

### LIIRH Director's Update



Global Professor  
Frank Tanser

It seems scarcely believable that our institute has just passed its two-year anniversary and despite some early challenges, I am proud of the team and what we've achieved in this period. Our inaugural International Scientific Advisory Board (ISAB) which is composed of leading national and international researchers in the field of Rural Health met towards the end of last year. The ISAB felt that the amount of work the institute had done in a short space of time had been "truly extraordinary". The Board particularly liked the approach we have taken to centre activities and strategies around the interdisciplinary skills of the group which they identified as a key strength of the institute. The Board gave specific suggestions for taking the mission of the institute forward which we have started to implement as we look towards the next ISAB meeting in late 2022.

One of my major goals this year has been to increase the external research income of the institute. To date we have raised £1.7 million of funding and during 2022 submitted research grants totalling more than £4 million. A large £2 million HIV-related bid submitted in January led by Lincoln and involving six international partners has received excellent scores and we expect that it will be funded. Long-term funding remains one of the key challenges of any new institute and as we continue to establish our national and international credibility we will move towards attaining longer, larger grants and diversifying our funding sources. Another major priority for me has been to raise the local, national and international profile of the institute. Part of this needs to be done through the excellence of our science to create awareness and put us in a strong position to win large grants and become a collaborator of choice. In this vein our institute has done well. During 2022 we have had 30 scientific papers either published or accepted (full list below) taking our publication total to over 120 journal articles published since our inception. So far this year we have also been active at conferences, having had 19 conference papers accepted at six conferences (full list below). Most notably, the team put in a strong showing at the Rural and Remote conference in Aviemore, Scotland attended by five members of the institute with four poster and two oral presentations (photo on the right).



All of the staff have contributed in many ways to our achievements so far this year, but I want to mention three achievements in particular. Firstly, massive congratulations should go to LIIRH Research Coordinator and PhD student Helene Markham Jones on defending her doctoral thesis and passing her viva without corrections. Helene's research study EFACCT was an evaluation of follow-up and complexity in cancer clinical trial delivery in the NHS. I would like to acknowledge and appreciate the research coordinator role that Helene has played since joining the institute. Juggling her work and her PhD could not have been easy. Secondly, I want to congratulate Luchuo Bain on publishing his opinion piece in the Proceedings of the National Academy of Science (PNAS) – "The impacts of COVID-19 call for a much greater focus on health policy trials". PNAS is one of the top science journals in the world, so this is a big coup for the institute. Lastly, I want to congratulate David Nelson on having no less than seven abstracts accepted at the International Psycho-Oncology Society Conference in Toronto Canada later this year including in-person oral presentations. This is putting down a large footprint for LIIRH and is the type of international exposure the institute needs, particularly in this early stage of its existence.

This is an exciting and challenging moment in the history of our institute as we look to fulfil our mandate of "conducting research that addresses the greatest health issues facing rural communities both locally, nationally and internationally". We have done well to establish a strong foundation, but there will necessarily be hard work ahead as we continue to develop our fledgling institute and strive to achieve our scientific and funding goals.



## AIR-POP Guinea: Novel use of drones to improve HIV diagnosis among infants.



LIIRH Research Fellow Dr. Maxime Inghels



Visit to blood sample laboratory at Donka Hospital, Conakry, Guinea.

LIIRH Research Fellow Maxime Inghels recently travelled to Guinea in West Africa, joining an international team of researchers and representatives from the Solthis NGO exploring the use of drones for the emergency transportation of blood samples from Conakry's health centres to the Donka hospital laboratory.

In Guinea, less than 2 out of 10 HIV-exposed children are diagnosed early. Early diagnosis is needed to enable immediate treatment initiation among HIV-infected children. Without diagnosis and treatment, the majority of infected children are likely to die in their first month of life. However, in Conakry, there are few laboratories capable of carrying out early HIV diagnosis, and traffic jams are a major obstacle to the rapid transport of blood samples.

