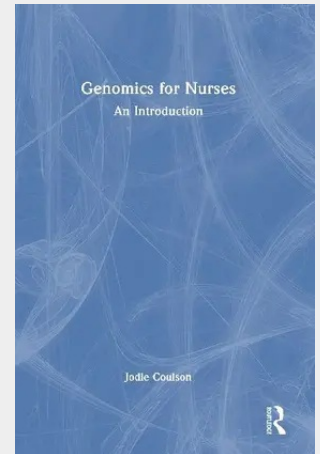


Coulson

Genomics for Nurses

An Introduction

This textbook introduces fundamental knowledge and the latest developments in genomics and explains their relevance to nursing practice, using case studies and activities to help readers to apply their learning. Genomics in health care is no longer limited to specialist areas or single genetic conditions. To provide holistic care, every practitioner in clinical practice now needs to know something about genomics. This unique and timely text outlines what genomics is, and what it means for nurses. Among other issues it discusses: • The UK context, including topics such as how genomics moves from research into practice and funding. • Core nursing skills, alongside a discussion of where nurses are likely to be involved in patients' genomic journeys. • Specific conditions and areas of practice where genomics is most relevant to nursing, with coverage of genetic testing, patient pathways and identification of risk. • Ethics and genomics, including topics such as confidentiality, gene-editing and gene therapy, and resource allocation. • Pharmacogenomics, and how an individual's genetic make-up can influence the efficacy of medical treatments. • Future directions and challenges for the integration of genomics into healthcare practice. Aligned with the relevant Nursing and Midwifery Council and NHS England competencies, it is an essential resource for nursing students and practising nurses.



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