The Book of Prognostics Hippocrates by Francis Adams--lappears to me a most excellent thing for the physician to cultivate; for by foreseeing and foretelling, in the presence of the, the present, the past, and the future, and explaining the omissionspatients have been guilty of, he will be the more readily believed be acquainted with the circumstances of the sick; so that men willconfidence to intrust themselves to such a physician. And hemanage the cure best who has foreseen what is to happen frompresent state of matters. For it is impossible to make all thewell; this, indeed, would have been better than to be able towhat is going to happen; but since men die, some even beforethe physician, from the violence of the disease, and someimmediately after calling him, having lived, perhaps, only oneor a little longer, and before the physician could bring his artcounteract the disease; it therefore becomes necessary to knownature of such affections, how far they are above the powers of constitution; and, moreover, if there be anything divine in the, and to learn a foreknowledge of this also. Thus a man willthe more esteemed to be a good physician, for he will be the betterto treat those aright who can be saved, having long anticipated; and by seeing and announcing beforehand those who willand those who will die, he will thus escape censure.--2should observe thus in acute diseases: first, the countenance of patient, if it be like those of persons in health, and more so, like itself, for this is the best of all; whereas the most opposite it is the worst, such as the following; a sharp nose, hollow eyes, temples; the ears cold, contracted, and their lobes turned: the skin about the forehead being rough, distended, and parched; color of the whole face being green, black, livid, or leadcolored.the countenance be such at the commencement of the disease, andthis cannot be accounted for from the other symptoms, inquiry must made whether the patient has long wanted sleep; whether his bowelsbeen very loose; and whether he has suffered from want of food; if any of these causes be confessed to, the danger is to be reckonedfar less; and it becomes obvious, in the course of a day and a, whether or not the appearance of the countenance proceededthese causes. But if none of these be said to exist, if the symptoms not subside in the aforesaid time, it is to be known for certaindeath is at hand. And, also, if the disease be in a more advanced either on the third or fourth day, and the countenance be such, same inquiries as formerly directed are to be made, and the otherare to be noted, those in the whole countenance, those onbody, and those in the eyes; for if they shun the light, or weep, or squint, or if the one be less than the other, orthe white of them be red, livid, or has black veins in it; if therea gum upon the eyes, if they are restless, protruding, or are becomehollow; and if the countenance be squalid and dark, or the colorthe whole face be changed- all these are to be reckoned bad and symptoms. The physician should also observe the appearance of eyes from below the eyelids in sleep; for when a portion of the appears, owing to the eyelids not being closed together, and this is not connected with diarrhea or purgation from medicine, when the patient does not sleep thus from habit, it is to be reckonedunfavorable and very deadly symptom; but if the eyelid be contracted,, or pale, or also the lip, or nose, along with some of the other, one may know for certain that death is close at hand. Ita mortal symptom, also, when the lips are relaxed, pendent, cold, blanched. -3 is well when the patient is found by his physician reclining uponhis right or his left side, having his hands, neck, and legsbent, and the whole body