This project aims to explore the use of uncrewed drones as a potential solution to the delays in the transportation of blood samples. Within that remit, Dr Maxime Inghels is investigating the conditions and costs where transport by drone would be more cost-effective than transport by motorbike. Maxime stated that "civilian uncrewed drone technology is evolving very fast, with many devices now able to go above 55 mi/h, which competes with motorbikes especially when the traffic is dense." When the samples arrive in the laboratory at Donka Hospital the "point of care" machine allows the early HIV diagnosis test to be carried out in 90 minutes, and the result is communicated to the carers by telephone. Failure for a sample to arrive in time at the laboratory leads to a postponed analysis till the following day or risks seeing the mother leaving the hospital with her baby and coming back for the result at a later date when it is too late. When a new-born is diagnosed in time, from the first two months of birth, he or she will have a much better chance of being linked to an appropriate care pathway, thereby increasing his or her chances of survival.

The project involves two additional components; (i) to assess the blood transport system and (ii) measure the acceptability of blood transportation through the use of drones by the population and the healthcare provider. The study also involves meeting with key representatives from several ministries related to health, transport, and the army, as drone flight legislation in Guinea is still at its infancy.

Dr Youssouf Koïta, Coordinator of the National HIV/AIDS and Hepatitis Control Programme (PNLSH) explained that "not all our hospitals, not all our health structures are equipped with HIV diagnosis equipment, so we need to put in place a reliable, rapid transport mechanism to solve a number of problems."

**Innovation in health transport, medical supply and logistics using the latest technology provides potential lifesaving solutions for remote populations.**



## Central Africa Clinical Research Network: CANTAM Dubai 2022

Earlier this year Dr Luchuo Bain participated in the steering committee meeting of the Central Africa Clinical Research Network (CANTAM) in Dubai. Dr Luchuo E. Bain is under the supervision of Associate Professor Matthew Bates of the School of Life Sciences in the College of Science and Prof. Frank Tanser of the Lincoln International Institute for Rural Health (LIIRH). Dr Bain presented a research protocol for a mixed methods study which aims to compare knowledge, attitudes, and perceptions on government responses to the COVID-19 pandemic (COVID KAP study), between rural & urban communities, and across selected countries. All study settings will use the same study protocol. Data collection will be student-led, with Luchuo providing online training for researchers on how to conduct interviews and focus group discussions. The long-term goal is that this novel modality for implementing a study can be used in support of funding to develop follow-on studies using the same model, but on different topics. This project was welcomed by all participating institutions. Currently participating countries include the U.K, Brazil, Zambia, Congo, DRC, Tanzania, Nigeria, Gabon & Cameroon. Dr. Bain welcomes interest from institutions across ranging countries and broader networks. For further information please contact Dr Luchuo Bain. Email: [eluchuo@lincoln.ac.uk](mailto:eluchuo@lincoln.ac.uk).



LIIRH Research Fellow  
Dr. Luchuo E. Bain



## Shared Lives Cancer: Web Platform

A team from the Lincoln International Institute for Rural Health (Dr David Nelson), the School of Health and Social Care (Heidi Green, Dr Sam Cooke and Dr Ros Kane) and Lincolnshire Clinical Commissioning Group/Macmillan Cancer Support (Kathie McPeake) are developing a new and innovative online resource, that aims to support people affected by cancer through making qualitative academic research, relating to lived cancer experiences, publicly available and accessible.

Shared Lives®: Cancer (SL:C) is presented as a dynamic, searchable database of quotations and stories concerning all aspects of the cancer journey. It has been populated utilising qualitative data collected from research covering a range of ages, genders, rural-urban settings, cancer types, treatment type, as well as from informal carers. Extracted data is collated, analysed, and thematically coded before being presented as searchable quotes by a range of themes and keywords. SL:C has the potential to positively influence those affected by cancer by providing a unique user-friendly support platform whilst also informing cancer healthcare professionals and facilitating academic collaboration. Pilot and evaluation research is currently being designed to evaluate and improve website accessibility and functionality before launching SL:C later in 2021. SL:C has the potential to become an important public health tool that positively influences those affected by cancer; whilst enabling research development through collaboration and data sharing.

