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## MANUAL

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## Cife Insurance Examinations



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The first edition of the Mamal of Life Insurance Examination: was issued in $185_{7}$, and was apecially prepared for the convenie ce of the Medica! Examiners of the North Ameriall life Assurance Company; hut I cen found of practical value by the Medical Ofiticers of kindred Companies. The Third edition has been revised and largely emended.

November 1st, 1902.

## Life Insurance Examinations.

1.-M1.月HA1. F.XAMINER
flice bersings acral to soriety and inderiduals from l.fe: Insurance are manifest, and much is due to the medi-
 jecture and phacing 11 :1pon the solid foundation uphn which it now rests.
'The suecess of every lafe Insut: e institution de:bends directis upon the duration of tio amongst its insurants proving to be at least equal to that assumed in the calculations of the actuary, Nothing is more ance tain than the duration of any individual life, hut there ai. iw things less suliject to Huctuation than the average dus ...on of human life, when oheervations ate extended over a large number of imfividuals. Without medical selection, the death rate, amongst insured persons would doubntess be greater than amongst the whole prpmatation, as a large number of diseased persons wonld enter; lat hy a selection excluding not only those who are actually diseased, but atl those who are cometitutionally or otherwise predisposed to disease, the death rate is decreased. It is obvious that without trust worthy medical selection, the most careful calculations upon conservative assumptions must prove disappointing in prattice ; hence the examination of applicants for Life Insurance is one of the most important duties undertaken ioy a physician.

High professional attainments are not sufficient in themselves to quahfy a physician to act as an examiner; he
must possess sound judgment, the power of keen observation and the faculty of weighing each and every departure from what is temed health, and above all, he must be a man of striet integrity and honour, and must not be influeneed by favour, fear or affection.

Many medieal men ean diagnose and prognose disease with a degree of certainty, but when called upon to express an opinion as to the "expectation of life" of an applicant for insuranee, are unable to leeide, not having made the subject a special study.

The following pages are intended to call the attention of the Medieal Examiner to the more impostant details which assist in determining whether individual lives will probably survive or fall short of their life expectation.

Appointment.-It is premised that the appointment of the Medical Examiner is exelusively made by the Medical Department at the Head Office of the Company. No agent has any right to promise or make such appointment. The importance of this is evident,-the Examincr must Le free and independent of loeal and other influences, and resporsihle only to the Medieal Department. The importance of the function he performs emphasizes this fact, and the Com. pany relying upon his judgment and honesty, assumes or declines heavy financial obligations.

## II.-THE APPLICATION.

The purpose of the examination is to determine the condition of the applieant's personal health, and whether or not he is constitutionally or otherwise pre-disposed to disease. To this end, when he presents himself for examination, the Medical Examiner should read over and carefully weigh the several answers to the questions put by the agent
on Form A of the application, take note of any peculiarities in the personal or family history, of any general and of in definite statements regardi'g deathe, such as "general debility," "cold," "ruptured hlood vessel,": "slow fever," " chiid birth," "change of life," etc. These terms are found from experience to he very generally assuciated with tuberculosis in some of its various forms; hence the importance of analyzing the answers, and thus leing able $t$. give not only positive, but negative evidence is to hereditary predisposition. For instance, in the case of the answer "child birth," arcertain if the woman was in good health previuss to pregnancy, and during that condition, and also up to the time of confinement. Did she have a difficult latour? How long did she live after, and was there any fever, ete.?

## III.-THE EXAMINER'S REPORT.

Name.-Satisfy yourself that you are examining the person named and described in the application which is before you. The importance of this has been frequently shown, impersonation having been successfully accomplished, and insurance eompanies defrauded. If you have any doubts, conpare the signature of the person whom you are examining with the signature of the applicant for insurance, on the reverse side of the application form.

Residence. -Whether healthy or otherwise? A damp atmosphere with variable temperature is conducive to consumption, rheumatism, ete. Residence in malarious districts gives rise to fevers which may prove injurious to the constitution.

As a rule the inhabitants of the country are eonsidered better risks than thuse of towns or cities. A temperate climate is conducive to longevity. We must not, however,
be too dogmatic as to the influence of climate, as man can, and does, acclimatize himself readily.

Occupation.-Occupation has an important bearing on the duration of human life. Is that of the applicant healthy or injuricus? As a rule, those persons whose business necessitates their being out of doors (unless attended by special dangers) are better risks than those who are compelled to work indoors.

This rule is modified by circumstances ; persons living hahitually in an impure atmosphere are more liable to disease than those who, though following sedentary occupations, have healthy surroundings. The exact nature of the work engaged in should be specified by the Examiner.

Applicants bave been divided into the following classes according to their occupations, viz:

## FIRST CLASS.

(a) Professional men, Teachers, Clergymen, Lawyers and Physicians.
(b) Certain classes of Yechanics and Artisans, as House Painters, Blacksmiths and Carpenters.
(c) Booksellers, Clothiers and Merchants.
(d) Dentiste, Druggists and Apothecaries.
(e) House Decorators, Agricultural Laborers and Gardeners
(f) Clerks, as Bank and Insurance Clerks, etc.
(g) Pinters.

SECOND CLASS.
(a) Certain of those employed by Railway Companies, as Baggage Masters, Conductors on Passenger Trains and Railroad Detectives.

## 9

(b) Certain Artisans and Mechanics, as Builer Makers, Bolt Makers and Bricklayers.
(c) Certain persons who work on boats, as Canal Boatmen.
(d) Men handling Horses, as C'eamsters, Stage Drivers and stable Kcepers.
(e) Certain others, as Prison Guards.

## THIRD CLASS.

(a) Certain men employed on Boats, as Captains of Lake and River or sea Vessels, Engineers and Mates.
(ii) Ccitain Artisans and Mechanics, as T'mber Cutters, Bridge Builders and Stecl Polishers.
(c) Those employed in the Liquor Trade, Bartenders Saloon Keepers and Brewers and Disthlers.

## FOUKTH CLASS (EXTRA HA\%ARDOUS).

(a) Certain employees on Railways, as Yardmen.
(i) Certana Irtisans, as Sawyers and Powder Makers.
(c) Brakemen on Freight Trains and Sailors on open seas.

