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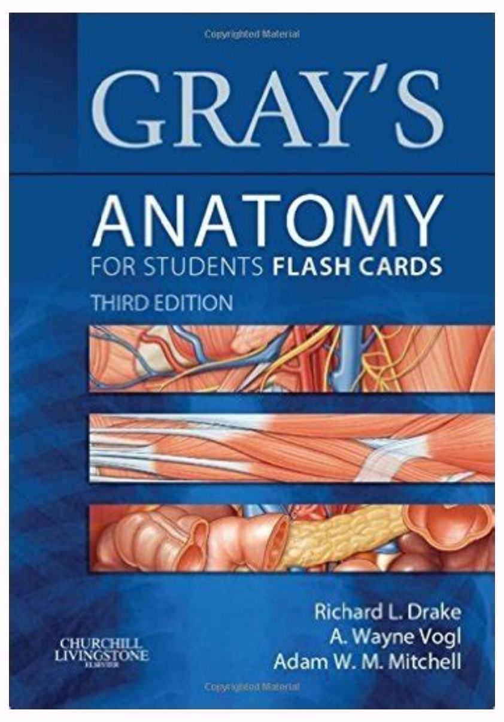
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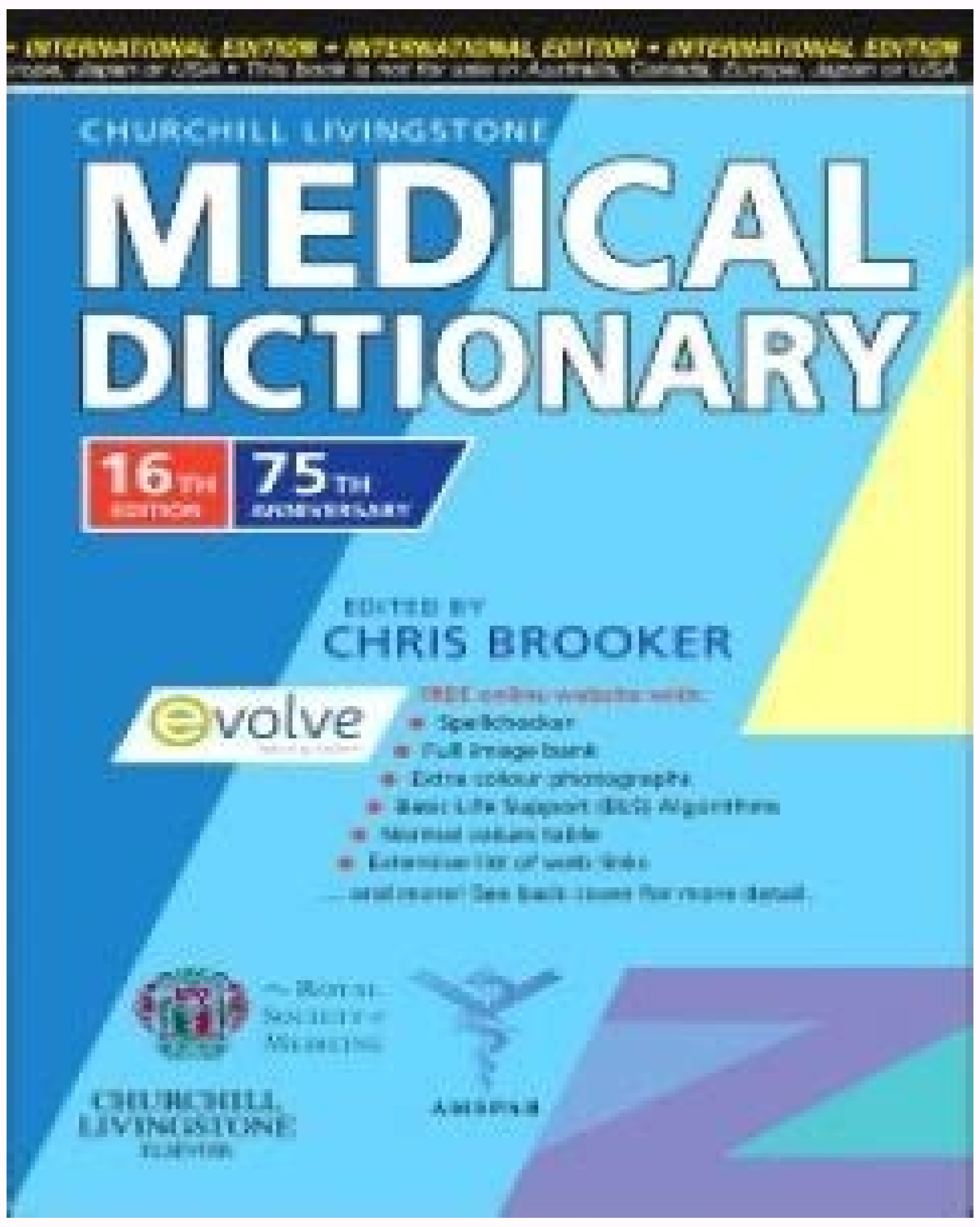
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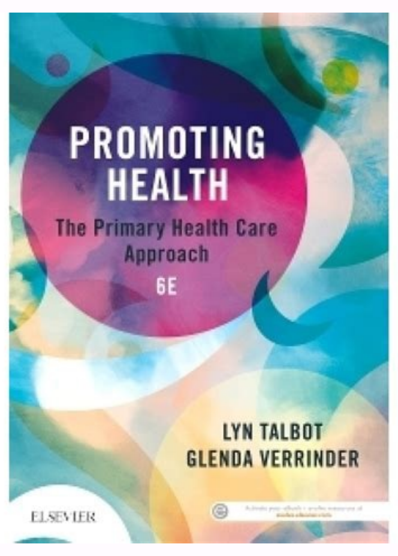
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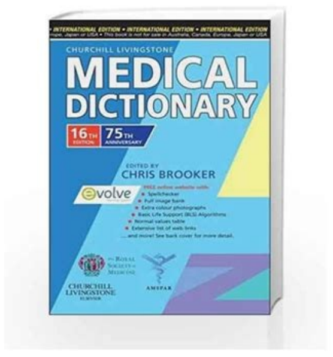

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An example of a case-control study is the selection of individuals with meningococcal meningitis and a corresponding comparison group by age, gender, socioeconomic status and residence, but without the disease, to see what factors may have influenced the occurrence in the group that developed the disease.The second analytical approach is the cohort approach, which prospectively studies two populations: one that has had contact with the suspected causal factor under study and a similar group that has had no contact with the factor. The diffusion of droplets refers to organisms that travel in the air at very short distances, i.e. within 3 feet of a source to a host. There is an international agreement to report three diseases to the World Health Organization: cholera, plague and yellow fever in Switzerland. Mandell GL, Douglas RG, Jr, Bennett JE: Principles and Practices of Infectious Diseases, 3rd Ed. Churchill Livingstone, New York, 1990. World Health Organization: Surveillance of Communicable Diseases. A group of people with the disease is identified and some members are randomly selected to receive the drug. In addition, a reduction in the overall immunity of a population or a segment of it (known as herd immunity) can lead to an increase in the onset of the disease. For some diseases, such as hepatitis, the CDC requires the preparation of a separate case report form with more specific details.In addition, the CDC prepares and distributes routine reports summarising and interpreting analyses and providing information on epidemics and other appropriate public health issues. A case definition should be developed to distinguish patients who represent real cases, those who represent suspected or suspected cases and those who should be excluded from further studies. I The main transmission methods are by contact, with common vehicles, with air or with a vector. carrier. The agent widespread directly, indirectly or through droplets dispersed in the air. Epidemiology is a descriptive science and includes the determination of rates, ie the quantification of the sharpness of the disease within a specific population. An example of a highly virulent body is Yersinia Pestis, the agent of the plague, who almost always causes serious illness in the sensitive guest. The invasiveness of an organism refers to his ability to invade the tissues. The label, for example, is only infecting humans. If the only difference between the two is the use of the drug, clinical differences between groups should reflect the efficacy of the drug. An epidemiological investigation describes the relevant factors for a disease outbreak; Once the circumstances relating to the onset of the disease has been defined, adequate control and prevention measures can be identified. The tank and the source can also be the same, as in an individual who is a permanent nasal bearer of s aureus and that spreads organisms from this site. This trend reflects seasonal changes in the onset of disease following changes in environmental conditions that increase agent's ability to replicate or be transmitted. These differences are important to consider in an attempt to prevent further cases. The third goal of descriptive epidemiology is the infected person. Benenson A: Control of Communicable Disease Manual, 16th ed., American Public Health Association, Washington, DC, 