The work has been funded by the East Midlands Cancer Alliance and Macmillan Cancer Support. For further info, please contact Dr David Nelson, [dnelson@lincoln.ac.uk](mailto:dnelson@lincoln.ac.uk).



LIIRH Research Fellow  
Dr. David Nelson

## LIIRH Researcher Focus: Mark Gussy, Global Professor in Rural Health



LIIRH Global Professor  
Mark Gussy

Global Professor for Rural Health, Mark Gussy, is a founding member of the LIIRH, and an internationally-recognised specialist in community-centred health. Mark heads up the Health Systems and Equity research cluster at LIIRH. He has a particular interest and experience of systems of care/treatment services and the people and groups that sit outside the mainstream service and social systems, and the related health and social inequity that arises from this. Mark stated,

*“When you first identify health inequalities, the first response is often ‘we need more doctors or another clinic’, but when you actually work with communities to explore potential solutions and their aspirations, quite often by the end of that process their response is quite different. Engaging with communities to understand what the problems are and trying to find simple solutions that are context appropriate can be extremely empowering for people and bring solutions that are more sustainable”.*

## LIIRH Researcher Welcome: Paul Mee, Senior Research Fellow



LIIRH Senior Research Fellow  
Dr Paul Mee

Dr Paul Mee recently joined the LIIRH as a Senior Research Fellow. Paul's research focusses on understanding the manner in which spatial and socio-demographic determinants of morbidity, mortality, and engagement with healthcare influences health outcomes, particularly in resource-poor regions.

A major focus of his work involves the impact of anti-retroviral therapy (ART) on health outcomes in populations with a high burden of HIV. Paul brings a wealth of expertise to the institute, moving from the London School of Hygiene and Tropical Medicine, where he was Assistant Professor in Epidemiology.

## Lifetime Achievement Award Finalist: Global Professor Frank Tanser



LIIRH Director Global  
Professor Frank Tanser

Global Professor in Rural Health, Frank Tanser who is the founding Director of LIIRH, recently travelled to the African continent to attend the National Science and Technology Forum in South Africa.

Frank was nominated as a finalist in the prestigious 2020/2021 NSTF-South32 Awards. These awards were established in 1998 to recognise excellence and outstanding contributions to science, engineering and technology (SET) and innovation in South Africa.

## LIIRH PhD Viva Success: Helene Markham Jones, Research Coordinator



LIIRH Research Coordinator  
Dr. Helene Markham Jones

Congratulations to LIIRH Research Coordinator and PhD student Helene Markham Jones on defending her doctoral thesis and passing her viva without corrections. Helene's research study EFACCT was an evaluation of follow-up and complexity in cancer clinical trial delivery in the NHS. The study recruited 13 NHS research sites in secondary care hospitals across England and Scotland.

Her thesis is titled “Being Human”: A Grounded Theory of Complexity and Serendipity in Cancer Clinical Trials. Congratulations also to Dr. David Nelson, a supervisor on the study, on completing his first PhD student supervision and a successful viva outcome.



Research Associate  
Dr. Sue Easton

## Researcher Fellowship Award: Understanding Society

Congratulations to Dr Sue Easton on being awarded an *Understanding Society Fellowship*. The fellowships offer researchers the opportunity to devote time to research supporting the *Understanding Society Longitudinal Study*, one of the largest panel household studies in the world. Sue is a spatial statistical researcher with expertise in mapping and visualising sociospatial data in geographic information systems (GIS), with a focussed interest in studying socioeconomic, spatial and health inequalities.

