

Review article

Preparing SOP for Microbiology Laboratory: A Short Guideline

Md. Shariful Alam Jilani¹, Md. Moniruzzaman Chowdhury¹, Md. Murshed², Zahidul Hasan³

¹Department of Microbiology, Ibrahim Medical College, Shahbag, Dhaka, ²Department of Microbiology, Holy Family Red

Crescent Medical College, Dhaka, ³ Department of Microbiology and Infection Control, Square Hospital, Dhaka

Introduction

In recent years, enormous changes in the organization of health services have taken place throughout the world. The rapidity and extent of these changes in the healthcare delivery system have been nothing short of remarkable. Despite these dramatic progress in the treatment and prevention, infectious diseases remain a major cause of death and debility and are responsible for worsening the living condition of million of people around the world.¹

Infections frequently challenge the physician's diagnostic skill and must be considered in the differential diagnoses of syndromes affecting every organ system. For that reason, diagnostic microbiology has obviously become an integral and inseparable component of modern medicine and public health. Microbiology laboratories play a decisive role in the diagnosis, treatment, prognosis and monitoring of communicable diseases. Therefore, reliable, reproducible and rapid laboratory services, organized in a cost-effective manner, is very much essential for providing quality health services. Accurate detection of microbes and quality assurance in laboratory services, aimed at improving reliability, efficiency and facilitating inter-laboratory comparability in testing, is the backbone of quality healthcare delivery. The use of standard operating procedure (SOP) in clinical microbiology laboratory is one of the most crucial factors in achieving quality health services.²

Standard operating procedure (SOP)

Microbiology investigations are important in the diagnosis, treatment, and surveillance of infectious diseases and policies regarding the selection and use of antimicrobial drugs. It is, therefore, essential that test reports are relevant, reliable, and timely and interpreted correctly.³ The primary goal of the

microbiology laboratory is to diagnose the potentially pathogenic microorganisms and to provide high quality service at the lowest cost for the customers. Achieving this goal requires a detailed analysis of the laboratory processes which include: (i) reduction of reagent and laboratory cost, (ii) improvement of productivity, (iii) improving and specifying of 'turnaround times' (TATs) for each test, (iv) improvement of the quality of specimens submitted, and (v) improvement of the clinical relevance of test results.⁴

A written set of instructions must be available for every test, process or procedure to set the minimum acceptable standard. These instructions are now termed as standard operating procedures or SOPs.⁴ Every laboratory must have SOP also referred to as the 'laboratory procedure manual, hand book or local laboratory bench manual'.

The difficulty in preparing the SOP for microbiology laboratory is that written methods of how to do tests are not enough. Microbiologists also require documentation relating to : (a) what to look for, (b) when and what to report, (c) what sensitivities to test, (d) which, if any, to report, (e) the level of identification required, and (f) the need for confirmatory test in-house or referral to a reference laboratory, etc.

It is obviously very difficult to cover every eventuality, but comprehensive criteria for processing, secondary testing and reporting of all routine specimens must be covered. The manual should lay down the policy of the laboratory for the kinds and sequence of examinations to be made on each of the different kinds of specimen, the criteria for determining the content of specimen, and the standardized wording of reports.⁴

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Betty A. Forbes



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Essentials of Medical Microbiology Apurba Sankar Sastry, Sandhya Bhat K, 2018-10-31 The new edition of this comprehensive guide provides students with the latest information and advances in medical microbiology Divided into seven sections the book begins with discussion on general microbiology followed by immunology systematic bacteriology virology and mycology The second edition has been fully revised and features two new sections covering hospital acquired infections and clinical microbiology The extensive text is further enhanced by more than 600 clinical photographs diagrams and tables The book concludes with annexures on emerging and re emerging infections bioterrorism laboratory acquired infections and zoonosis the transmission of disease between humans and animals Key points Comprehensive guide to medical microbiology for students Fully revised second edition featuring many new topics Highly illustrated with clinical photographs diagrams and tables Previous edition 9789351529873 published in 2015 Manual of Environmental Microbiology Cindy H.

Nakatsu, Robert V. Miller, Suresh D. Pillai, 2020-08-11 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community Specifically this new edition of the Manual Contains completely new sections covering microbial risk assessment quality control and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology

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United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Oversight and Investigations,1988

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