lying in a relaxed state, for thusmost of persons in health recline, and these are the best of posturesmost resemble those of healthy persons. But to lie upon one's, with the hands, neck, and the legs extended, is far less favorable if the patient incline forward, and sink down to the foot of the, it is a still more dangerous symptom; but if he be found withfeet naked and not sufficiently warm, and the hands, neck, andtossed about in a disorderly manner and naked, it is bad, forindicates aberration of intellect. It is a deadly symptom, also, the patient sleeps constantly with his mouth open, having hisstrongly bent and plaited together, while he lies upon his back; to lie upon one's belly, when not habitual to the patient to sleepwhile in good health, indicates delirium, or pain in the abdominal. And for the patient to wish to sit erect at the acme of ais a bad symptom in all acute diseases, but particularly sopneumonia. To grind the teeth in fevers, when such has not beencustom of the patient from childhood, indicates madness and death, which dangers are to be announced beforehand as likely to happen; if a person in delirium do this it is a very deadly symptom. Andthe patient had an ulcer previously, or if one has occurred incourse of the disease, it is to be observed; for if the man beto die the sore will become livid and dry, or yellow and drydeath. -4the movement of the hands I have these observations to: When in acute fevers, pneumonia, phrenitis, or headache, theare waved before the face, hunting through empty space, as ifbits of straw, picking the nap from the coverlet, or tearingfrom the wall- all such symptoms are bad and deadly.--5, when frequent, indicates pain or inflanunation in the above the diaphragm: a large respiration performed at a greatannounces delirium; but a cold respiration at nose or moutha very fatal symptom. Free respiration is to be looked upon asmuch to the safety of the patient in all acute diseases, as fevers, and those complaints which come to a crisis in forty. --6sweats are the best in all acute diseases which occur on thedays, and completely carry off the fever. Those are favorable,, which taking place over the whole body, show that the man isthe disease better. But those that do not produce this effect to beneficial. The worst are cold sweats, confined to the head,, and neck; these in an acute fever prognosticate death, or inmilder one, a prolongation of the disease; and sweats which occurthe whole body, with the characters of those confined to the, are in like manner bad. Sweats attended with a miliary eruption, taking place about the neck, are bad; sweats in the form of dropsof vapour are good. One ought to know the entire character of, for some are connected with prostration of strength in the, and some with intensity of the inflammation. --7state of the hypochondrium is best when it is free from pain,, and of equal size on the right side and the left. But if inflamed, painful, or distended; or when the right and left sides are of sizes; all these appearances are to be dreaded if there be also pulsation in the hypochondrium, it indicatesor delirium; and the physician should examine the eyessuch persons; for if their pupils be in rapid motion, such personsbe expected to go mad. A swelling in the hypochondrium, that is and painful, is very bad, provided it occupy the whole hypochondrium; if it be on either side, it is less dangerous when on the left. swellings at the commencement of the disease prognosticate speedy; but if the fever has passed twenty days, and the swelling hassubsided, it turns to a suppuration. A discharge of blood

from nose occurs to such in the first period, and proves very useful; inquiry should be made if they have headache or indistinct vision; if there be such, the disease will be determined thither. Theof blood is rather to be expected in those who are youngerthirty-five years. Such swellings as are soft, free from pain, yield to the finger, occasion more protracted crises, and aredangerous than the others. But if the fever continue beyond sixty, without any subsidence of the swelling, it indicates that empyemaabout to take place; and a swelling in any other part of the cavityterminate in like manner. Such, then, as are painful, hard, and, indicate danger of speedy death; but such as are soft, freepain, and yield when pressed with the finger, are more chronicthese. Swellings in the belly less frequently form abscesses those in the hypochondrium; and seldomest of all, those belownavel are converted into suppuration; but you may rather expecthemorrhage from the upper parts. But the suppuration of all protracted about these parts is to be anticipated. The collectionsmatter there are to be thus judged of: such as are determined outwards the best when they are small, when they protrude very much, andto a point; such as are large and broad, and which do not swellto a sharp point, are the worst. Of such as break internally, best are those which have no external communication, but are covered indolent; and when the whole place is free from discoloration.pus is best which is white, homogeneous, smooth, and not at all; the contrary to this is the worst. -8dropsies arising from acute diseases are bad; for they do not the fever, and are very painful and fatal. The most of themfrom the flanks and loins, but some from the liver; in thosederive their origin from the flanks and loins the feet swell, diarrhoeas supervene, which neither remove the pains inflanks and loins, nor soften the belly, but in dropsies which connected with the liver there is a tickling cough, with scarcely perceptible expectoration, and the feet swell; there are no evacuations the bowels, unless such as are hard and forced; and there are about the belly, sometimes on the one side and sometimesthe other, and these increase and diminish by turns. --- 9 is a bad symptom when the head, hands, and feet are cold, whilebelly and sides are hot; but it is a very good symptom when the body is equally hot. The patient ought to be able to turn round, and to be agile when raised up; but if he appear heavy inrest of his body as well as in his hands and feet, it is more; and if, in addition to the weight, his nails and fingerslivid, immediate death may be anticipated; and if the handsfeet be black it is less dangerous than if they be livid, butother symptoms must be attended, to; for if he appear to bearillness well, and if certain of the salutary symptoms appear alongthese there may be hope that the disease will turn to a deposition, that the man may recover; but the blackened parts of the body willoff. When the testicles and members are retracted upwards, theystrong pains and danger of death. -10regard to sleep- as is usual with us in health, the patient shouldduring the day and sleep during the night. If this rule be anywiseit is so far worse: but there will be little harm providedsleep in the morning for the third part of the day; such sleeptakes place after this time is more unfavorable; but the worstall is to get no sleep either night or day; for it follows fromsymptom that the insomnolency is connected with sorrow and pains, that he is about to become delirious. --- 11 excrement is best which is soft and consistent, is passed at thewhich was customary to the patient when in health, in

