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AB, PhD

Senior Research Associate in Mathematical Modelling and Health Economics

Area of research

Parasites at the wildlife-livestock interface in Botswana: theory and practice

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Summary

Social and economic factors relating to uptake of disease control measures

Impact of disease control measures in low and middle income countries

Mathematical modelling of disease in complex systems

The role of alternative host species in disease transmission and control

Parasites at the wildlife-livestock interface in subsistence farming systems

Memberships

Organisations

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

Recent publications

- Trickey, A, Fraser, H, Lim, AG, Peacock, A, Colledge, S, Walker, JG, Leung, J, Grebely, J, Larney, S, Martin, NK, Hickman, M, Degenhardt, L, May, MT & Vickerman, P, 2019, [‘The contribution of injection drug use to hepatitis C virus transmission globally, regionally, and at country level: a modelling study’](#). *Lancet Gastroenterology and Hepatology*, vol 4., pp. 435-444
- Walker, JG, Fraser, H, Lim, AG, Martin, N, Hickman, M, Vickerman, P & al., e, 2019, [‘Interim impact evaluation of the hepatitis C elimination program in Georgia: a modelling study’](#). *Lancet Global Health*.
- Trickey, A, Fraser, H, Lim, A, Walker, J, Peacock, A, Colledge, S, Leung, J, Grebely, J, Larney, S, Martin, N, Degenhardt, L, Hickman, M, May, M & Vickerman, P, 2019, [‘Modelling the potential prevention benefits of a treat-all hepatitis C treatment strategy at global, regional, and country levels: a modelling study’](#). *Journal of Viral Hepatitis*.
- Stone, J, Fraser, H, Lim, A, Walker, J, Ward, Z, MacGregor, L, Trickey, A, Abbott, S, Strathdee, SA, Abramovitz, D, Maher, L, Iversen, J, Bruneau, J, Zang, G, Garfein, R, Yen, Y-F, Azim, T, Mehta, S, Milloy, M, Hellard, ME, Sacks-Davis, R, Dietze, P, Aitken, CK, Aladashvili, M, Tsertsvadze, T, Mravnik, V, Alary, M, Roy, E, Smyrnov, P, Sazonova, Y, Young, A, Havens, J, Hope, V, Desai, M, Heinsbroek, E, Hutchinson, SJ, Palmateer, N, McAuley, A, Platt, L, Martin, N & others 2018, [‘Incarceration history and risk of HIV and hepatitis C virus acquisition among people who inject drugs: a systematic review and meta-analysis’](#). *Lancet Infectious Diseases*, vol 18., pp. 1397-1409
- Beltrame, L, Dunne, TF, Vineer, HR, Walker, JG, Morgan, ER, Vickerman, P, McCann, CM, Williams, DJL & Wagener, T, 2018, [‘A mechanistic hydro-epidemiological model of liver fluke risk’](#). *Journal of the Royal Society Interface*, vol 15.

- Mukandavire, C, Walker, JG, Danon, L & Vickerman, P, 2018, '[Estimating the contribution of key populations towards spread of HIV in Dakar, Senegal](#)'. *Journal of the International AIDS Society*, vol 21.
- Walker, J, Evans, K, Rose, H, van Wyk, JA & Morgan, E, 2018, '[Prediction and attenuation of seasonal spillover of parasites between wild and domestic ungulates in an arid mixed-use system](#)'. *Journal of Applied Ecology*.
- Lim, AG, Qureshi, H, Mahmood, H, Hamid, S, Davies, CF, Trickey, A, Glass, N, Saeed, Q, Fraser, H, Walker, JG, Mukandavire, C, Hickman, M, Martin, NK, May, MT, Awerhoff, F & Vickerman, P, 2018, '[Curbing the Hepatitis C virus epidemic in Pakistan: the impact of scaling up treatment and prevention for achieving elimination](#)'. *International Journal of Epidemiology*.
- Walker, JG, Hurford, A, Cable, J, Ellison, AR, Price, SJ & Cressler, CE, 2017, '[Host allometry influences the evolution of parasite host-generalism: theory and meta-analysis](#)'. *Philosophical Transactions B: Biological Sciences*, vol 372.
- Walker, J, Plein, M, Morgan, E & Vesik, P, 2017, '[Uncertain links in host-parasite networks: lessons for parasite transmission in a multi-host system](#)'. *Philosophical Transactions B: Biological Sciences*, vol 372.

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