Applicants in the first and second classes are insurable at ordinary rates, while those in the third class on short endowments. Those in the fourth class are uninsurable on any terms.

As.e.-For convenience sake we may accept the old divisions, viz, age of growth and development, age of ma turity and manhoot, and the period of decay or old age. Each of these divisions is liable to spectial diseases.
(i) The rate of mortality in the first period is much greater than in the subsequent.

With the eariy part of this period we have little to do inasmech as applications are not generally received from persons under 17 years of age.

With the latter pottion of this period, between puberty and twenty-five, the various organs rapidly develof, and individuals are prone to inflammatory and the umatic affections, typhoid fever, etc.
(i) In the second stage - that of manhood-which may be stated to be from twenty-five to forty-five sears of age, the various organs of the body have lecome fully developed, and during this term man is better able to stand the fatigues and exposures of life than at any other time : and therefore the best risks for insurance are generally to be found within these years. The Examiner, however, must be on his guard against exceptional cases between these years where careful attention and improved sanitary surroundings have prolonged the life of those naturally weak.
(c) During the third stage-that of decay, the physical powers show deterioration. Phthisis may develop. Dis. eases of the nervous and sanguineous systems are more common, sueh as apoplexy, paralysis, etc. The liability to accident is also increased.

R'ace.- The mixture of races, in many instances, impairs the vigour of the body. The offspring of the indian and white, as well as that of the negro and white, are particularly prone to tubercular and other constitutional dis. eases, and, as a consequence, their chances of life are re. duced; hence the importance of reporting the race to which the applicant belongs.

Figure.-An erict figure, with due proportionate measurements, is generally indicative of health; : apposite condition often indicates some weakness.

Eyes.-The colour of the eyes is important as a mark of identification, but their appearance often also indicates the sealth of the person examined. A dull, listless cye, especially in the young, points to a slugfish consti, ution.

A red or yellow conjunctiva is frequently caused $i$ y intemperance. The presence of arcus senilis in the second peried of life is frequently associated with degenerative changes in the circulatory sustem. A putfiness of the eyelids may point in desease of the kidncy; a yellow, or stained conjuctiva, to disorder of the liver. These conditions, as well as any organic changes in the eye, should be reported.

Skin.-In health, the skin is soft and pliable and free from cruptions, especially of a specific nature. Nosice should be taken of any peculiarity in colour ; a pale anemec skin denotes an imporcrished condition of the blood. A dark or livid colour points to obstructed circulation, or imperfect aeration, and is frequently caused by intemperance. Any departure from the $1: \cdot \mathrm{l}$ ? standard colour of a healthy skin should excite the suspicion of the Medical Examiner.

Bones. - In persons of a tuberculous diathesis, the ends of the bones are generally disproportionally large. Persuns with small bones are not, as a rule, capable of enduring great exposure or fatigue. Ascertain if the hones afford any evidence of nodes, suggesting rickets, rheumatism, gout, syphilis.

Deformities and Physical Defects.- Defects of the organs of special sense should be inquired into, such as deafness or blindness, and the cause of such conditions should be ascertained. If deafness be present, is it the result of disease? Deformities, such as curvature of the spine (lateral or angulaı), are objectionable; exceptional cases may be considered favourally.

Has the person ever had any of the following ailments?
Aneurism.-Aneurism may exist without the patient's knowledge ; it may be of the heart, the aorta, or any other part of the arterial circulatory system. It may be so large, as to cause bulging of the parietes before its peculiar and dis-
tressing elfects are developed; a cartfu' physical examination would reseal this condition. Its presence is sufficient cause to rejeet an applicant.

Apoplexy.-A person who has had true apoplexy, no matter how remotely, is ineligible for life insurance.

Afpendicitis.-Those who have suffered from appendicitis and where no operation has been performed will not he accepted and must he postponed for three years from the date of the last attack; those who have been operated upon may be accepted one year after operation if free from symptomis.

Arteriosclerosis. - The attention of the Examiner should be expressly directed to the character of the blood vessels whether walls be thickened or not One of the most int. portant diseases in reference to life Insuramee work is the one called Arteriosclerosis, eharacterized by thickened or hardened blood vessels.

Asthmut. - Must be valued according to the cause which produces it. Those cases of asthma arising from idiusy.. crasy, such as rose or hay asthma, or that are dependent upon local atmospherie conditions, are not a sufficient cause to disqualify the applicant from some forms of insur. ance; but the asthma which arises from organic lesion, such as cardiae ubstruction, tuberculosis, emphysema, i)ronehitis, thuracic thmors, hepatie and kidney disease or disease of the nerve centres, is sufficient cause for rejeetion.

Bad, or frequent Head Ache.-May rise from a variety of causes ; when from functional disturbance it may not be a bar to insurance; but when arising from organic lesion, it is a grave sympton, and necessitates a careful examination. The duration and severity of the symptom has an important bearing on the Examiner': decision. Some people suffor from headaches, more or less continually, and
do not seem to be in impaired health ; everythinge ehe heung satisfactory, they may he considered favourably, dsain, beadache, if recent, may lee indicative of some febrile or organic disease: in such a case defer your report and reexamine on some finture occasion.

Cimnchitis.-The presence of bronchitis is always a serous matler, especially if in a chronic form, or of frequent occurrence. Such cases are often dependent upon tubercle, inflammation of the parcnchyma of the long, cardiac or renal diseasce. If the bronchtis be associated with any of the foregoing conditions, the applicant should whesitatingly be rejected. When bronchitis is due to reflex irritation, or other causes which may be amenable to treatment, decision must be postponed for further examination.

Cancer.-The existence of cancer in an applicant is sufficient cause for rejection. There can be hut little coubt of the hereditary mature of this disease and also the tendency to recurrence after operation. Cancer (Carcinoma and Sarcoma) occurs in looth males and female, sarcinoma more especiall; at advanced periods of life.

Catarrh.- The term catarrh as used in this manual means an affection of the mucosa of nose or throat. When it exists in a simple form it is of little importance ; but if it be constitutional or associated with bone destruction, which, as a rule, is owing to syphitis or tubercle, the app!icant must be rejected.