quantity to the ingests; for when the passages are such, the belly is in a healthy state. But if the discharges be fluid, is favorable that they are not accompanied with a noise, nor are, nor in great quantity; for the man being oppressed by frequentlyup, must be deprived of sleep; and if the evacuations be bothand large, there is danger of his falling into deliquium. But in proportion to the ingesta he should have evacuations or thrice in the day, once at night and more copiously in the, as is customary with a person in health. The faeces shouldthicker when the disease is tending to a crisis; they oughtbe yellowish and not very fetid. It is favorable that round wormspassed with the discharges when the disease is tending to a crisis belly, too, through the whole disease, should be soft and moderately; but excrements that are very watery, or white, or green, very red, or frothy, are all bad. It is also bad when the dischargesmall, and viscid, and white, and greenish, and smooth; but stilldeadly appearances are the black, or fatty, or livid, or verdigris-green, fetid. Such as are of varied characters indicate greater duration the complaint, but are no less dangerous; such as those which resemble, those which are bilious, those resembling leeks, and the; these being sometimes passed together, and sometimes singly is best when wind passes without noise, but it is better that flatulencepass even thus than that it should be retained; and when it pass thus, it indicates either that the man is in pain or in, unless he gives vent to the wind spontaneously. Pains inhypochondria, and swellings, if recent, and not accompanied with, are relieved by borborygmi supervening in the hypochondrium, especially if it pass off with faeces, urine, and wind; but evennot, it will do good by passing along, and it also does gooddescending to the lower part of the belly. —

12urine is best when the sediment is white, smooth, and consistent the whole time, until the disease come to a crisis, for itfreedom from danger, and an illness of short duration; but deficient, and if it be sometimes passed clear, and sometimes with white and smooth sediment, the disease will be more protracted, not so void of danger. But if the urine be reddish, and the sedimentand smooth, the affection, in this case, will be more protracted the former, but still not fatal. But farinaceous sediments inurine are bad, and still worse are the leafy; the white and thinvery bad, but the furfuraceous are still worse than these. Clouds about in the urine are good when white, but bad if black, the urine is yellow and thin, it indicates that the disease is; and if it (the disease) should be protracted, there maybelest the patient should not hold out until the urine be concocted the most deadly of all kinds of urine are the fetid, watery, black, thick; in adult men and women the black is of all kinds of urineworst, but in children, the watery. In those who pass thin andurine for a length of time, if they have otherwise symptomsconvalescence, an abscess may be expected to form in the partsthe diaphragm. And fatty substances floating on the surfaceto be dreaded, for they are indications of melting. And one shouldrespecting the kinds of urine, which have clouds, whethertend upwards or downwards, and upwards or downwards, and thewhich they have and such as fall downwards, with the colors described, are to be reckoned good and commended; but such as areupwards, with the colors as described, are to be held as bad, are to be distrusted. But you must not allow yourself to be deceived such urine be passed while the bladder is diseased; for then ita symptom of the state, not of the general system, but of a particular. -- 13 vomiting is of most

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service which consists of phlegm and biletogether, and neither very thick nor in great

quantity; butvomitings which are more unmixed are worse. But if that whichvomited be of the color of leeks or livid, or black, whatever of colors it be, it is to be reckoned bad; but if the same manall these colors, it is to be reckoned a very fatal symptom of all the vomitings, the livid indicates the danger of death, it be of a fetid smell. But all the smells which are somewhatand fetid, are bad in all vomitings.

