

R&D9 Collate and analyse data relating to research

OVERVIEW

This standard covers collating and analysing data relating to research. It is expected that the researcher would use methods and data types, which are specified within the research proposal. It is also expected that the researcher is able to propose and agree modifications to data collection, which are fit for purpose, remain within the research brief and do not compromise research results. Data may relate to a single hypothesis, single researcher programme or to a larger scale research activity. Users of this standard will need to ensure that practice reflects up to date information and policies. Version No 1

KNOWLEDGE AND UNDERSTANDING

You will need to know and understand:

- 1.the nature and extent of the research plan
- 2.the objectives and scope of the research programme
- 3.techniques for interrogating sources and reliability of data
- 4.relevant ethical issues in relation to access to and use of data
- 5.organisational and regulatory requirements regarding access to and use of data
- 6.methods of capturing and storing data relevant to research programme
- 7.the range of formats and modes of presentation of data and when to use them
- 8.relevant methods and techniques for analysis of results
- 9.ethical issues regarding misrepresentation, citation of sources and use of misleading information
- 10.possible risks associated with use of analytical techniques and how to avoid them
- 11.the nature of the results needed and the context in which research results will be used

PERFORMANCE CRITERIA

You must be able to do the following:

- 1.assess the research information collected for its validity and reliability
- 2.select techniques of analysis and evaluation which are valid, reliable and appropriate

- to the research design and purpose
- 3.collate, record and analyse information accurately to produce justifiable results
 - 4.verify the analysis using accepted and valid techniques
 - 5.select type and range of data to be collected in line with research plan, including primary and secondary sources
 - 6.explain clearly the purpose of enquiry to potential providers of data
 - 7.take appropriate steps to overcome obstacles to the collection of data

ADDITIONAL INFORMATION

This National Occupational Standard was developed by Skills for Health. This standard links with the following dimension within the NHS Knowledge and Skills Framework (October 2004): Dimension: IK2 Information collection and analysis. This standard has replaced HCS_H9 and PH09.01.