Colic.-Renal and Hepatic. The occurrence of renal or hepatic colic renders the subject a very questionable one fof insurance. The cases of individuals who have a history of a single attack with no rccurrence for a series of years may be taken into consideration.

Consumption. - Deaths from consumption are more common than from any other disease, and therefore a most
careful and seatching examination must be made by the Examiner where it is suspected. He must inquire if there are any predisposing eauses of a hereditary or aequired nature. Deaths from eonsumption, eompared with the general mortality, are decreasing in the earlier periods of life. 'Ihis is protably due to the fact that of late years more regard has been paid to sanitation, and to the improvement in the social condition of the people.

A morning eough with lrarseness, a sense of weakness withot: any partieular assignable cause, loss of weight with a frequent pulse, and especially if there has been hacmoptysis, even of the slightest degrer, are strongly indicative of phthisis, although the physical signs of the diseane may not be well developed.

General appearanees are sometmes deceptive Persons in seemingly good health may have the disease; if it be present a mieroscopical examination of the sputum may reveal the presence of tubercular baeilli. It will be well in suspicious eases to aseertain whether the applicants have ever lived amongst people who were tuleerculotis.

Delirium Tremens.--If the applicant has ever had delirium tremens, the life is much imperilled; its morbid impress is left on the system, and the danger of its reeurrence is considerable. A long interval of time should elapse before sueh an applicant should be received, and there sliould be stiong evidences of moral reform.

Diabetes. - While the pathology of this disease is still undecided, its symptoms are well known. a person suffering from it is ineligible for Iife Insurance. The presence of a slight traee of sugar in the urine may be due to temporary functional eauses. Re examinations, extending over a lengthened period, would be necessary before a satisfactory conclusion could be arrived at.

Diphtheria.-This disease is frequently followed by impaired nutrition and nerve power. It may also lay the foundation for tubercular deposit in the lunge, or may give rise to mephritis, or more or less permanent paralysis.

Dizainess. - It may be functionsl or organic in its origin. Is often indicatave of cerebral trouble. If persistent or re corrent, it is of grave importance, especially in those who have passed the middle period of life.

Dropsy. - The Examiner should direct has attention to the heant, kidneys and liver, and ascertan their condition. If the applicant has had dreesy, it may have only heen temporary, such as the dropsy resulting from antemin, scaratina, or other aymotic diseases: in such cases, the applicant may be received provided no organic lesion have been left. Hropsy arising from erganic lesion precludes the person from the benefits of life insurance.

Eruptions or 'Kin Diseases.-The physician must distinguish between those ertuptions which aise from epecific discase or other constitutional catuse, and those which are purely local in orgin and innocuous in their nature. The former may render the applicant incligible for insurance.

Erysipeliss.--This is oftentimes a grave disease, and in some individuals will recur from very slight causes, damages either visible or invisible.

Fïstulue. - Fïstulie occur in different parts of the body, and from various causes: for instance, by a gun shot wound whell foreign bodies such as metal, cloth or detached bone are left in the wound. These and similar cases are usually remediable, and if the applicant has fully recovered, and the result of the examination is in every other way favourable, he may be aceepted. The term fistula in Lafe Insurance Medical Examiner's reports, refers isually to fistula-inano. This may be either constitutional, or local in origin; the
constitutional variety is usually found in phthisical persons or those who suffer from disease of the liver-such ajplieants must he rejected. It the fistuha, however, is due to local causes, sueh as the presence of haemorrhoids, cte., and if the person has recovered, he may be luoked upon with favour.

Fits.-This is a genteral term including a freat wartety of eonditions, such as apoplectic, epileptic and hysterical. When arising from apoplexy, rejeet. Epilepsy, fer se, dues not shorten life, but in consequence of the danger of accident to persons suffering from this disease, and the tendency of epileptics to become insane, the value of the life is lessened. Sometinues epileptiform fits arise from causes amenable to treatment, such as those having for their origin eecentrie irritations, e.is, uterine, intestinal or vesical. If sueh a condition be fully recovered from and some lime has clapsed since the last fit, the applicant may be received, but if the fits arise from eentric causes, sueh as pressure resulting from depressed bonc, intracranial tumnurs, mal-nutrition of the nerve centres, emboli, etc., we must reject. Epileptiform paroxysms frequently oceur in drunkards and may not recur when the applicant's habits are reformed. Hysterical fits are common in females and somctimes occur in males. The experienced physican will have litte diffieulty in distinguishing between true epilepsy and the hysterical fit, the latter leeing due ustally to emotional eauses, and most common in young persons. Such eases are insurable.

General Debility.-Often arises from organic lesions; careful examination is therefore neeessary to determine the cause and prognosis.

Gravel.-This term is applied to the condition in whieh

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Calcuh, ther vesical or reanal ia ory gitn, are passed from the urimary bladder. It may or may not be accompanied by renal colic and alvags indirates a senious condition of the orgins it fautt.

G'at--Ihis discease is ffen horeditury. The cianger attending gout is chiefly owing to the degemerative conditions of the heart and hornd vessels usually to be found in the hon divant. Applicants who suffer from gout are one first ilass lives.

Muchitual Cough. - The history of habitual cough is strongly indicative of disease of the respiratory tract, and the Examiner should exercise his utmost care in ascertaining the cause. Caces of this character are general'y unin. surable.
 tion is suggested in consequence of the serious motbid changes which are ajt to be developed by this disease, viz : Chrontic consolidation of lung subatance wi:h the development of tubercle. If any serious conseguences arising from this disease are manifest, the applicant should be rejected.