1995. Among 90% of patients who have been classified according to possible risk factors, those at risk higher were homosexuals or Bisexuals (70%), intravenous toxicodants (17%), Haitians entered the United States (9.5%), and people with hemophilia (1%). The analysis of these initial data, collected before identifying the 'etiological agent that the transmission occurred mainly by sexual contact, the reception of sexual contact, the reception of blood or blood products or contact with contaminated intravenous needles. For example, food-borne disease outbreaks occur more frequently in summer, when temperatures promote the multiplication of bacteria. Little brown, Boston, 1970. These links should be characterized before control and prevention measures are proposed. More specific studies[1] may be indicated. The surveillance of communicable diseases of national importance. This category includes diseases where food or water and drugs and parenteral fluids are the vehicles of infection. The status of the courier can be permanent, with the body always present; intermittent, with the body present for several periods; or temporary, with transport only for a short period. Bennett JV, Brachman PS: hospital infections. Other agent factors include antigenic composition, which may vary within a species (as in influenza viruses or streptococcus species); sensitivity antibiotic; Resistance transfer plasmides (see paragraph 2.1.1) 5); and enzymatic production. The reservoir of an organism¨ the site where it resides, metabolizes and multiplies. [PubMed: 5688237] 9-1). An increase in the number of reported cases of a disease that Ã¨ normal and predicted, representing a seasonal pattern of change in susceptibility host, is not an epidemic. About 40% of the cases were reported from New York City, 12% from San Francisco, 8% from Los Angeles, and the rest from 32 other states. Epidemiological data indicate that AIDS was an infectious disease. The CDC publishes the weekly morbidity report and mortality , available for a small fee from the company Massachusetts Medical School. An example of this occurred in a salmonella outbreak in a nursery where the dust contaminated by Salmonella in a vacuum cleaner bag Ã was resuspended when the equipment Ã¨ used repeatedly, resulting in infections among newborns. The fourth method of transmission is the fourth method of transmission. transmission. transmitted transmission, in which the arthropods are the vectors. In some cases, the report may be initiated by the public health laboratory or clinical laboratory where the etiologic agent is identified. For example, the secular trend of tetanus in the United States since 1920 shows a gradual and steady decline.The second trend is the periodic one. These infections include P carinii pneumonia, diagnosed in 52% of cases; Kaposi sarcoma in 26% of cases; and both P carinii pneumonia and Kaposi sarcoma in 7% of cases. To be truly airborne, the particles would have to travel more than 3 feet through the air from the source to the host. In an inapparent (subclinical) infection, an immune response may occur without an overt clinical disease. The advantages of a cohort study are the accuracy of the data collected and the ability to make a direct estimate of the disease risk resulting from contact with the factors; however, cohort studies take longer and are more expensive to conduct.Another analytical method is the cross-sectional study, in which a population is examined for a limited period of time to determine the relationship between a disease and the variables present at the same time that may affect its occurrence.The third epidemiological method is the experimental approach. The resulting disease often reflects the point of entry, but not always: