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CAUGANT WHO Collaborating Centre for Reference and Research on Meningococci Department of Bacteriology and Immunology Norwegian Institute of Public Health Susanne CHANTEAU Institut Pasteur Nouméa New Caledonia Sébastien COGNAT International Health Regulations Coordination Health Security and Environment World Health Organization Lyon France Pierre NICOLAS WHO Collaborating Centre for Reference and Research on Meningococci Institut de Recherche Biomédicale des Armées – IMTSSA Marseille France Bernard BEALL Chief, Streptococcus Laboratory Respiratory Diseases Branch Division of Bacterial Diseases National Center for Immunization and Respiratory Diseases Centers for Disease Control and Prevention Thomas CLARK Epidemiology Team Lead, Meningitis and Vaccine Preventable Diseases Branch Division of Bacterial Diseases National Center for Immunization and Respiratory Diseases Centers for Disease Control and Prevention Amanda COHN Meningitis and Vaccine Preventable Diseases Branch Division of Bacterial Diseases National Center for Immunization and Respiratory Diseases Centers for Disease Control and Prevention Kimberley FOX Expanded Programme on Immunization World Health Organization Western Pacific Regional Office Manila Philippines Anne von GOTTBERG Head of Respiratory and Meningeal Pathogens Reference Unit National Institute for Communicable Diseases Johannesburg South Africa Nancy MESSONNIER Chief, Meningitis and Vaccine Preventable Diseases Branch Division of Bacterial Diseases National Center for Immunization and Respiratory Diseases Centers for Disease Control and Prevention Rasmata OUEBRAOGO Centre Hospitalier Universitaire Pédiatrique Charles de Gaulle Ouagadougou Burkina Faso Fem Julia PALADIN Expanded Programme on Immunization World Health Organization Regional Office for the Western Pacific Manila Philippines Tanja POPOVIC Deputy Associate Director for Science Office of the Associate Director for Science Office of the Director Centers for Disease Control and Prevention Manju RANI Expanded Programme on Immunization World Health Organization Western Pacific Regional Office Manila Philippines Aparna Singh SHAH Expanded Programme on Immunization South East Asia Regional Office World Health Organization New Delhi India Muhammed-Kheir TAHA Head of the Unit Invasive Bacterial Infections Director of the National Reference Center for Meningococci Institut Pasteur Paris France Cynthia WHITNEY Chief, Respiratory Diseases Branch Division of Bacterial Diseases National Center for Immunization and Respiratory Diseases Centers for Disease Control and Prevention Mary AGOCS Expanded Programme on Immunization Department of Immunization, Vaccines, and Biologicals World Health Organization Geneva Switzerland Eric BERTHERAT Epidemic Readiness and Intervention Department of Epidemic and Pandemic Alert and Response World Health Organization Geneva Switzerland Jean Bosco NDIHOKUBWAYO Division of Health System and Services Development World Health Organization Regional Office for Africa Brazzaville Republic of Congo Fatima SERHAN Expanded Programme on Immunization Department of Immunization, Vaccines, and Biologicals World Health Organization Geneva Switzerland Stephanie SCHWARTZ Division of Bacterial Diseases National Center for Immunization and Respiratory Diseases Centers for Disease Control and Prevention Acknowledgements The World Health Organization (WHO) and the Centers for Disease Control and Prevention (CDC) express their gratitude to those who have contributed their time and experience to this 2nd edition of the "Laboratory Methods for the Diagnosis of Meningitis caused by Neisseria meningitidis, Streptococcus pneumoniae, and Haemophilus influenzae". Special thanks should be given to Dr. Leonard Mayer, CDC, Atlanta, USA, WHO Collaborating Center for Meningitis, for taking the lead in the process of developing as well as compiling and editing this manual. Top of Page Back to Laboratory Methods Manual Full PDF PackageDownload Full PDF PackageThis PaperA short summary of this paper22 Full PDFs related to this paperDownloadPDF Pack Printer friendly version pdf icon1 page) Bacterial meningitis remains a serious global health problem. The laboratory plays a crucial role in diagnosing this devastating disease. By identifying the causative organism and determining antimicrobial susceptibility, laboratorians provide clinicians with the information required to deliver appropriate treatment to their patients. Laboratories play a crucial role for communities and populations as laboratory data are the foundation of public health surveillance for bacterial meningitis. These surveillance data guide ministries of health when responding to epidemics, making