



Dr Hannah Christensen
BSc.(Hons), PhD

Senior Lecturer in Infectious Disease Mathematical Modelling

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Summary

I am an epidemiologist with particular interests in infectious diseases, modelling and health economics. My doctoral research used infectious disease and economic models to predict the potential impact of introducing a new meningococcal vaccine into the UK schedule. I currently hold an NIHR post-doctoral research fellowship investigating the potential benefit of enhanced or alternative interventions for infectious disease control, focusing on adolescent vaccination and contact tracing.

Biography

Hannah is an epidemiologist with particular interests in infectious diseases, vaccines, modelling and health economics. After completing my BSc (Hons) in Biology at the University of Nottingham in 2003 she spent three years working as an analyst for the Health Protection Agency South West Regional Epidemiology Unit and the South West Public Health Observatory.

In 2007 Hannah joined the Department of Social Medicine (now Population Health Sciences at the Bristol Medical School) as a PhD Fellow funded by an NIHR Researcher Development Award. Her thesis used infectious disease and economic models to predict the potential impact of introducing a new meningococcal vaccine into the UK schedule. Following this, she worked for 2 years on the TARGET study, an NIHR-funded Programme Grant aiming to improve the quality of care given to children presenting to primary care with respiratory tract infections (RTIs). Since then Hannah has held an NIHR post-doctoral fellowship investigating the impact (epidemiological and economic) of meningococcal vaccination schedules, particularly in adolescents and she now holds an NIHR Career Development Fellowship investigating how better to assess the impact and offer effective vaccination in older adults.

Hannah is a member of the NIHR Health Protection Research Unit in Behavioural Science and Evaluation at the University of Bristol.

Activities / Findings

Teaching

Hannah is a unit lead for the MSc in Public Health and co-organises a short course on 'Essentials of Infectious Disease Modelling and Economic Evaluation'.

Keywords

- Infectious disease

- Modelling
- Health economics
- Vaccination
- Meningitis
- Gonorrhoea

Memberships

Organisations

[Bristol Medical School \(PHS\)](#)

Other sites

- [Infection-immunity](#)

Centres, collaborations and units

- [Centre for Academic Primary Care](#)

Recent publications

- Abbott, S, Christensen, H, Lalor, M, Zenner, D, Campbell, C, Ramsay, ME & Pollock, EB, 2019, '[Exploring the effects of BCG vaccination in patients diagnosed with tuberculosis: Observational study using the Enhanced Tuberculosis Surveillance system](#)'. *Vaccine*, vol 37., pp. 5067-5072
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- Cooper, L, Kristiansen, P, Christensen, H, Karachaliou, A & Trotter, C, 2019, '[Meningococcal carriage by age in the African meningitis belt: a systematic review and meta-analysis](#)'. *Epidemiology and Infection*, vol 147.
- Thors, V, Christensen, H, Morales-Aza, B, Oliver, E, Sikora, P, Vipond, I, Muir, P & Finn, A, 2019, '[High Density Bacterial Nasal Carriage in Children is Transient and Associated With Respiratory Viral Infections - Implications for Transmission Dynamics](#)'. *Pediatric Infectious Disease Journal*, vol 38., pp. 533-538
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- Zienkiewicz, A, van Rees, NV, Homer, M, Ong, J, Christensen, H, Hill, D, Looker, K, Horner, PJ, Hughes, G & Turner, K, 2019, '[Agent-based modelling study of antimicrobial resistant Neisseria gonorrhoeae transmission in men who have sex with men: towards individualised diagnosis and treatment](#)'. *Sexual Health*.
- Rodrigues, F, Christensen, H, Morales-Aza, B, Sikora, P, Oliver, E, Oliver, J, Lucidarme, J, Marlow, R, Januário, L & Finn, A, 2019, '[Viable Neisseria meningitidis is commonly present in saliva in healthy young adults: Non-invasive sampling and enhanced sensitivity of detection in a follow-up carriage study in Portuguese students](#)'. *PLoS ONE*, vol 14.
- Redmond, N, Turnbull, S, Stuart, B, Thornton, H, Christensen, H, Blair, P, Delaney, B, Thompson, M, Peters, T, Hay, A & Little, P, 2018, '[Impact of antibiotics for children presenting to general practice with cough on adverse outcomes: Secondary analysis from a multicentre prospective cohort study](#)'. *British Journal of General Practice*, vol 68., pp. e682-e693
- Lasseter, G, Al-Janabi, H, Trotter, CL, Carroll, FE & Christensen, H, 2018, '[The views of the general public on prioritising vaccination programmes against childhood diseases: A qualitative study](#)'. *PLoS ONE*, vol 13.

[View complete publications list](#) in the University of Bristol publications system

Projects

- [TARGET Programme](#)