## Putting Coastal back on the Map: Creating a Coastal, Rural and Urban Classification of Place for England & Wales

Growing evidence over the last 20 years has highlighted a combination of deprivation, older populations, higher levels of chronic disease, disabilities, part-time seasonal employment and migration, poor quality private housing in former B&Bs characterises many coastal towns. However, although a *rural* and *urban* classification of smaller areas of England and Wales has existed since 2003, it has no “coastal” categories. This means that coastal towns and villages are incorrectly classified as “urban” or “rural” towns, often in a sparse setting. This rural-urban classification is widely used by policy-makers, government statisticians and academics to analyse differences in; *employment*, skills, wages; *population differences*; health, distance to services, housing and travel costs between rural and urban. Therefore a new classification is needed – one that puts “coastal” back on the map of what is, after all, an island of nations. This is particularly important as identifying spatial inequalities and the geography of ageing populations, health and illness play a key role in the distribution of welfare funding for health and social services.

Dr Sue Easton, our spatial analytics lead in LIIRH, has created a new prototype *Coastal*, Rural and Urban classification using GIS (Geographic information Science) techniques to identify communities on the coast. This classification takes into account findings from earlier research classifying seaside, coastal and inland towns, adding other smaller coastal communities. Classifying different types of community as coastal is not as easy as it sounds, especially where rural and coastal intersect. For example, how far inland is still coastal? What about estuarine towns? Therefore Dr Easton verified the geographic context of many small settlements around the English and Welsh coast, examining maps in detail village by village. However, as the real “expertise” about these smaller coastal communities belongs to those who know them well, it is important to “ground-truth” this prototype classification. The study is at the stage of inviting feedback on the classification of these borderline areas from local experts is now underway.



Prof. Frank Tanser and Prof. Simon Gregson (Imperial College) on a field trip in the Honde Valley, Manicaland, Zimbabwe.

## Cutting-edge HIV research Manicaland, Zimbabwe

Earlier this year Professor Frank Tanser visited the Manicaland Centre for Public Health Research in rural Zimbabwe. The institute, which is headed by Professor Simon Gregson of Imperial College, London, has undertaken ground-breaking multidisciplinary research to understand and respond to trends in the spread, impact and control of the HIV epidemic in Zimbabwe.

The Manicaland Centre and LIIRH are developing strong, long-term links to support collaborative research in Zimbabwe. Frank Tanser, Paul Mee and Maxime Inghels are co-developing a multi-million dollar HIV prevention grant, along with Simon Gregson and other colleagues from Imperial College and the Manicaland Centre in Zimbabwe, to be submitted for funding later this year. The planned research will seek to leverage male peer networks to increase HIV testing, linkage to HIV care and adoption of HIV prevention strategies.





Hon. Prof. John Wynn-Jones. BSc, MBBS, FRCGP, DRCOG, DCH.

## Honorary Professor Appointment to LIIRH

Dr. John Wynn-Jones has recently been appointed as Honorary Professor to the institute, bringing with him a wealth of expertise in rural healthcare. He is a leading international expert in rural health, including the design of models of medical education, and his appointment as honorary professor further strengthens the international reputation of the Lincoln International Institute for Rural Health (LIIRH). In his appointment to LIIRH, Dr Wynn-Jones will act as visiting professor to the University of Lincoln, actively engaging with students and staff in providing support and advice within his field of rural health expertise. It is anticipated that Dr Wynn-Jones will visit Lincoln annually to (a) deliver staff seminars, supporting the LIIRH Research Development Seminar programme, (b) discuss research and research methodologies with PGRs and ECRs associated with all LIIRH research groups, (c) contribute to the rurality research theme activities. He will also promote LIIRH and the University of Lincoln more broadly at appropriate international fora, thus facilitating development of the LIIRH international collaborative portfolio of research, further supporting LIIRH overseas engagement activities.

John has been a rural General Practitioner in Wales for over 30 years. He has now retired from his clinical practice but maintains his academic roles. He trained at Guy's Hospital London 1969-75 but after finishing his GP training returned to his native Wales to work in a rural practice in Montgomery on the Welsh borders. He founded the UK Institute of Rural Health and the Welsh Rural Postgraduate Unit in 1997 and was instrumental in creating the European Rural and Isolated Practitioner's Association (EURIPA) and remained its president until 2012. John was one of the founding members of the Wonca Working Party on Rural Practice and took over as chair from 2013 to 2019. He was made a Fellow of Wonca in 2020. He is currently the Senior Lecturer in Rural and Global Health at Keele Medical School in the UK and a board member of the English Centre for Rural Health and Care.