decisions about the introduction and use of vaccines, and properly allocating resources according to the needs of the population. Thus, a well-trained and equipped diagnostic laboratory is critical for the health of individuals and populations. In 1999, the World Health Organization published the first edition of "Laboratory Methods for the Diagnosis of Meningitis Caused by Neisseria meningitidis, Streptococcus pneumoniae, and Haemophilus influenzae." That manual aimed to provide laboratories with a clear, concise guide to the basic procedures for isolating and identifying N. meningitidis, S. pneumoniae, and H. influenzae from the blood or cerebrospinal fluid of patients with bacterial meningitis. The focus was on including laboratory procedures chosen for their utility, ease of performance, and ability to give reproducible results; while taking into account the diversity of laboratory capabilities, availability of materials and reagents, and their cost. Since its publication, that manual has been widely adopted by laboratories worldwide. In the twelve years since the first edition of this manual, important changes have occurred both in the epidemiology of bacterial meningitis and in the available laboratory techniques for isolating, identifying, and characterizing the causative organism. In recent years, great progress has been made in increasing worldwide access to vaccines to prevent meningococcal, pneumococcal, and H. influenzae type b (Hib) disease. Most recently, the historic development and implementation of a new meningococcal conjugate vaccine for serogroup A has the potential to eliminate epidemic meningitis in sub-Saharan Africa. Surveillance for diseases caused by infectious agents that are targeted by newer vaccines will likely require a syndromic approach. Patients diagnosed with meningitis syndrome may all exhibit similar symptoms (i.e., fever, headache, stiff neck) but each individual's disease could be caused by a variety of organisms, including the bacterial meningitis pathogens N. meningitidis, S. pneumoniae, and H. influenzae. Hence, clinical syndromic surveillance must be complemented by a strong laboratory component to allow for diagnostic confirmation of the specific disease agent. Laboratory networks supporting surveillance, such as the Invasive Bacterial Vaccine Preventable Diseases (IB-VPD) Surveillance Network and Integrated Disease Surveillance and Response (IDSR), have helped to improve data quality to expedite and sustain evidence-informed decisions at the global, regional, and national levels. These developments prompted a revision of the manual to produce this second edition. The revision follows the format of the first edition, but has been expanded to include Results Management and Reporting of Data (Chapter 3); Biosafety (Chapter 4); PCR for Detection and Characterization of Bacterial Meningitis Pathogens (Chapter 10); Antimicrobial Susceptibility Testing (Chapter 11); Characterization by Molecular Typing Methods (Chapter 12); and Quality Control/Quality Assurance (Chapter 13). Back to Laboratory Methods Manual OBJECT: To study the properties of a compound pendulum, and to determine the acceleration due to gravity by the use of such a pendulum. METHOD: An experimental pendulum is suspended successively about several axes at different points along its length and the period about each axis is observed. A graph is plotted of the period versus the distance of the axis of suspension from one end of the pendulum. The nature of the graph shows the physical properties of the compound pendulum. From values of the period and the corresponding length of the equivalent simple pendulum as determined from the graph, the acceleration due to gravity is calculated. From the mass of the pendulum and its radius of gyration as obtained from the curve, the rotational inertia of the pendulum is computed. THEORY: A simple pendulum consists of a small body called a "bob" (usually a sphere) attached to the end of a string the length of which is great compared with the dimensions of the bob and the mass of which is negligible in comparison with that of the bob. Under these conditions the mass of the bob may be regarded as concentrated at its center of gravity, and the length l of the pendulum is the distance of this point from the axis of suspension. When a simple pendulum swings through a small arc, it executes linear simple harmonic motion, i.e., motion in which the angular acceleration is directly proportional to the angular displacement and oppositely directed. Since the system executes angular simple harmonic motion, substitution of the expression for a from Eq. (6) in Eq. (2) yields the equation for the period of a compound pendulum $T = 2\pi \sqrt{I/mgh}$ (8) where