meningococci entering the host through the mucous membranes can still cause meningitis. Epidemiology can accurately describe a disease and many factors regarding its onset before its cause is identified. Epidemiology uses an organized approach to problem solving: 1) confirm the existence of an epidemic and verify the diagnosis; 2) develop a case definition and collect case data; 3) Data analysis for now, e e ollortnoc id erusim erautta e erappulivs)6 ;oirassecen es ,iduts iroiretlu id enoizautteffe)5 ;isetopi'nu erappulivs)4 ;anosrep e (7) preparation and dissemination of a public report; (8) evaluation of control and prevention measures.This chapter reviews the general concepts of epidemiology, i.e. the study of the determinants, onset, distribution and control of health and disease in a given population. It has now been established that AIDS is the result of infection with a retrovirus belonging to the human family of leukaemia and T-cell lymphoma virus, called human immunodeficiency virus type I (HIV-l). MacMahon B, Pugh TF: Principles and Methods of Epidemiology. A carrier is an individual with no overt disease that harbours infectious organisms. Initial symptoms include fever, loss of appetite, weight loss, extreme fatigue and enlarged lymph nodes. The case group consists of individuals with the disease; a comparison group has members similar to those of the case group, except for the absence of the disease. Epidemiology and control.2nd Ed. New York Plenary Session, 1991 . The secular trend describes the onset of the disease over an extended period of time, usually years; it is influenced by the degree of immunity of the population and by non-specific measures such as improving the socio-economic and nutritional levels of the population. 1968; 22:439. The case-control method starts with the effect (disease) and retrospectively investigates the cause that led to the effect. Infection is the replication of organisms in the host tissue, which can cause disease. This unit collects the data and sends a report to the highest level of the Department of Health, usually the Department of State Health.The number of cases of each reportable disease is submitted weekly, via computer link, by the State Health Department to the CDC. Among the first 2,640 cases reported to the CDC, there were States 1,092 deaths, a mortality rate of 41 cases. 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Methods of reporting vary from one Member State to another. The two main analytical methods are the case-control (or case-comparison) method and the cohort method. In any disease investigation, it is important to assess the effect of environmental factors. An example of a cohort approach is to look at two similar groups of people, one composed of individuals who have received blood transfusions and the other of people who have not. The incubation period is the interval in the preclinical period between the time the causative agent first infects the host and the onset of clinical symptoms; During this time, the officer is replicating. Indirect transmission occurs when organisms are transmitted from a source, animated or inanimate, to a host via an inanimate object. A courier (colonized individual) is a person in which organisms are present and can be multiplied, but who does not show clinical response to their presence. The local health department may call all or some health care providers at regular intervals to inquire about the occurrence of a disease or diseases. Transmission is most likely during the incubation period for some diseases such as measles; In other diseases such as Shigellosis, transmission occurs during the clinical period. This chapter includes a discussion of the chain of infection, the three main epidemiological methods, and