His passion for rural practice remains unabated and says that despite our successes to date, we have much more to do to reduce rural inequalities and improve the health outcomes of rural people around the world. He was determined to engage with young doctors and the Young Doctor Movements around the world during his time as chair. He believes strongly that the future of rural practice lies in their hands and the profession needs to engage and enthuse future rural doctors. John states that,

**“Rural populations need a multidisciplinary workforce that is appropriately trained, fit for purpose with a scope of practice that meets the needs of the specific rural and isolated communities that they serve”.**

Amongst the many initiatives established during his chairmanship of RuralWonca, notable achievements include the development of a Rural Medical Education Guidebook, active student and young doctor engagement in the organisation, increased representation from low- and middle-income countries, a global rural student and young doctor network (RuralSeeds) and an international mentoring service for young doctors and medical students.

### Awards

- Katharina Von Kuenssberg Award (Royal College of General Practitioners).
- Fellow of the Royal College of General Practitioners.
- President's International Medal, Royal College of General practitioners 2017
- Honorary Fellow Bangladesh Academy of Family Physicians

## New LIIRH Research Outputs

LIIRH researchers have had a proactive start to 2022 with over 30 research outputs accepted for publication or dissemination, including the following conference papers and presentations:

### Conference Oral Presentations

1. **Bain, L.E.** (2022). Research protocol for mixed methods to compare knowledge, attitudes and perceptions on the government response to the COVID-19 pandemic (COVID KAP study). In: *CANTAM 3. Central Africa Clinical Research Network (CANTAM)*, Dubai. April 2022.
2. **Inghels, M.,** Laborde-Balen, G., Diallo, H., Cissé, M., Montoyo, A., Diakité, A., Koita, Y., Breton, G. (2022). Cout efficacie et acceptabilite du transport d'echantion de sang par drone pour le depistage des nourrisson expose au VIH dans la Ville do Conakry, Guinée (ANRS 12407 AIRPOP). *Cost efficiency and acceptability of drone transportation of blood for the screening of infants exposed to HIV in the town of Conakry, Guinea. AIR-POP Project. AFRAVIH 11<sup>th</sup> International Francophone Conference.* Marseille, France. 6<sup>th</sup> – 9<sup>th</sup> April 2022. <https://afraviv2022.org/programme-scientifique>.
3. **Tanser, F.,** Okango, E. (2022). Population-based trends in detectable viral load in HIV infected individuals living in Rural KwaZulu-Natal, South Africa. Oral presentation at the *24th International Workshop on HIV and Hepatitis Observational Databases (IWHOD)*. 24 – 26th March 2022 – Seville, Spain.
4. **Tanser, F. Inghels, M.** (2022). Lincoln International Institute for Rural Health – Forging a new global health agenda. In: *Rethinking Remote 2022*, 28th-29th April, Aviemore, Scotland.
5. **Nanjonjo, A., Nelson, D.,** Sayers, E., **Lall, P., Tanser, F.,** Siriwardena, N. (2022). Community Efforts to Promote the Covid-19 Vaccine in a Rural UK County. In: *Rethinking Remote 2022*, 28th-29th April, Aviemore, Scotland.
6. Cuadros, D., Singh, U., Olivier, S., Moosa, Y., Edwards, A., Kim, H-Y., Siedner, M., Wong, E., **Tanser, F.** (2022). Collision of HIV and non-communicable disease epidemics: Mapping chronic health needs among a HIV hyperendemic community in rural South Africa. Oral abstract presentation at *AIDS 2022*, 24th International AIDS Conference, Montreal, Canada, 29 July to 2 August 2022.
7. **Markham-Jones, H., Nelson, D.,** Law, G., Curtis, F. (2022). Evaluating Follow-up and Complexity in Cancer Clinical Trials (EFACCT): A Mixed Methods Grounded Theory Study. *International Psycho-Oncology Society (IPOS) Conference*, Toronto, Canada, August 2022.
8. **Nelson, D.,** McGonagle, I., Jackson, C., **Gussy, M.,** Kane, R. (2022). EA rural-urban comparison of the barriers and facilitators to self-management in post-treatment cancer survivors in the UK: A qualitative interview study. *International Psycho-Oncology Society (IPOS) Conference*, Toronto, Canada, August 2022.
9. Green, H., **Nelson, D.,** Cooke, S. **Gussy, M.,** Kane, R. McPeake, K. (2022). Shared Lives©: Cancer' an innovative digital health tool to support people affected by cancer by making lived experience research publicly accessible. *International Psycho-Oncology Society (IPOS) Conference*, Toronto, Canada, August 2022.
10. Fernandes, D., **Nelson, D.,** Siriwardena, N., Law, G. Andreyev, J. (2022). Evaluating the burden of symptoms patients develop after treatment for colorectal cancer. *International Psycho-Oncology Society (IPOS) Conference*, Toronto, Canada, August 2022.
11. Cooke, S. **Nelson, D.,** Green., H., **Gussy, M.,** Kane, R., McPeake, K. (2022). Developing web-based interventions to support people affected by cancer: Findings from a rapid systematic review. *International Psycho-Oncology Society (IPOS) Conference*, Toronto, Canada, August 2022.