I is the rotational inertia of the pendulum about the axis of suspension S. It is convenient to express I in terms of I₀, the rotational inertia of the body about an axis through its center of gravity G. If the mass of the body is m, I₀ = mk₀² (9) where k₀ is the radius of gyration about an axis through G. For any regular body, k₀ can be computed by means of the appropriate formula (see any handbook of physics or engineering); for an irregular body it must be determined experimentally. The rotational inertia about any axis parallel to the one through the center of gravity is given by I = I₀ + mh² (10) where h is the distance between the two axes. Substitution of the relationships of Eqs. (9) and (10) in Eq. (8) yields $T = 2\pi \sqrt{(k_0^2 + h^2)/gh}$ (11) This equation expresses the period in terms of the geometry of the body. It shows that the period is independent of the mass, depending only upon the distribution of the mass (as measured by k₀) and upon the location of the axis of suspension (as specified by h). Since the radius of gyration of any given body is a constant, the period of any given pendulum is a function of h only. Comparison of Eq. (1) and Eq. (11) shows that the period of a compound pendulum suspended on an axis at a distance h from its center of gravity is equal to the period of a simple pendulum having a length given by $l = (k_0^2 + h^2)/h = h + (k_0^2/h)$ (12) The simple pendulum whose period is the same as that of a given compound pendulum is called the "equivalent simple pendulum." It is sometimes convenient to specify the location of the axis of suspension S by its distance s from one end of the bar, instead of by its distance h from the center of gravity G. If the distances s₁, s₂ and D (Fig. 1) are measured from the end A, the distance h₁ must be considered negative, since h is measured from G. Thus, if D is the fixed distance from A to G, s₁ = D + h₁, s₂ = D + h₂ and, in general, s = D + h. Substitution of this relationship in Eq. (11) yields $T = 2\pi \sqrt{(k_0^2 + (s - D)^2)/(g(s - D))}$ (13) The relationships between T and s expressed by Eq. (13) can best be shown graphically. When T is plotted as a function of s, a pair of identical curves SPQ and S'P'Q' are obtained as illustrated in Fig. 2. (The dotted portions represent extrapolations over apart of the body where it is difficult to obtain experimental data with this particular pendulum.) Analysis of these curves reveals several interesting and remarkable properties of the compound pendulum. Beginning at the end A, as the axis is displaced from A toward B the period diminishes, reaching a minimum value at P, after which it increases as S approaches G. The two curves are asymptotic to a perpendicular line through G, indicating that the period becomes infinitely great for an axis through the center of gravity. As the axis is displaced still farther from A (to the other side of G), the period again diminishes to the same minimum value at a second point P', after which it again increases. A horizontal line SS', corresponding to a chosen value of T, intersects the graph in four points, indicating that there are four positions of the axis, two on each side of the center of gravity, for which the periods are the same. These positions are symmetrically located with respect to G. There are, therefore, two numerical values of h for which the period is the same, represented by h₁ and h₂ (Figs. 1 and 2). Thus, for any chosen axis of suspension S there is a conjugate point O on the opposite side of the center of gravity such that the periods about parallel axes through S and O are equal. The point O is called the center of oscillation with respect to the particular axis of suspension S. Consequently, if the center of oscillation of any compound pendulum is located, the pendulum may be inverted and supported at O without altering its period. This so-called reversibility is one of the unique properties of the compound pendulum and one that has been made the basis of a very precise method of measuring g (Kater's reversible pendulum). It can be shown that the distance between S and O is equal to l, the length of the equivalent simple pendulum. Equating the expressions for the squares of the periods about S and O, respectively, from Eq. (11) $T_2^2 = (4\pi^2/g)(k_0^2 + h_1^2)/h_1 = (4\pi^2/g)(k_0^2 + h_2^2)/h_2$ (14) from which $T_2^2 = (4\pi^2/g)(h_1 + h_2)$ (15) or $T = 2\pi\sqrt{(h_1 + h_2)/g}$ (16) Comparison of Eqs. (1) and (16) shows that the length l of the equivalent simple pendulum is $l = h_1 + h_2$ (17) Thus, the length of the equivalent simple pendulum is SO (Figs. 1 and 2). S' and O' are a second pair of conjugate points symmetrically located with respect to S and O respectively, i.e., having the