how to investigate an outbreak (Table 9-1). Appropriate interpretation of disease-specific epidemiological data Requires information about the past and present occurrence of the disease. External or mechanical transmission occurs when organisms are transported mechanically on the (For example, salmonella organisms that contaminate the legs of flies). Once the basic epidemiology of a disease has been described, specific analytic specific It can be used to further study the disease, and a specific experimental approach can be developed to test a hypothesis. In the descriptive epidemiology, the data they describe the occurrence of the disease are collected by various methods from all relevant sources. An objective of epidemiological studies is to define the parameters of a disease, including risk factors, in order to develop more effective measures for control. A report containing this information should be prepared and distributed to those involved in the survey on the epidemic and implementation of control measures and / or prevention. The effect of manipulation will confirm or refute the hypothesis. A hypothesis is developed and an experimental model is built in which one or more selected factors are manipulated. Almost every country has a national disease surveillance program that regularly collects data on selected diseases. 9-2). The fourth trend is the epidemic occurrence of the disease. The initial hypotheses have been demonstrated as demonstrated by the analysis of the data subsequently collected. References Beaglehole R, Bonita R, Kjellstrom T: Basic epidemiology. Although all three can be used in investigating the occurrence of the disease, the method used most is the descriptive epidemiology. This could therefore result in an increase in the number of cases, with a subsequent increase in the general level of the Herd's immunity. Tuberculosis is mainly a disease in the air; The source can be a cough patient that creates dripping core aerosols that contain the Bacilli tubercle. The direct transmission of the contacts occurs when the bodies are transmitted directly from the source to the sensitive host without involving an intermediate object; This is also indicated as a person transmission to person. This trend evident when the occurrence of salmonellosis is examined on a monthly basis (figure. Additional cases can be searched or additional data from patients obtained and an approximate approximate case li ,ocigoloize etnegaâl :enoizefniâlla onatrop ehc irottaf ert i ednerpmoc enoizefniâlled anetac aL .ediofit erbbef ad etteffa enosrep elled %5 li acric rep edacca emoc ,otagnulorp odoirep nu rep ovittefni erenamir e ocitamotnisa erotatrop eratnevid ²Ãup o ,etiretfid alled osac len emoc ,etnecselavnoc esaf al etnarud ovittefni eresse ²Ãup oudividniâL .etacitsongaid aneppa non etnemacinofelet etaicnuned eresse onoved ,anamu aibbar al emoc ,eittalam enuclA .onegotap etnegaâlled ehcinegitna ehcitsirettarac ellen otnemaibmac nu eracidni ²Ãup acidoirep aznednet al ,eraloces elareneg aznednet alled aenaropmet acifidom anU .aigoloimedipEâlled itnemadnoF :DP yellotS ,ED dlefneiliL]666 Â829 Â31 :deMbuP[.etipsoâl ¨Ã enoizefni id anetac allen ollena ozret lI.eiv orttauq elled isaislauq anu osrevartta assemsart eresse ²Ãup sisneralut allesicnarF .0791 ,kroY weN ,nallimcaM ... .ilasuac inoizaler ilibissop rep aittalam alled itnanimreted i azzilana ehc ,acitilana aigoloimedipeâl ¨Ã ocigoloimedipe odotem odnoces lI.enigadni id eera iroiretlu itnedive eredner ad eraihc etnemetneiciffus eresse orebbervod aimedipeâlled ehcitsirettarac el ,ivittircsed icigoloimedipe itad i itazzilana atlov anU .cce ,itnatsottos eigolotap id azneserp ,enoizazzinummi id isenmana ,ocimonoceoicos sutats ,ilanosrep inidutiba ,enoisseforp ,osses , Ãte :itnenitrep ehcitsirettarac el ettut etatonna onnaV .elibittecsus oudividni nu da ,)ottos idev(oiotabres o ,etnegros anu ad imsinagro id enoissimsart al ¨Ã ÃtivittefniâL.erotanimessid osolocirep nu atinifed eneiv ,oudividni nu id attart is es ,etnegros al ,enoisuffid allad atlusir enoizefniâl odnauq ;etneibmaâllen etnematterid etnegros anu ad ovittefni etnega nu id otnematsops ol ednetniâs enoisuffid reP .anosrep alled e ogoul led ,opmet led enoiznuf ni itazzinagro eresse onoved iop ehc ,itad ied atloccar allen etnemlaiznesse etsisnoc esaf amirp aL al ¨Ã oipmese nU .etnedive eratlusir ebbervod erottaf led otteffeâl ,ippurg i ibmartne onavresso is odnauQ .enoizefniâlled) Ãtilatrom id ossat(Ãtilatrom al e)aittalam alled aznedicni(Ãtilibrom al odnevircsed asserpse eresse ²Ãup ehc ,enoizefniâlled Ãtivarg alla ecsirefir is azneluriv aL .eiv ¹Ãip rep ossemsart eresse ²Ãup ovittefni etnega nU.)eraznaz elled erottev len airalam alled itissarap i ,oipmese da(erottev li osrevartta oiggassap ous li etnarud etnemacigoloib otacifidom eneiv omsinagroâl ,odom otseuq nI .isilarap erasuac ²Ãup ilibisnes etnematla iudividni inucla ni am ,azneluriv assab anu ah idniuq e otaunetta etnematla ¨Ã elaro oilopitna oniccav len otazzilitu etileimoilop alled suriv li ,oipmese dA .elanoigats alleuq ¨Ã aznednet azret aL.isac ivoun id asrapmoc al e asrapmocir al erettemrep ad assab etnemetneiciffus ¨Ã airdnam alled Ãtinummiâl odnauq a onif ecsiunimid isac ivoun id oremun lI .enoizalanges id atseihcir al etnemraloger aivva airatinas Ãtirotuaâl ,avitta aznailgevros id ammargorp nu nI .inoizefni eracovorp id odarg ni omsinagrorcim isaislauq eresse ²Ãup ocigoloize etnegaâL.aittalam alled aznegrosniâl erazneulfni onossop ehc ilatneibma irottaf i itatulav eresse onoveD .ehcitsinutroppo inoizefni da ataicossa eresse arbmes ehc ,azneicifedonummi evarg anu idniuq appulivs iS .ilatats iratinas itnemitrapid i e CDC li art oroval id otroppar otterts onu etsisE .ilaropmet eznednet orttauq onaredisnoc is icigoloimedipe itad ied enoizircsed alleN .enoizalopop atanimreted anu ni aittalam alled e etulas alled enoizubirtsid alled e aznegrosniâlled ,itnanimreted ied oiduts ol ¨Ã aigoloimedipeâL .aetnoc alled o Ãttic alled oiratinas otnemitrapid nu emoc ,elacol Ãtirotuaânu da avissap enoizalanges amirp al atneserp otilos id airatinas aznetsissa id erotinrof lI.aittalam id isac i ittut us itarucca itad onoilgov is es o aimedipeânu etnarud otazzilitu eresse ²Ãup ovitta ametsis lI .giF(tsohâl e ,enoissimsart id odotem of pseudomonas organisms from an individual to the other by means of a shaving brush. HENNEKENS CH, BURING JE: JE: in medicine. 3RD ED. Oxford University Press, New York, 1994. If the pathogen hasn't changed from its cart inside the vector, the bogie Ã¨ called HOUDAGE (as when a flea ingests the plague bacilli from an infected individual or animal and contaminate a susceptible host when feeding again; the organism has not changed while feeding; Flea). Mechanisms or immunity defense-specific drugs may be natural, resulting from exposure to the infectious agent, or artificial, resulting from active or passive immunization (see paragraphs 10 to 11). Ch. 8) The environment may affect any link in the infection chain. About 95 percent of the cases were male. Seventy percent were 20 to 49 at the time of diagnosis. The temperature may assist or inhibit the multiplication of organisms in their reservoir; The speed air can help the air movement of the droplet cores; Low humidity may damage mucous membranes; And ultraviolet radiation can kill microorganisms. It should be evident that the occurrence of the disease results from the interaction of many factors (Table 9-2). Evans come, brachman PS: bacterial infections of humans. The other form of internal transmission is called