Insantit.-If the person examined has ever been insane, the physician will ascertain if the disease be locreditary or due to some temporary cause, the form and kind of ins.a ity, the age of the individunl, its duration, whether the person has had more than one attack, the nature of the real or supposed exciting cause, and whether symptoms of the disease are now present. We must not confound mere eccentricity of manner or character, with true insanity. In. sarity may be temporary in character, arising from causes which are amenathle to tratment or which disappear spontaneously, e.g., the abuse of alcoholic liquors or acute spe-








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 position is, that the more pure and uncomplicated the re surbitation, the freer the heart from any , sher disease, the: mane likely is the individual we bute oft without a mos.
ment's waming ; further, that there is no direct comection between the amount of danger of disease at an orifice of the heart and the intensity of the existing murmur. The very weakness of a murmur may indeed be a fatal sign. According to Dr. Beghie, of Edinturgh, the death from heart disease comprise five per cent, of the deaths in aublt life. The most common cause of heart disease in this country is rheumatism. Invarially an applicant suffering from heart disease must lee rejected.

Paralysis,-Paralysis of either motion or sensation, whether it be paraplegia or local, calls for a most eareful enquiry. We must always endeavour to ascertain the cause. If concurrent with diseases of the eirculatory system the applicant must be rejected: also if the condition be due to diseased nutrition, degenerative ehanges, tumors or traumatie lesion of nerve centres. Some forms of paralysis are curable, and may be entirely reenvered from, especially those of a local character, as the paralysis resulting from the division of a nerve, the presence of a foreign substance, as of a bullet or piece of cloth, and that form of paralysis o! one side of the face caused by cold. If a considerable interval of time has clapsed since the person was affected, and if he has now fully recovered, he may be accepted. There may also be a paralysis which is usually temporary, as sequela to sach cymotie diseases as typhoid fever, diphtheria, etc.

Piles.-Piles are uften associated with liver disease in consequence of the communication between the veins of the rectum and the portal circulation. They are also caused by a debilitated condition of the system ; they are painful, and sometimes give rise to a hemorthage wich may cidanger life, In those cases where the piles are associated
with disease of the liver, or if there has been much hatemorrhage, we must reject the applicant. likes may arise from constipation, etc., or in fomales from the presence of a gravid uterus. These cases may sometimes be received.

Pleurisy. - This disease is in a maj rity of cases due to tuberollosis and recurring attacks should make one suspicious of the origin. Even after non-tubercular pleurisy if effusion be persistent or adhesions such as to limit lung expansion the casc is non-insurable.

Rhermatism. - The term Rheumatism is used in a very vague way by the laity and often by the profession. Acute Infl.mmatory Rhcumatism, Muscular Kheumatism, Chronic Rheumatism, Rheumatic Gout and Conorroneal Arthritis, a form of septic infection, are all commonly ine' ded under the term.

The Heart lesions so ofteln accompanying Acute Rheumatism should be looked for and a careful examination of the urine is of importance in all cases admitting having suffered from Kheumatiom in any furn.

Scarlatinat.-This is a disease of goulh rather than adult life and is of importance to the Examiner for Life Insurance hecause it is frequently followed by scriuus lesions which may terminate fatally after the lapse of a long period. Chronic otorrhoea often recults frons an attack of scarlatina, and the inflemmatory process may extend to the mastoid cells and even to the brain and its membrancs. We may have uremia, alluminuria and dropsy as a result o? diseased kidness. If a?y of the foressing conditions are present, they disqualify the applicant for insurance.

Shorthess of Breath.-My he iadicative of tinoracic direase, anmmia, or purely functional distubance: it is sometimes due to montal emotion or physical exertion.

The gravity and permatnence of the excitu-anter cause must b: sought for and weighed accordingty.

Smallana:-The discovery of vaccination by the immortal Jemer towards the cluse of the eighteenth century has diverted this disease of much of the importance which it had previously, when it ranked first among the acute affections destructive of human life. The ignorant frejudice and obstinacy of man is well Hustated by the refusal of many in arail themelves of the preventative.

The proofs of its effictency are averwheming. It appears from the report of the Regitter (iems ral of England, tha: of 100,000 persons whe have been vaccinated, 100 may expect in any yar to liave tie disease, and 10 of these to dic.

It is calculated that in 100,000 persons not vaccinated, if 600 are attacked by the disease, that 270 of the number will die, the promaoility being 26 to I in favor of those vaccinated. In fersons having one or more clear marks the mortality was but + in the hundred of those attacked. With bad or indifferent marks the murtality was 25 in 100 , and in patients without marks (presumably not vaccimated) the deaths were 48 in roo of those attacked.

Spina! Disease.-Where there is evidence of organic disease of the spine the applicant must be rejected, but the Examine; must take great care to distinguish the functional from the organic; the former is common in females and anaemic individuals. The early symptoms of locomotor ataxia shonld be carefuily looked for, as they are sometimes very insidions; if there is any want of proper co-ordination accompanying vague so called theumatic pains, the case must be rejected.

Spitting or Vomiting Bloot.-This is an inportant
question and requires core and time on the part of the Dedical Examiner to disecter the cause.

In a great majority of cases it comes from the lungs and is caused by tubercuiosis, cither in its hatent or active form : or it may arise from mitral regurgitation ; in either case reject If it comes from discased lone of the nose on matignant disease of the stomach, reject. If it can be thorough'y established that it has come from the nose (not diseasew ione), throat or gums, or in females from vicarious cause, or even in some cases, of ulcer of the stomach, the application may be considered. Oten cicatrized ulcers have been found in the stomach of those who have died of some other affection and the presence of the ulcer was only revealed by post mortem. Moreover, persons suffering from purpura haemorrhagica and typhoid fever often tose large quantities of blood by the mouth and nose, and make good recoveries; these forms should not be a bar to insurance. In a case where there has been haemorrhage from the lungs and seven years have clapsed sinee the last attack, i's ap plicant being now perfectly healthy, may not be disqualified for insurance, especially for a short term endowment.

Stricture of C'rethra is always the result of inflammatory action and most commonly from the occurrence of gonorrhoea. It may give rise to disease spreading backwards through bladder and ureters to the kidneys. If there be evidence of such extension having occurred the appiicant must le rejected.