same numerical values of h₁ and h₂. Further consideration of Fig. 2 reveals the fact that the period of vibration of a given body cannot be less than a certain minimum value T₀, for which the four points of equal period reduce to two, S and O' merging into P, and S' and O merging into P' as h₁ becomes numerically equal to h₂. The value of h₀ corresponding to minimum period can be deduced by solving Eq. (14) for k₀², which yields $k_0^2 = h_1h_2$ (18) and setting h₀ = h₁ = h₂ (19) Thus h₀ = k₀ (20) Substituting in Eq. (12) yields l₀ = 2k₀ (21) Thus, the shortest simple pendulum to which the compound pendulum can be made equivalent has a length l₀ equal to twice the radius of gyration of the body about a parallel axis through the center of gravity. This is indicated in Fig. 2 by the line PP'. Inspection of the figure further shows that, of the two values of h for other than minimum period, one is less than and one greater than k₀. From the foregoing it is evident that if two asymmetrical points S and O can be found such that the periods of vibration are identical, the length of the equivalent simple pendulum is the distance between the two points, and the necessity for locating the center of gravity is eliminated. Thus, by making use of the reversible property of the compound pendulum, a simplicity is, achieved similar to that of the simple pendulum, the experimental determinations being reduced to one measurement of length and one of period. APPARATUS: The apparatus used in this experiment is very simple, consisting merely of a rectangular steel bar approximately 1 meter long carrying a heavy cylindrical mass, and supported on a horizontal axis (Fig. 3). The bar has a series of holes distributed along its length to provide several axes of suspension. In use the pendulum is supported successively at the various holes on a hardened steel knife-edge in a wall bracket, and its period of vibration determined with the aid of a stopwatch. A meter stick and a platform balance with a set of weights are the only other apparatus required. PROCEDURE: Experimental: Support the pendulum on the knife-edge at the hole nearest to one end of the bar, making sure that it swings freely in a vertical plane. With the aid of a stopwatch, observe the time of 50 full vibrations and determine the period. In making this determination, begin with the count of "zero" as the pendulum passes through its central position, count "one" as it makes its next transit through center going in the same direction, etc. In a like manner determine the period about an axis through each of the several holes. Remove the pendulum from its support and with a meter stick (preferably one equipped with caliper jaws) measure the distances s₁, s₂, etc., of the various points of suspension from one end of the bar. Record these lengths opposite the corresponding periods. Weigh the pendulum on the platform balance and record its mass m. Analysis of Data: Plot the data in a graph similar to Fig. 2. Draw any horizontal line SS'. From the corresponding period T as determined by the ordinate of this line, and the length l of the corresponding equivalent simple pendulum as given by the average of the values of SO and S'O', calculate the acceleration g due to gravity, by means of Eq. (1). Compare with the accepted value and record the percentage difference. From the mass m of the pendulum and the radius of gyration k₀ as determined from the graph, compute the rotational inertia I₀ about the axis G by Eq. (9). Compute the rotational inertia I about the axis S by Eq. (10). QUESTIONS: What is the minimum period with which this pendulum can vibrate? What is the length of a simple pendulum having the same period? Describe how Fig. 2 would be altered if the cylindrical mass M were near one end, say the end B. With a given, axis of suspension, say S, discuss the effect upon the period of (a) increasing the mass of the cylindrical body; (b) moving it nearer to S. How would the value of the minimum period T₀ be affected by moving the mass M in either direction from the middle? With the mass M near the end B and the pendulum suspended about an axis S' near A, how could the vibration of the system about the axis S' be experimentally observed? Does the center of oscillation of a solid body, such as a rod or bar, lie within the body for any transverse axis of suspension? Explain. Locate the center of oscillation of a meter stick suspended about a transverse axis at the 10cm mark. At what other positions could the meter stick be suspended and have the same period? Prove that the period of a thin ring hanging on a peg is the same as that of a simple pendulum whose length is to the diameter of the ring.

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