### Conference Poster Presentations

12. Green, H.A., **Nelson, D.,** Cooke, S., McPeake, K., **Gussy, M.,** Kane, R. (2022). Innovating e-health: Shared Lives©: Cancer. EANS Winter E-Summit 2022; February 2022.
13. **Nelson, D., Inghels, M.,** Skinner, S., McCranor, T., Yusuff, O., Wyatt, S., Phull, J., **Nanyonjo, A., Gussy, M.** (2022). The experiences of mental health professionals using Telehealth to deliver Psychological Therapies during Covid-19 in a rural UK county. In: *Rethinking Remote 2022*, 28th-29th April, Aviemore, Scotland.
14. McLeod, B., Cooke, S., Kane, R., **Gussy, M., Nelson, D.** (2022). A rapid systematic review on the experiences of cancer survivors who resided in rural areas during the Covid-19 pandemic. In: *Rethinking Remote 2022*, 28th-29th April, Aviemore, Scotland.
15. Graham, F., Kane, R., **Gussy, M., Nelson, D.** (2022). Cancer recovery and survivorship in rural settings across the East Midlands of England. In: *Rethinking Remote 2022*, 28th-29th April, Aviemore, Scotland.
16. **Inghels, M., Nelson, D. Gussy, M.** (2022). Investigating health needs and vulnerabilities of people living in caravans or chalets in rural and coastal areas in Greater Lincolnshire. In: *Rethinking Remote 2022*, 28th-29th April, Aviemore, Scotland.
17. **Tanser, F.** Okango, E. (2022). Population shifts in detectable HIV viral load in rural Kwa-Zulu Natal. E-poster at *AIDS 2022, the 24th International AIDS Conference*, Montreal, Canada, 29 July to 2 August 2022.

18. **Nelson, D.**, McLeod, B., Cooke, S., Kane, R. **Gussy, M.** (2022). The experiences of cancer survivors who reside in rural areas during the Covid-19 pandemic: Findings from a rapid systematic review. Poster Presentation. *International Psycho-Oncology Society (IPOS) Conference*, Toronto, Canada, August 2022.
19. **Nelson, D.**, Graham, F., Kane, R., **Gussy, M.** (2022). Recovery of health and wellbeing in UK cancer survivors from rural areas: A secondary analysis of qualitative interview data. Poster Presentation. *International Psycho-Oncology Society (IPOS) Conference*, Toronto, Canada, August 2022.

