

Pathology

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PATHOLOGY

What is Pathology?

Pathology is the medical specialty concerned with the study of the nature and causes of diseases. It undertakes every aspect of medicine from diagnostic testing and monitoring of chronic diseases to cutting-edge genetic research and blood transfusion technologies. Pathology is integral to the diagnosis of every patient.

Pathology plays a vital role across all facets of medicine throughout our lives, from your conception to your demise. In fact a has been said that "Medicine IS Pathology".

Due to the popularity of many television programs, the word "pathology" conjures images of dead bodies and people in lab coats investigating the cause of suspicious deaths for the police. That's certainly a role of pathology, but in fact it's far more likely that pathologists are busy in a hospital clinic or laboratory helping living people.

Pathologists are specialist medical practitioners who study the cause of disease and the ways in which diseases affect our bodies by measuring changes in the tissues and in blood and other body fluids. Some of these changes show the potential to develop a disease, while others show its presence, cause or severity or monitor its progress or the effects of treatment.

The doctors you see in surgery or at a clinic all depend on the knowledge, diagnostic skills and advice of pathologists. Whether it's a GP arranging a blood test or a surgeon wanting to know the nature of the lump removed at operation, the *definitive answer* is usually provided by a pathologist. Some pathologists also see patients and are involved directly in the day-to-day delivery of patient care.

Currently pathology has three major areas of activity. These relate to either the methods used or the types of disease which they investigate. For further information on each discipline please click on one of the following:

ANATOMICAL PATHOLOGY



Anatomical Pathology is the branch of pathology that deals with the tissue diagnosis of disease. For this, Anatomical Pathologists need a broad-based knowledge and understanding of the pathological and clinical aspects of many diseases.

The tissues on which the diagnosis is made may be biopsy material taken from a patient in the operating theatre, on the ward or from an autopsy (post-mortem). The latter is a small but important component of the work for establishing the cause in cases of sudden or unexpected death, for monitoring disease progression, including the response to treatment or lack of a response, and in criminal cases (forensic pathology) helping police in their investigations. The work of most Anatomical Pathologists is, however, on tissue from living patients. A large part of this is the detection and diagnosis of cancer. A tissue diagnosis is essential before starting treatment involving major surgery, reduction of drug treatments which may have major side effects.

Modern Anatomical Pathologists examine not only samples of solid tissue, but also small specimens of separated cells. This is the sub-specialty of Cytology. The specimens include fluids and tissue obtained mainly for diagnosis and prevention of cancer. The pathologist collects some of these samples themselves, for example, for the diagnosis of cancer of the breast or the prostate. Often this means that a certain diagnosis can be made before the patient has left the clinic. New methods also allow samples of either separated cells or small tissue fragments to be obtained from organs, such as the pancreas, inserted deep within body cavities.

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Reviews

*This book is really gripping and intriguing. it was writtern very perfectly and beneficial. I am easily will get a enjoyment of looking at a created ebook.
(Jaeden Stiedemann Sr.)*

PATHOLOGY



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Speedy Publishing LLC, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Pathology is the study of infectious diseases, their origins and possible cures. A study guide on pathology would be helpful to anyone studying this subject or simply looking to learn more about diseases and pathology. The study guide would give simple explanations of the many different types of pathology such as cytopathology, dermatopathology, and forensic pathology. Pathology as a career is connected to bio medical science and would give advice and information on how to enter one of these fields and become a pathologist.



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