins again to enter the deseased part, the lung becomes a pover conduce. -tor and bronchial respiration ciases- sercussion nolonger elects the dull sound and a vanity of rales can be heard over all the diseased region- Seat of Breumonia Ineumorica may affect both lungs or one, i.e. may be double or

single- or it may affect the whole or only a part of a lung or in other words may be zantial or general It is thought to occur more frequent. - by in right lung than lift - but in whichever lung it occurs, it more commonly commences in the lower part & extends thelf upwants. Bronchitis is Raid to be always a concountant of Pneumonia, Plenny to some extent, frequently. Brownscribed absciss & sangune sometimes, though rarely occur as the effects of Pneumonia - Manner of Attack - Pneumonia is generally ushered in by a chill, although sometimes it comes on more slowby as the seguel to some other desease as bronchitis. Chomel says that when there is a well marked chill with signs of inflammation of he is unable to locate A, he assumes that

is Premovia. The fever is inflan -matory with the characteristic sulse When the fever is well marked the blood is said to be more changed in this disease than in any other except theumatism - General Eigno The most unportant symptoms aside from the physical signs. are, pain in one side of the chests dysproca, cough, the seculiar expectoration of fever- The pain is generally in extout proportion to the pleinsy which accompamissit It is most usually felt a little below one of the manimal and is aggravated by pressure, it is most severe at the beginning & ceases before the Premonia does in most cases - systemoia or difficulty of breathing is generally in proportion to the extent and severity of the inflammation,

though not always, nevertheless extreme dyspowea is always as very unformable symptom - The cough of Breumoma ques us no particular information It does not occur in paroxypus, is generally day at first but finally accompanied by the peculiar expec-- toration of Pneumonia - When the sputa is visced semitransparent. and partially arrated, of a yellow or brick dust colour. It is perfectly diagnostic of Pneumonia - This expectoration usually commences on 2 or 3° day of disease and conthroughout its course, grad--wally changing as the inflam. mation is subdued & finally coming to resemble more the expectora--tim of common eatanh - Although this expectoration is perfectly dragnostic when present, still it is many times absent, in which cases we

must be guided by the physical signs taken in connection with the other symptoms - Delimin sometimes occurs in the course of this disease tis an extremely unfavorable symp. - tom . It molecates to us that a large part of the lungs is incapable of performing the requisite changes upon the blood, and that the brain is suffering from its poison. ous effects. Causes of Prumoma lold and the common causes of other inflammations are also causes of this disease. Coming from warm to a colder climate, the natural changes of the seasons, long entire med exertion of the lungs as in blowing a wind instrument or in speaking or reading about are probably among the more. usual causes of this disease. Fewest cases of Pneumoma occur

in September & most in March, in this, showing that it is not in the coldest, but the most variable months that this disease is most frequent. Premorria causes the death of about me in twenty two of those dying in Massachusetts, and about one in cleven in New york City - Age has a strong modifying influence in this disease - I occurs more frequently in children told persons and is more fatal than in those of middle age-Irritation caused by tubercles is a frequent cause of this disease In making out our Prognosis, there-- for all this modifying influe -ences, to-gether with the extent + severity of the inflammation actually present, must be taken into consideration. Suration of Prumma varies from four days to but weeks - average duration of

fatal cases is placed at mure days, of those not fatal four weeks -Treatment of Pneumorna - The remails mainly to be relied upon in the treatment of this disease are, Blood-letting, Antimony and mucuny - of thise the greatest re. hance is usually placed upon blood-letting - It seems to produce its good effects in two ways- firstly, when the system. by taking away a kart of the full upon which this conflagra. tion depends, and seemdly, upon the function of the lung talk leave ing it less cabour to perform, conse-- yuntly in a condition of comparatwo rest, which is favorable to it. The particular rule can be given as to the amount of blood to be taken -The patient must be blid from a large orifier, being in an upright Posture, until syncolor is at hand,

the approach of which will in most cases be endicated by the sense of tightness at the chest being abated, by the dyspower & sain being seleved. and by the pulse becoming softer and more compressible. The bleeding should be repeated after four or five hours of pan & dysprove ate return - When there is much karn, to proad bleeding is a valuable anxillary to general bluding-Blood-letting should be resorted to early - after the inflammatony symptoms have been abatice by its use, we andeam to Rup the system in this state of prostrations by the tartar emetic. The manner of administerry this drug, is to commence with a small dobe at combined with a few drops of Ince opin, to prevent its bassing If by the bowels or causing vormiting-We may commence with \$3 or 1/2 of a gran given once in an hour at first, and

gradually increase this dose as the system becomes tolerant of it, as the expression is - This dose has been menased until patients have taken two grains bur hour for some days to-gether with good expects. When by the use of the Antimory the dysp. now and other signs of inflam. mation have subsided, it may be land aside; but must be again resumed of any of the symptons return. By a judicious & Realonable use of blood-letting + antimony it is probable that most cases of Bren. mona may be cured before the lung has become hepatired -When however the lung has passed into the stage of hepatization, we are taught to place our reliance more upon mercung- and we must gue it, in some of its forms so as to bring the system as spendily as

may be under its effects, which will be indicated by the gums being slightly turned and love. The man. -ner recommended for producing this effect is by giving equal doses at equal intervals. Ray one gran of Calvnel ever hour or two grains every two hours combined with opening anough to prevent its from acting upon the bowels. If however the pulse should become frequent I weak, if the extremities should become cold of the features showher and of the patients stringth appears to be guing way; we ought not to want for the effect of mercury but resort immediately to cordials -idies, blistering is considerably relied upon- This measure will be partie--ularly undicated, after the fever has in a great measure subsided

of there still exists some difficulty of expectionation to gether with some dysprova & oppression about the chest. But in the use of blisters we must be careful that we do not resort to them too soon, while there is yet considerable fiver, as the irritation produced by them in the unnedicte manity of the diseased organ may aggravate ale the symptoms -Purgatives are not someth relied upon in this as in other inflammations, however a cothantie is generally given at the beginning of the disease and a daily movement of the bowels desired afterwards. This I believe is the outline of the klan of treatment usually adopted in kure Brumma as it occurs in orgonous constitutions. Of course the age of the patient and the various complications to which it is hable

will require us to alter this plan of treatment accordingly, that is; the symptoms present in the case we are treating must be our guide for the treatment of that case This view of the matter which I have now presented to you, is, I believe, in substance such as I have learned from able teachers. and standard Mudical Norks, and for which, I cannot claim any originality, excepting in its com-- pilatim and mechanical execution - with this acknowledgement. Inspectfully submit it to your kind consideration C. Clifford Holcombe -





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