Sunstroke.-Sunstroke is not uneommon in hot climates and in hot seasons. Sumetimes little or no effects follow it and the patient makes a complete recovery. The brain power may be diminished and organic disease orcur ; perhap; epilepsy or paralysis may ensue, thereforn ascertain
how long a time has elapsed sinee it warced, and whether or not the applicant is suffering any ill effeets from tie sumstroke, and decide accordingly

Syphilis.-Sir Wm. Jenner and Sir James Paget, with many other eminent surgeons, consider this disease to be a very common cause of death. When it is present in any form the decision should lie postpmed ; we must not, however, conclude too hastily lyy some people every sore on the genitais is called syphilis. This is far from leing the ease ; the true chancre is characteristic and it or:'y is followed hy eonstitutional symptoms. The physician must look carefully for traces of eruptions on the skin, whether there is any emaciation or evidesce of depraved nutrition, enlarged cervical glands, white paches, or cicatrices on the mucous membrane of the mouth, tongue or throat, nodes, induration of lymphatic glands, onjchia, etc. Such persons should not he received until all evidence of the disease have disappeared.

Typlus and Typhoid Fever.-Typhus fever is a very virulent disease with a large mortality, and like other acute fevers is apt to leave serious consequences which tend to weaken the eonstiution. Fortunately, however fur us, it has not made its appearance in this country for upwards of fifty years. Typhoid or enteric fever is common throughout the world. Persons suffering from this disease are not likely to apply for life insurance. In those who have had it particular attention should be directed to the glandular and nervous systems of the hody. The recurrence of diarihoca in a person who has had typhoid fever would point to some weakness in the glandular structures of the intestines.

Lass of power or para!ysis, caused by embolism, fre
quenty follows this disease, and if present would render the applicant uninsurable.

If there he a tul:ercular diathesis, however slight, in a person who has suffered from typhoid, it is not uncommon for the latent tuberele to lie develned as a result of this dis:nse.
liaricose leins. - May appear in the robast and in the weak, in those who live well and those who co not, in the foung and in the old, and although it may interfere with the eomfort of the person do not necessarily shorten life. Varicose veins maj appear in any part of the venous system, but are most likely to occur in the veins of the legs or serotum. The Examiner must bear in mind that they are liable to become inflamed, or thrombosis may take place, or they may uleerate or may rupture. They are common in fregnant femal:s, but after labour usually subside. Unless the varicose veins are unusually large, the applicant need not lee rejeeted.

I: the person sulject to dyspepsia, conitifation, dysentery or diarmata?

Dyspepsia - Hy this term the laity mean not only dyspepsia properly so-ealled hut any form of stomaeh trouble. It is well therefore, in all casis when its fresence is atumitted by an applieant, to make rigid examination in order to determine whether any organic disea a, e.,, of the digestive tract, kidneyc or nervous system, the the eause of the symptoms

Constifation. - The demands of nature allow a wide latitude in reference to the evacuation of the bowels in individuals, and what would be considered alarming in one purson may be quite normal in abotion for instance: stme persons are never romforiable without one or more evacua-
tions in the 24 hours; others do not have their bowels relieved more than once a week, and this may lee natural in b sh cases : the latter is common in anemic females or in persons who have an atonic condition of the muscular fibres of the intestine. These and similar cases ar usually insurable, but when it arises from mechanical olstruction, such as from stricture, morhd growths, whether malignant or non-malignant, or if the condition be due to certain diseases of the brain or spinal cord, reject.

Diarriued. - Is a symptom of irritation of the digestive tract. This may be due to temporary causes connected wi:h errors of dict, to neurosis or to organic changes in the tract itself Amongst the latter of special importance are the ulccrations caused by tuberculosis and new growths. It is, of course, absolutely necess.ry to ascertain what the cause may be in any given case.

Stimulants and Narcotucs.-Describe fully the person's practice in regard to the personal use of stimulants and narcotics. We need hardly expect an applicant who uses stimulants to excess to admit the fact on being questioned ; we must look for the signs of habitual over indulgence. Thosc people who have occasional sprees at long intervals of time are not so apt to show the injurious impress on the constitution as those who habitually uie an excessive quantity of alcoholic drink. In the latter cases the general appearance will be a good guide to the Examiner, the complexion, the condition of the cyc, tremor of the muscles of the hands, etc., all may assist in determining the habits of the applicant. Some authors have fixed a standard whereby to judge what is an excessive quantity of alcohol for an adult. The effects on the constitution are what the Medical Examiner must investigate. The use of narcotics, which is

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another form of intemperance and which in some cases is even more intractable than the use of alcohol, is detri mental to longevity.

The narcotics which are likely to be hahtually used arc opium, chloral hydrate, camabis indica, tolnaco, ther, chinufurm, and coraine.

What has heen the habit in this respeet throush life?
If a man has reached the age of to without forming the hahit of over-indulgence he is unlikely to açuire it, hu: his orcupation, smoroundirys, etc., mut bee considered. If a man be now a cotal abstainer, we must remember he may be a reformed drunkiard, and in danger of a relapise to his furmer condition.

Is there anythin, disproportionate in the wecight, stature or girth measurements?

Weight - In considering thi question, the general development of the hody mus: be taken into account. Excessive weight, particularly in early life, not being hereditary; is indicative of faulty uutrition, and is often caused by intemperance or want of exercise.

Stature.-As a rule tall men are capable of less cm durance than those of average height, vi\%., 5 ft .8 in ., and are more prone to pulmonary and cardiac diseases, and are more liable to have hernia or varicose veins. Short men are apt to be disiroportionally developed, and their physical endurance is small. As a limit of over and under-weight the following table will be a guide to the Examiner. Twenty-five per cent. under weight is the loss of one-fourth of the man, and calls fur the most searching investigation on the part of the Examiner. Light weight cases may be the resuit of ehronic dyspepsia, darrhoea or dysentery, marasmus, scrofula, haemorrhoids (bleeding), hypertrophy
of the heart with excessive impulse, albuminuria, liright's disease, etc. In addition to these, in the case of femates, some chronic uterine disease may be suipected. The ex ceptions are few in which it is safe to disregard these limits, and in every case of underweight, tests for Iiright's and other diseases are imperatively required.


Ifeight.