## Journal Articles

1. **Bain, L.E.**, Berner-Rodoreda, A., McMahon, S.A., Sarker, M., **Tanser, F.**, Bärnighausen, T., Wikler, D., Eyal, N. (2022). COVID-19 calls for health policy trials. *PNAS* 2022. (IN PRESS).
2. **Inghels M**, Kane, R., **Lall, P.**, **Nelson, D.**, **Nanyonjo, A.**, Asghar, Z., Ward, D., McCranor, T., Kavanagh, T., Phull, J., **Tanser, F.** Ethnicity and risk of SARS-CoV-2 infection among the healthcare workforce: Results of an occupational cohort study in rural United Kingdom. *International journal of Infectious Diseases* 2022. (IN PRESS).
3. Yapa HM, Kim, H-Y, Petoumenos, K., Post, F.A., Jiamsakul, A., De Neve, J-W., **Tanser, F.**, Iwuji, C., Baisley, K., Shahmanesh, M. CD4+ T-Cell Count at Antiretroviral Therapy Initiation in the “Treat-All” Era in Rural South Africa: An Interrupted Time Series Analysis. *Clinical Infectious Diseases* 2022; 74(8): 1350-9.
4. Moore HE, Hill, B., Siriwardena, N., Law, G., Thomas, C., **Gussy, M.**, Spaight, R., **Tanser, F.** An exploration of factors characterising unusual spatial clusters of COVID-19 cases in the East Midlands region, UK: a geospatial analysis of ambulance 999 data. *Landscape and Urban Planning* 2022; 219: 104299
5. Orievulu KS, Ayeb-Karlsson, S., Ngema, S., Baisley, K., **Tanser, F.**, Ngwenya, N., Seeley, J., Hanekom, W., Herbst, K., Kniveton, D. Exploring linkages between drought and HIV treatment adherence in Africa: A Systematic Review. *The Lancet Planetary Health* 2022; 6(4): e359-e70.
6. Moore HE, Siriwardena, A.N., **Gussy, M.**, Hill, B., **Tanser, F.**, Spaight, R. Exploring the Impact of the COVID-19 Pandemic on Male Mental Health Emergencies Attended by Ambulances During the First National “Lockdown” in the East Midlands of the United Kingdom. *American Journal of Men's Health* 2022; 16(2).
7. Kim H-Y, Cuadros D, Wilkinson E, Junqueira DM, de Oliveira T, **Tanser F** (2022) The geography and inter-community configuration of new sexual partnership formation in a rural South African population over fourteen years (2003– 2016). *PLOS Glob Public Health* 2(3): e0000055.
8. Achoki T, Sartorius, B., Watkins, D., Glenn, S.D., Kengne, A.P., **Tanser, F.C.**, et al. Health trends, inequalities and opportunities in South Africa's provinces, 1990–2019: findings from the Global Burden of Disease 2019 Study. *J Epidemiol Community Health* 2022; 76 (1):471–481
9. Mashamba M, **Tanser, F.**, Afagbedzi, S., Beke, A. Multi-drug-resistant tuberculosis clusters in Mpumalanga province, South Africa, 2013–2016: A spatial analysis. *Trop Med Int Health* 2022; 27(2): 185-91.
10. Roberts DA, Cuadros, D., Vandormael, A., Gareta, D., Barnabas, R.V., Herbst, K., **Tanser, F.**, Akullian, A. Predicting the Risk of Human Immunodeficiency Virus Type 1 (HIV-1) Acquisition in Rural South Africa Using Geospatial Data. *Clinical Infectious Diseases*, 2022; , ciac069, <https://doi.org/10.1093/cid/ciac069>
11. **Inghels M**, Kra Kouassi, A., Niangoran, S., Bekelynck, A., Carillon, S., Sika, L., Koné, M., Danel, C., Desgrées du Loû, A., Larmarange, J. ANRS 12323 DOD-CI. Preferences and access to community-based HIV testing sites among men who have sex with men (MSM) in Côte d'Ivoire. *Aids and Behavior* 2022.
12. **Inghels M**, Kim, H-Y., **Tanser, F.**, Hetteema, A., McMahon, S.A., Oldenburg, C.E., Matse, S., Kohler, S., Geldsetzer, P., Bärnighausen, T. PrEP uptake and delivery setting preferences among clients visiting six healthcare facilities in Eswatini. *AIDS and Behavior* 2022: 1-11.
13. Ashe L, **Nelson, D.**, Kontou, E., Lindau, A., McGonagle, I., Kane, R. Primary care practitioner experiences of enquiring about adverse childhood experiences (ACEs) with families: A systematic review to identify barriers, facilitators and implications for health visitor practice. *Journal of Health Visiting* 2022; 10(3): 110-26.
14. **Nelson D**, Lowe, S., Barr, K., Blackwell, J., **Gussy, M.** Primary Care Staff at the ‘Deep End’: Experiences from Lincolnshire’s East Coast. *British Journal of General Practice – Life*. Online article. 24 February 2022
15. Moore HE, Hill, B., Siriwardena, A.N., **Tanser, F.**, Spaight, R. Rethinking the health implications of society-environment relationships in built areas: An assessment of the access to healthy and hazards index in the context of COVID-19. *Landscape and Urban Planning* 2022; 217.
16. Cuadros DF, de Oliveira, T., Gräf, T., Junqueira, D.M., Wilkinson, E., Lemey, P., Bärnighausen, T., Kim, H-Y., **Tanser, F.** The role of high-risk geographies in the perpetuation of the HIV epidemic in rural South Africa: A spatial molecular epidemiology study. *PLOS Global Public Health* 2022; 2(2).
17. Chidumwa G, . Chimbindi, N., Herbst, C., Okeselo, N., Dreyer, J., Zuma, T., Smith, T., Molina, J-M., Khoza, T., McGrath, N., Seeley, J., Pillay, D., **Tanser, F.** et al. A study protocol for the effectiveness of HIV prevention embedded in sexual health with or without peer navigator support (Thetha Nami) to reduce prevalence of



