

# Professor Jane Luise Hutton

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## Expertise and research activity

I aspire to provide the links which allow substantial questions in health and science to be explored and answered. Connections between theoretical developments in probability, statistics and computing, and the demands of complex, and sometimes very large, observational and experiment data sets are essential. I respect and enjoy the expertise of colleagues across the spectrum from theory to application, and have extensive experience in multi-disciplinary research. I have both initiated inter-disciplinary work, and joined collaborations lead by medical and science professionals.

Society values transparent decision-making. Good planning requires debate on what constitutes evidence, and efficient collection of valid data, as well as appropriate analysis, synthesis and dissemination. My interest in the interplay of information, knowledge and truth led to my scholarly publications on ethics and statistics. Work supported by National Health Service grants led to major roles in Medical Research Council guidelines for cluster randomized designs and in evaluating animal research.

My principal theoretical interests are survival analysis, meta-analysis, and longitudinal data, including the impact of missing data. I have long-standing medical collaborations in cerebral palsy and epilepsy. Our results showing that people with cerebral palsy live much longer than previously assumed has transformed health and social service planning, and we provide expert evidence on the survival of people with cerebral palsy internationally.

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