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 86 | 92 | 115 | 144 |  |  |
| 90 | 96 | 120 | 150 | 108 |  |
| 94 | 100 | 125 | 156 | 175 | $35^{1}$, in. |
| 97 | 104 | 130 | 163 | 132 | 35) in. |
| 101 | 103 | 135 | 169 | I Sr, | 3¢! |
| 105 | 112 | 1.40 | 175 | 196 | 37 in. |
| 107 | 114 | 14.3 | 178 | 200 | $37^{5}-\mathrm{in}$. |
| 109 | 116 | 145 | 181 | 203 | 3 S in. |
| 111 | 119 | 148 | 185 | 208 | $381=$ in. |
| 116 | 124 | 155 | 194 | 217 | 39 in. |
| 120 | 128 | 150 | 200 | 224 | 30 $3^{1}$ - 11. |
| 124 | 132 | 165 | 206 | 231 | $40 \%$ in. |
| 127 | 136 | 170 | 212 | 238 | 41 in. |
| 131 | 140 | 175 | 219 | 245 | $41!$ in. |
| 135 | 144 | 1So | 225 | 252 | $42: \mathrm{in}$. |

The Respiratory system. - The imp rtance of a ihorough examination of the respinatory organs camot be too forcibly impressed on the mind of the Exarniner. In Engiand, according to the latest authurities, one in six of the deaths
occurring in the adult population is from disease of the re spiratory tract. IVe must ascertain by inspection, percussion, and auscuitation, wheiber the respiratory murmur and resomance are clear and distioct and mormal ia characier over all pats of looih lungs.

In general terms, in health, the act of respiration (including irspiration and expiration), should be quiet, easy and regular in the ration of one to four or five of the pulse, and not exeeeding twenty per minute. Ihais may, however, be temporarily intlucnced by mental causes or physical exercise.

Drawinir a fu!] ! reath and hoding it for a feav seconds should cause no di-tress or pain.

In aduit should be able to count aloud rather sl birly from twen'y to thiriy without drawing a fresh breath.

In the adult tle chest shonld expand in ail directions and the muscles of the neck and arms (anxiliary muscles) should bis iate any active or visible part inthe art.

The respiratory murmur should legentle, l.ke a slight brecze among the trees, not harsh or noisy.

Prolonged expiration frequently points to lung disease.
Irregular, intermitent or jerking respiration points to derangemont of the nerve centres. If the respiratory act varies from the normal standard in frepuency, a subsequent examination should be made before reportins on the case.

If the blood be well aerated the lips, ears and tips of the finders should not have any livid or purple tint.

Measurenent. - The measurements required are taken over the bare skin, and are the following.

Chest measurement during full inspiration and fall expiration.

Girth of waist.

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The difference between full itspisation and full expiration is, as a rule, $21 /$ inches, white the difference l.e. tween chest and girth is abont three inches.

Circulatory System.-Is the character of the heare's action uniform, free and steady?

In health the heart's action should be uniforn, free and steady, its sounds clear and distinct and rhythm regular and nommal. On inspection the impulse of the heat will be visible about one and half inches within and the same distance below the left nipple, in the fifth in:crcostal space : it shoukd be planly percepuible when the person is an an erert posture, and should not appear jerking or widely diffused.

The rhython of the nomal heart is regular we must not, however, too hastily conclude when departure does take place that it is necessarily due to disense. Scmetimes such a condition is due to idiosyncrasy or a temporary disturbance of the nerve centres; it may also be due 10 anamia. In such cases postpone decision until thoroughly satisfied as to the cause of such departure.

The proper time for taking the pulse is when the patient is least excited, mamely, when going into fami'y history and during the early part of the examination. After taking chest measurements the pulse is influenced in the one instance through nervousness and in the second from exertion.

The frequency of the pulse varies during the different periods of life and also in different climates.

In the adult its rate in temperate climates is from seventy to eighty per minute, the pulse of females being slightly more frequent.

The pulse should not inicrmit or become irregular when the applicant is in a passive condition. In the north.
west part of this continent the pulse rate is inctrased by about ten beats per minute, while in the llent India Islands it is reduced iny aloont the same number.
some people, without anj comdent cause and perfectly free from disease, have an intermittent pulse; others have an abnomally show or fast one from idiosyncrasy. If the pulse rate be above eightyeight or below fifty-foisr, reexamine on another day.

Temperafure.- Aiter cxamination of the chest ake centerature and note if there be any d-parture from the normal standitrd.

Crinc.- An examination of the unine is required in all cases. Note quantity, eolour, deposic if any, specific gravity, re-action, presence or absence of all umen or sugar, etc. 'the normal fuantity of urine voided during the twenty-fur hours in a temberate climate is between fifty and sixty ounces for the mate and forty and fifty for the female. A specimen for examination to le of the greatest value should be taken from 24 hours secretion.
'The colour of hatily unine varies from light straw to dark amler. 'the specitic gravity of normal tirine at the temperature of an ordinary room, about $70^{\circ} \mathrm{F}$., runs from 10. 10 to 10.25 . If of a low specific gravity your attention is specially directed to the detection of albunien : if of high, it may indicate the presence of sugar.

Re action.- Urine in its normal state is generally acid, but is suliject to variation, more especially after meats.

Test for Re-action.-If the urine be acid, Hlue litmus paper is turned red and if alkaline red htmus is turned bilue.

Detection of Albumen. - Urine containing albumen is generally uf low specific gravity and light amber in colour.

Chemical Tests.-(I) Heat and nitric acid. If the
utine be not clear filler. Fill te"t tul, three-fuaters full with the clear urine and bet the upper portion: if a lurbidty results it is due either to the preseloce of a! bumen or earthy phocphates. Idd a fex drop; of nitue aciol, and again boil. If the turbidity diampears then it is owing to the presence of earthy phomphases if it remainsor 'seeomes intensified then alhumen is present. An excess of meric acid will dissoive allbumen.
(2) ('okd nitric acid (Ileller's tesit). L'our into a test tule about one inch of nitric acid, drop down the vile of the inclined tulse a small quantioy of clear urine If a!bumen be present then a harp white sone $a_{i} p$ pears at the contact point. This is a confirmatory test.
(3) P'urdy's T'ent. - This is a simple and accurate test. To one third of a test tubs of urime add one six'lo as much of a saturated solution of C. P. Sodium Chboride in distilled water; then add 5 to 10 dropgs of 50 aretic acitl, shake, beil the upper part of the duid: a white clous mdicates albumen and it only.