-15the pains in these regions do not cease, either with the dischargethe sputa, nor with alvine evacuations, nor from venesection, purgingmedicine, nor a suitable regimen, it is to be held that theyterminate in suppurations. Of empyemata such as are spit up whilesputum is still bilious, are very fatal, whether the bilious portion expectorated separate, or along with the other; but more especiallythe empyema begin to advance after this sputum on the seventh daythe disease. It is to be expected that a person with such an expectoration die on the fourteenth day, unless something favorable supervene. following are favorable symptoms: to support the disease easily, have free respiration, to be free from pain, to have the sputabrought up, the whole body to appear equally warm and soft, have no thirst, the urine, and faeces, sleep, and sweats to befavorable, as described before; when all these symptoms concur, patient certainly will not die; but if some of these be presentsome not, he will not survive longer than the fourteenth day bad symptoms are the opposite of these, namely, to bear the diseasedifficulty, respiration large and dense, the pain not ceasing, sputum scarcely coughed up, strong thirst, to have the body unequallyby the febrile heat, the belly and sides intensely hot, the, hands, and feet cold; the urine, and excrements, the sleep, sweats, all bad, agreeably to the characters described above; such a combination of symptoms accompany the expectoration, the will certainly die before the fourteenth day, and either on theor eleventh. Thus then one may conclude regarding this expectoration, it is very deadly, and that the patient will not survive untilfourteenth day. It is by balancing the concomitant symptoms whetheror bad, that one is to form a prognosis; for thus it will mostprove to be a true one. Most other suppurations burst, somethe twentieth, some on the thirtieth, some on the fortieth, andas late as the sixtieth day.

-16should estimate when the commencement of the suppuration willplace, by calculating from the day on which the patient was firstwith fever, or if he had a rigor, and if he says, that therea weight in the place where he had pain

formerly, for these symptoms in the commencement of suppurations. One then may expect theof the abscesses to take place from these times according the periods formerly stated. But if the empyema be only on either, one should turn him and inquire if he has pain on the other; and if the one side be hotter than the other, and when laid the sound side, one should inquire if he has the feeling of ahanging from above, for if so, the empyema will be upon the side to that on which the weight was felt.

-17may be recognized in all cases by the following symptoms: the first place, the fever does not go off, but is slight duringday, and increases at night, and copious sweats supervene, therea desire to cough, and the patients expectorate nothing worth mentioning, eyes become hollow, the cheeks have red spots on them, the nailsthe hands are bent, the fingers are hot especially their extremities, are swellings in the feet, they have no desire of food, and blisters (phlyctaenae) occur over the body. These symptoms attendempyemata, and may be much trusted to; and such as are ofstanding are indicated by the same, provided they be accompanied those signs which occur at the commencement, and if at the samethe patient has some difficulty of breathing. Whether they willearlier or later may be determined by these symptoms; if therepain at the commencement, and if the dyspnoea, cough, and ptyalismsevere, the rupture may be expected in the course of twenty daysstill earlier; but if the pain be more mild, and all the otherin proportion, you may expect from these the rupture to be; but pain, dyspnoea, and ptyalism, must take place before theof the abscess. Those patients recover most readily whom theleaves the same day that the abscess bursts,- when they recoverappetite speedily, and are freed from the thirst,- when the discharges are small and consistent, the matter white, smooth, in color, and free of phlegm, and if brought up without painstrong coughing. Those die whom the fever does not leave, or whento leave them it returns with an exacerbation; when theythirst, but no desire of food, and there are watery dischargesthe bowels; when the expectoration is green or livid, or pituitous frothy; if all these occur they die, but if certain of these symptoms, and others not, some patients die and some recover, afterlong interval. But from all the symptoms taken together one shoulda judgment, and so in all other cases.