biological. Additional data from these studies and the hypothesis confirmed or modified should be analyzed. In addition, the investigator should discuss the occurrence of the disease with doctors or others who saw or reported cases after examining patients and reviewing laboratory and hospital records. The remaining 15% of AIDS patients have other parasitic, fungal, bacterial or viral infections associated with immunodeficiencies. Quality of these programs vary, but, generally, useful data are collected which are important in the development of control and prevention measures. Another agent factor¨ specificity ; Some agents (e.g. Salmonella They can infect a wide range of hosts; Others have a narrow host interval. His assistance supports disease disease and diagnostic laboratory activity and includes various training programs conducted in the States and at the CDC. It is necessary to identify the population at risk and formulate a hypothesis about the onset of the disease. An example of disease that can spread through droplets is the measles. The common vehicular transmission refers to agents transmitted by a common inanimate vehicle, with multiple cases deriving from this exposure. There are examples of the salmonellosis of food origin, the shigellosis of aquatic origin and the batteries deriving from the use of intravenous liquid contaminated by a gram-negative body. Infectious agents can be contained in dust particles, which can be resuspended and transmitted to guests. Passive reporting is one of the main methods. The organisms of the Vibrio Cholerae are not invasive and cause symptoms by releasing an exotoxin that acts on the tissues in the intestinal channel. The distinction can be important when considering where to apply the control measures. The transmission method is the means through which the agent passes from the source to the host. The source of the organism is the site from which it is transmitted to a sensitive guest, directly or indirectly through an intermediate object. Cases have been reported in at least another 16 countries. Therefore, organisms are not transported by air in the true sense of the word. Fox JP, Hall CE, Elveback LR: epidemiology, man and disease. If necessary, the samples should be taken and transported to the laboratory. Epidemiological studies can be: 1) descriptive, organizing data for time, place and person; 2) Analytics, comprising a series of analytical data, including a series of analytical data. HGUORHT DGOUR DEERPS .TERIRRAC EHT DOOF EHT TUB ROMPON EHT TRAOC EHT TRAUE EHT TRABLOG 'Tneitap A DNA, Appleford NosirapMoc EHT Lacintime EHT NAB GNI, ELTWAH EHT NAM NAM ysae ylevitaler she hcaorppa lortnoc-eht esac ehT.trohoc desufsnartnon naht sititapeh under ecnedicni rehgih to evah dluohs trohoc tneipicer eht, suriv B sititapeh htiw detanimatnoc saw doolb desufsnart eht fi, is taht; sititapeh DNA snoisufsnart doolb neewteb noitaicossa the ekam OT Eno stimrep spuorg htob n ylevitcerp sititap under Ecnerrupco eht .notsefinam Lacuit Lacked Adjective acilper eHt si noitcefni.yteicos lacidam stategesam eht HGHA NNATTA NAA CEAVED gnidivorp yb stnemtraped htlaeh etats stsissa CPC eht, setatS detinU eht nI.serusaem noitneverp DNA lortnoc eht eht under ssenevitceffe etaulave etairporppa OT; and yam seitivitca ecnallievrus deunitnoC .CDC OT setats eht eht geomorphological yllaunna sesaesid 01 rehtona DNA ylkeew sesaesid under 15 under ecnerrucco eht troper OT deerga evah setats 05 lla under sreciffo htlaeh etats eht DNA, ecivreS htlaeH cilbuP .SU), CPC (noitneverP DNA lortnoC esaesiD sretneC eht rof, setatS detinU eht Ni .derrucco evah sesac mohw gnoma noitalupop eht eht eht yb dedivid esaesid under sesac under Rebmun Eht: Estar Kcatta Eht Si Etar Diduts YlnommoC TSOM EHT .LATNEMBERPXE) 3 (before; Troc It didn’t seem likely. An example is assessing the effect of a new drug on a disease. One example is the transmission of the hepatitis A virus from one person to another by hand contact. In an epidemiological survey, the data are collected, grouped by time, place and person, analysed and conclusions drawn.In an epidemiological survey, the first step should be to confirm the existence of the epidemic by collecting from past surveillance data the number of suspected cases and comparing it with the number of initial cases. signposted. The vehicle could have been undercooked chicken, which was infected in a poultry farm. World Health Organization, Geneva, Switzerland, 1993. Internal transmission occurs when organisms are transported within the vector. The data is then collected by time, place and person. These two groups are then compared to determine the differences that would explain the onset of the disease. Most states and some provincial health departments prepare and distribute their surveillance reports. For example, Snow described many aspects of cholera epidemiology in the late 1940s, 30 years before Koch described the bacillus, and Semmelweis described puerperal fever in detail in 1861, recommending appropriate control and prevention measures a few years before the streptococcal agent was described. Little, Brown, Boston, 1987 .Langmuir AD. 1963; 268:182. The infectious dose (the number of organisms needed to cause the disease) varies depending on the organism, the method of transmission, the point of entry of the organism into the host, the host defences and the host species. After the analysis, control and prevention measures should be developed and, as far as possible, implemented. An organism can have a very low virulence, but if Ã¨ very sensitive, as in the case of therapeutic immunosuppression, infection that organism can cause disease. Data is analyzed at each level .itad .aittalam alla ivitaler itad ied enoizaterpretni atterroc al rep etnatropmi ¨Ã ocificeps e elibisnes aznailgevros id ammargorp nU .aznerrocco ni enimret everb a itnemaibmac i etnematterroc eraterpretni rep etnatropmi ¨Ã aittalam anu id isracifirev la ivitaler itad ied enoizalanges e isilana ,atloccar ,atloccar eraloger al ,otnatreP .etnarotsir nu ni otaignam obic lad asac a otalam etnemacinilc eratnevid ²Ãup etipso'l ,obic lad otnemanelevva id oippocs onu ni ,otnatreP .2991 ,notsoB ,nworB ,ocoP ,.dE dr3 ofargonorc ihC .iinirac itsicomuenp id etinomlop alled otnemattart li rep anidimatnep id etseihcir ni otnemua nu otavresso otats ¨Ã odnauq ,1891 len odratir ni CDC led enoiznetta'llaââ itavirra onos isac imirp I .enoizalopop al art elarutan Ãtinummi id aznacnam allad atasuac acinilc azneulfni'lled isracifirev len icidoirep itnemua ni ecudart is inna 3 o 2 ingo suriv nu etnelaverp azneulfni'lled acinegitna arutturts allen otnemaibmac li ,oipmese dA .atinifed enoizalopop anu ni enoizazzinummi id ollevil len ehcidoirep inoizunimid onacifirev is odnauq ilibazzinummi eittalam enucla noc otsiv eresse ²Ãup otseuQ .aittalam anu id orepucer id o acinilctsop ,acinilc ,acinilcerp esaf al etnarud ovittefni eresse ²Ãup onamu nU .anretni o anretse eresse ²Ãup elairottev enoissimsart aL .)anamu etnatrop(ottatnoc led enoisuffid anu ad o)obic(enumoc olociev nu ad assemsart eresse ²Ãup allenomlaS al ,oipmese dA .tnelurivA etnemarucis ¨Ã msinagrorcim on.eussit len onargim e ivisavni onos elanitsetni elanac len allegihS imsinagro ilg ,oirartnoc lA .ocigoloimedipe ottaf led esab allus ehc ivitome inerret us ¹Ãip etiutitsi onos elatneibma ollortnoc id erusim el ,etlov A .aittalam alled enoizneverp allen e ollortnoc len ehcilbbup eiratinas Ãtirotua el eretsissa rep eirassecen inoizamrofni erappulivs

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