Detection of Sugar.--L゙-ine eontaining sugar is generally of high speeific gravity. . Is a rale when the butle containing the urine is briskly shaken a froth appears on the surface and last; for some litale time. Frequently a perestiar odour is apparent, similar to chloroform.

Fehling's Test. - The test for sugar should be secondary to that for :lbumen, for if albmen be present it must be eliminated. To do so, boul the urine, filter and proceed with Fehling's test. 'T'o the l'ehling's solution diluted with about four times its bulk of distilled water after builing, add the suspected uine drop by drop. If sugar be present a yellow or yellowish brown disculoration or precipitate appears. If the uiscolomion or the preciphitale be shight adid




 mended. It hetprimletinitely fiomon'a: ('riper Sulph. gr

 drachm in a test tuhe : lent; ade drop ly derp not more than to (ropis of urime. 'Iher reaction of "hear if present will be as abowe.

Veremes System.-Whis of ail sybtems is most influenced by a variey of sanses. 'llae gue stion wege sts itatif, is there any depature from the nomal coselitif.n of the nervous system, and if so, is it due to organic disease or functional derangement? If to the former, it in ay relider the apllicant ine llis ible for insurance.

Digestiac' Orions. - The nathicon of thr bua; dejends on a heathy condition of the digestive organs, w the w: which wholesome assimilation will not take place.

Genito Urinary Orians - Fi quiny shouid he made as to any evidence of present or past dicence of these organs, e.g. gonorrbera.

Lenemotory Orsans. - The comme tion beeween the diseases of nervous and the locomonory system is vety close, and reference has already lieen made to the more fremesent ones.

Cutameous. System.-Its ahmormal condidon often peinis to constitutomal disease, hence the inportance of careful observation when examming the applicant.

Orisuns of Sense.-Disease of the organs of special sense is sometimes fraught with danger, as in the case o:
suppurative diseases of the ear, which though not urgent at the time of examination, still may at some future date prove fatal. The loss of sight, although it may not shorten "life," stili lessons the "expectation of life," by exposing the afflicted one to greater dangers of accident than he otherwise would have.

Do you find any tendency past or present so ccugh expectoration, difficulty of breathing, of palpitation? Or predisposition, hereditary or acquired, to any particular disease?

This question is intended to direct the Exammet's attention particularly to the condition of the thoracic viscera, and to ascertain, if possible, whether, there is or has heen any departure from the healthy condition, and if so, is it due to hereditary or acquired causes.

Do you find that there have heen cases of consumption or other hereditary disease among the farents, brothers, sisters, or other blood relations of the applicant?

At the present day the hereditary nature of some diseases is unquestioned, and of all the diseases which exercise an hereditary lnfluence, consumption is the most prominent.

The proportion of hereditary and acquired cases vaty at the different ages of life. According to authorities those cases which occur before the age of thirty-five are usually hereditary : after that period they are more frequently acquired.

The term hereditary disease in this book is used in the popular sense and refers to the history of occurrence of cases of the diseases spoken of amongst the members of the applicant's family.

That a tendency to consumption is capable of being

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transmitted from parent io offs! ing, we presume is admit ted.

The offspring of cons' rative paren's may or may not be attacked by the disease--it may mis: one generation and attack the next; thus we fiad phthisical parents bearing apparently healthy children, or the children of such parents who seem themselves to he healhy having phthisical off spring.

In suspected cases individual modifying circumstances must be carefuily examined and weighed.

The age, personal health, configuration, habits, residence and occupation of the person examined, and the health and longevity of relations gencrally, must ie con sidered before deciding on a case: also ascertain if more than one relative has died of the discase and the derree of the propinquity, the age $o^{-}$ages at which death occurred. the number of deaths and the ages and state of heaith of the members of the family now alive.

Drs. Begbie and Christison state:-When (wn members of a family have died of consumption the risk must be declined. This rule is not, however, always acted upon.

These are the general rules for applicants on the whole life plans, but some of the following cases may be taken on endowment plan for a suitable term of years, when the personal history of the applicant is good.

In the foilowing cases reject :

1. Whin three cases have occurred in a family,
2. When the applicant is under twenty-one years of age and one case has occurred.
3. When under thitty and a parent has died of the disease.

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4. When moler therty live athe two memtore have shown the disease.
5. When under forty and both parents hase died of the disease.

The commumicability of consumption is bevord donht.
Among the other hereditary eliseazes we may mentom insanity, gout, cancer and epilepsis.

Has the afplicant ezer had any serinus illocssor injuld
The fixaminer will bere inspure carefully : stane ittmesses, such as malatial fever, typhod, difhoherin. wte, are frespently followed liy oresanic lessons.

As to Xijuries. - Injury to the head or spiatal cort may, after the lapse of months or gears, give rise to fatal results. As an instance, a man may receive injury to the brath or spinal cord, and athough he recover frem the immediate effect, it may be followed by utterior comsepuences which may terminate unfavourably.
W. men.-If the applicant be a woman, state muntber of children, if now or when last pregnant, whether there have heen any miscarringes or difficult labonrs, are the uterine functions now regular, has she ever suffered from uterine or menstrual discase or disorder?

Nost companies do not insutre a pregnant woman, nor a maried woman until she has had ont child, untess she is over forty yenrs of age; nor an ummarried woman. except on shot endowments.

W'th the whole population the duration of life amongst females exceeds that amonght males; but in the experience of life insurance companies the reverse is true. If this curious fact is to be explaned on the assumption that medical examimations of females are not usually so thorough
and diangembors as hat of males, it is a mefletion upentour profession whe wo hope the follot wilf remose
 render their lives someshat hatholobs, such as menstrmal
 ebe. A woman who has once horne a child withont any comsiderable defif:ulty, is a math letter tiok than a primi para, and married women are better risks than those who ar sinerte. I'revious labours should be: remefully impuired int.