-- 18abscesses form about the ears, after peripneumonic affections, depositions of matter take place in the inferior extremities and in fistula, such persons recover. The following observations are be made upon them: if the fever persist, and the pain do not cease, the expectoration be not normal, and if the alvine discharges bebilious, nor free and unmixed; and if the urine be neithernor have its proper sediment, but if, on the other hand, allother salutary symptoms be present, in such cases abscesses may expected to take place. They form in the inferior parts when there a collection of phlegm about the hypochondria; and in the upperthe continue soft and free of pain, and when dyspnoea havingpresent for a certain time, ceases without any obvious cause.deposits which take place in the legs after severe and dangerous of pneumonia, are salutary, but the best are those which occurring time when the sputa undergo a change; for if the swelling andtake place while the sputa are changing from yellow and becominga purulent character, and are expectorated freely, under thesethe man will recover most favorably and the abscessfree of pain, will soon cease; but if the expectoration isfree, and the urine does not appear to have the proper sediment, is danger lest the limb should be maimed, or that the case otherwisegive trouble. But if the abscesses disappear and go

back, whiledoes not take place, and fever prevails, it is a bad; for there is danger that the man may get into a state of and die. Of persons having empyema after peripneumonic affections, that are advanced in life run the greatest risk of dying; butthe other kinds of empyema younger persons rather die. In casesempyema treated by the cautery or incision, when the matter is, white, and not fetid, the patient recovers; but if of a bloodydirty character, he dies. -19accompanied with fever which occur about the loins and lower, if they attack the diaphragm, and leave the parts below, are fatal. Wherefore one ought to pay attention to the other symptoms, if any unfavorable one supervene, the case is hopeless; but while the disease is determined to the diaphragm, the other symptoms not bad, there is great reason to expect that it will end in empyema. the bladder is hard and painful, it is an extremely bad and mortal, more especially in cases attended with continued fever; forpains proceeding from the bladder alone are to kill the patient; at such a time the bowels are not moved, or the discharges are and forced. But urine of a purulent character, and having a whitesmooth sediment, relieves the patient. But if no amendment takes in the characters of the urine, nor the bladder become soft, the fever is of the continual type, it may be expected that the will die in the first stages of the complaint. This form attacksmore especially, from their seventh to their fifteenth year.--20come to a crisis on the same days as to number on which menand die. For the mildest class of fevers, and those originating the most favorable symptoms, cease on the fourth day or earlier; the most malignant, and those setting in with the most dangerous, prove fatal on the fourth day or earlier. The first classthem as to violence ends thus: the second is protracted to theday, the third to the eleventh, the fourth to the fourteenth, fifth to the seventeenth, and the sixth to the twentieth. Thusperiods from the most acute disease ascend by fours up to twenty none of these can be truly calculated by whole days, for neitheryear nor the months can be numbered by entire days. After thesethe same manner, according to the same progression, the first period of thirty-four days, the second of forty days, and the third ofdays. In the commencement of these it is very difficult to determine which will come to a crisis after a long interval; for these are very similar, but one should pay attention from theday, and observe further at every additional tetrad, and then cannot miss seeing how the disease will terminate. The constitution quartans is agreeable to the same order. Those which will comea crisis in the shortest space of time, are the easiest to be judged; for the differences of them are greatest from the commencement, those who are going to recover breathe freely, and do not suffer, they sleep during the night, and have the other salutary symptoms, those that are to die have difficult respiration, are delirious, with insomnolency, and have other bad symptoms. Matters being, one may conjecture, according to the time, and each additional of the diseases, as they proceed to a crisis. And in women, parturition, the crises proceed agreeably to the same ratio. --21 and continued headaches with fever, if any of the deadly symptomsjoined to them, are very fatal. But if without such symptoms thebe prolonged beyond twenty days, a discharge of blood from theor some abscess in the inferior parts may be anticipated; butthe pain is recent, we may expect in like manner a dischargeblood from the nose, or a suppuration, especially if the pain beabove the temples and forehead; but the hemorrhage is ratherbe looked for in persons younger than thirty

years, and the suppurationmore elderly persons. --22pain of the ear, with continual and strong fever, is to be dreaded; there is danger that the man may become delirious and die. Since, this is a hazardous spot, one ought to pay particular attentionall these symptoms from the commencement. Younger persons die ofdisease on the seventh day, or still earlier, but old personslater; for the fevers and delirium less frequently supervenethem, and on that account the ears previously come to a suppuration, at these periods of life, relapses of the disease coming on generally fatal. Younger persons die before the ear suppurates; only ifmatter run from the ear, there may be hope that a younger personrecover, provided any other favorable symptom be combined.--23of the throat with fever, is a serious affection, and ifother of the symptoms formerly described as being bad, be present, physician ought to announce that his patient is in danger. Those are most dangerous, and most quickly prove fatal, which makeappearance in the fauces, nor in the neck, but occasion very greatand difficulty of breathing; these induce suffocation on theday, or on the second, the third, or the fourth. Such as, inmanner, are attended with pain, are swelled up, and have redness(erythema) in the throat, are indeed very fatal, but more protracted the former, provided the redness be great. Those cases in whichthe throat and the neck are red, are more protracted, and certain recover from them, especially if the neck and breast be affectederythema, and the erysipelas be not determined inwardly. If neithererysipelas disappear on the critical day, nor any abscess form, nor any pus be spit up, and if the patient fancy himself, and be free from pain, death, or a relapse of the erythema isbe apprehended. It is much less hazardous when the swelling andare determined outwardly; but if determined to the lungs, superinduce delirium, and frequently some of these cases terminateempyema. It is very dangerous to cut off or scarify enlarged uvulaethey and red and large, for inflammations and hemorrhages supervene; one should try to reduce such swellings by some other means atseason. When the whole of it is converted into an abscess, which called Uva, or when the extremity of the variety called Columellalarger and round, but the upper part thinner, at this time it willsafe to operate. But it will be better to open the bowels gentlyproceeding to the operation, if time will permit, and the patientnot in danger of being suffocated. -24the fevers cease without any symptoms of resolution occurring, not on the critical days, in such cases a relapse may be anticipated any of the fevers is protracted, although the man exhibits symptoms recovery, and there is no longer pain from any inflammation, norany other visible cause, in such a case a deposit, with swellingpain, may be expected in some one of the joints, and not improbably those below. Such deposits occur more readily and in less timepersons under thirty years of age; and one should immediately suspectformation of such a deposit, if the fever be protracted beyonddays; but to aged persons these less seldom happen, and notthe fever be much longer protracted. Such a deposit may be expected, the fever is of a continual type, and that it will pass intoquartan, if it become intermittent, and its paroxysms come on inirregular manner, and if in this form it approach autumn. As depositsmost readily in persons below thirty years of age, so quartanscommonly occur to persons beyond that age. It is proper to knowdeposits occur most readily in winter, that then they are most, but are less given to return. Whoever, in a fever thatnot of a fatal character, says that he has

pain in his head, and something dark appears to be before his eyes, and that he has at the stomach, will be seized with vomiting of bile; but if also attack him, and the inferior parts of the hypochondrium cold, vomiting is still nearer at hand; and if he eat or drinkat such a season, it will be quickly vomited. In these cases, the pain commences on the first day, they are particularly oppressed the fourth and the fifth; and they are relieved on the seventh, the greater part of them begin to have pain on the third day, are most especially tossed on the fifth, but are relieved on theor eleventh; but in those who begin to have pains on the fifth, and other matters proceed properly with them, the disease comesa crisis on the fourteenth day. But when in such a fever persons with headache, instead of having a dark appearance beforeeyes, have dimness of vision, or flashes of light appear beforeeyes, and instead of pain at the pit of the stomach, they have their hypochondrium a fullness stretching either to the right orside, without either pain or inflammation, a hemorrhage fromnose is to be expected in such a case, rather than a vomiting it is in young persons particularly that the hemorrhage is to expected, for in persons beyond the age of thirty-five, vomitingsrather to be anticipated. Convulsions occur to children if acutebe present, and the belly be they cannot sleep, are agitated, moan, and change color, and become green, livid, or ruddy. Theseoccur most readily to children which are very young uptheir seventh year; older children and adults are not equally liablebe seized with convulsions in fevers, unless some of the strongestworst symptoms precede, such as those which occur in frenzy. Onejudge of children as of others, which will die and which recover, the whole of the symptoms, as they have been specially described.things I say respecting acute diseases, and the affections whichfrom them. -