## Is the ferson mptured!

Kuphure is much more common than is fenerally stupposed and is met with more frequently in the mat: than in the female, the proportion being 5 ln 1 .

According to Malgagne one man in every thirteen in France is ruptured.

The word Hernia in insurance papers refers especially to the "arions forms of atolominal hernia; the dangers athendins this condition are well known, but at the same time it is a remarkable fact that the mortality due to hernia is only four per cent. of those so affented. Hence, if a properly adjusted truss he worm, the risk may be received, and in most policies a clause is inserted to the effect that the insured must wear a suitable and well fitting truss.

Are the muscles hard and strong? Is the gait firm and elastic?

These questions have a bearing on the general con dition and physigue of the person examined.

Is the spleen or lizer enlarged?
If the party is residing or has resided in a mahurious district, we may find some embargement of the spleen or liver as a result of the influence of malarial poison acting
on these organs. If the enlargement be chronic it is dut to organic change in the structure of the organs themselves, and would be a cause for rejection.

## Does the state of the teeth, mouth and throat indicate health?

Persons who have sound teeth masticate their food properly and are not liable to dyspepsia.

Sound teeth are usually associated with a strong constitution, and decayed teeth with the reverse.

Inherited syphilis may sometimes be reeognized by the confumation of the teeth, particularty that of the incisors, and also by the state of the mouth and throat.

Habits.
Do you find ly examination or inguiry any. indications that the "pplicant's habits of life are or eier have been other than correct and temperate? The observant Examinel can usually judge of this from the general appearance of the anplicant.

Fxcess of any kind, if contmued for a lengthened period, will lessen the chance of longevity, but there is a great difference between individuals as to the toleration of the system.

Pimsidete.
Do you find any unfororalle features whatezer in the "pplicant's physiyue, family or persomal history; residence (e.g., if matarious), occupation (e g., if involuing any special exposure or danger), hadits or circumstinces of life?

This question is a summary of the circumstances af. fecting the proposed risk, and the answers to it should be well weighed and studied.

Physique refers to conformation or build: any depar.
ture from the normal standard would be of importance only when it affects the probable duration of life.

Family and personal history. Special care nust be exercised to ascertain if there have been any cases o hereditary disease in the inmediate family or near blood relations.

Personal histn:y refers not only to lis present physical condition but also to his present and past habits of life, etc.

Residence, whether healthy or otherwise. If malarious the person is exposed to the dangers of the various forms of malarions disease, both of an acute and chronic nature.

Who is the afplicant's medical adriser? D. Wou need any information from him?

This question may sometimes be of importance, as applicants for insurance have denied having any medical man attending them, and it subsequentiy became known that they had undergone a serious illiness, and had been under trofessional treatment.

A false answer to this question might invalidate the policy.

Sometimes much valuabte information may he obtained as to the habits and former health of the applicant from his usual medical adviser which might not be brought to light by the Company's Medical Examiner.

Do you think the aprilicant will reach the fubll expectation of life?

By "expectation of life" for a given age, is meant simp!'s the probable average duration to which life, among men who have attained that age, will be further extended. Thus taking 1,000 healihy men who have attained the age of 35 , the aygregate duration of life beyond that age for the
whole number wifl ise 31,020 years, or an average of 31.02 years for each man.
'Iables of "life expectation" are a dedu:tion, by a simple calculation, from the "mortality tables," which are made up from the observations of the rate of mirtality at each separate age. Several such iables are in use, fut the one named in the Iominion Insurance Act of a 886 is the Hm. Institute of Actuarics' Table of Mortality, and is made $\mathrm{u}_{\mathrm{p}}$ from the experionce of 20 leading Eneslish offices.

The following is the expectation of life, for eacin age, from 20 to 70 , on the basis of the Hm. Institute of Actuaries' 'Ta!ser of Mortality : -

Table of life Expectation

|  |  |  |  |  |  | $\begin{aligned} & \text { نٌ } \\ & \stackrel{y y y y}{n} \\ & \stackrel{y y y y}{*} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | 42.06 | 33 | 3248 | 46 | 23.08 | 59 | $14.4+$ |
| 21 | 41.33 | $3+$ | 31.75 | 47 | 2238 | 60 | 1382 |
| 22 | 40.60 | 35 | 31.02 | 48 | 21.68 | 61 | 1324 |
| 23 | 39 SS | 36 | 30.29 | 49 | 20.99 | 62 | 12.66 |
| 24 | 39.15 | 37 | 29) 56 | 50 | 20.31 | 63 | 12.10 |
| 25 | $3{ }^{3}+1$ | 38 | 28.84 | 51 | 19.63 | 6.4 | 11.55 |
| 26 | 37.66 | 39 | 28.12 | 52 | 18.95 | 65 | 11.01 |
| 27 | $3^{6} 91$ | 40 | 2740 | 53 | 18.28 | 66 | 10.49 |
| 2 S | 36.16 | 41 | 26.68 | 54 | 1762 | 67 | 0.9 .9 |
| 29 | 35.42 | 42 | 2596 | 55 | 16.96 | 6 S | 9.48 |
| 30 | 34.68 | 43 | 25.23 | 56 | 16.32 | 69 | S.98 |
| 31 | 33.95 | 4 | 24.51 | 57 | 15.68 | 70 | 8.50 |
| 32 | 33.21 | $+5$ | 2.3.79 | 58 | 1505 |  |  |

A!l the considerations iuvolved in the foregong quen tions lead up to this most important one. The lexaminer having investigated the habits, the personal and family his tory, and the present physical condition of the applicant, and iecome acquainted with the conditions and influene:-s which surround him in his daily life, is preparet to give a reliable opinion as to the probsble duration of the apph cant's life.

In any case of reasonable doulto he shouid give the Company the benefit of it.

# fluth simeritan fife Ensumate $\mathbb{C O}_{0}$ 

## MEDICAL DEPARTMENT

Date,<br>Nume,<br>Residence,

## Report on Uriae

Chemical
Cistor
Appearance
Reaction
Sp. (iravity

Albunen
Sugar ....
Bile

Microscope
Casts
Pus
Blood
Cells (other wan blood or pran)
Crystals

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