transmissible HIV amongst adolescents and young adults in rural KwaZulu-Natal: a 2× 2 factorial randomised controlled trial. *BMC public health* 2022; 22(1): 1-10.

18. Johnson JM, Durrant, S.J., **Curtis, F.**, Santiago, J., Scott, E., Law, G. A Systematic Review and Meta-analysis of Slow-Wave Sleep and Rapid Eye-Movement Sleep Interventions for Glycaemic Control. *Sleep Medicine Reviews* 2022; 92(1): 50-58.
19. Nyakato P, Schomaker, M., Fatti, G., **Tanser, F.**, Euvrard, J., Sipambo, N., Fox, M.P., Haas, A.D., Yiannoutsos, C.T., Davies, M.A. Virologic non-suppression and early loss to follow up among pregnant and non-pregnant adolescents aged 15–19 years initiating antiretroviral therapy in South Africa: a retrospective cohort study. *Journal of the International AIDS Society* 2022; 25(1).
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## Recent Successful Funding Bids

Our team of researchers at the LIIRH have been successful in securing research funding for the following studies:

1. Research into current models of MSK disorder management across the Lincolnshire ICS: £35,000.00
2. Developing a Toolkit for increasing participation of rural residents in health and social care research: £30,125.00
3. Sexual Health Observational Research in Coastal and Rural Environments (SHORE) : £99,412.56
4. Public Health Intervention Responsive Studies Team: £87,322.38
5. Causal Pathways to population health impact of HIV antiretroviral treatment in rural South Africa: £75,068.84
6. First Coastal PCN Anthropological Study: £11,500.00
7. Can HIV spots be eradicated? An intervention to decrease HIV Transmission to young women in rural Kwa-Zulu-Natal, South Africa (HITS): £119,104.12

## Forthcoming LIIRH Seminars

- Friday 27<sup>th</sup> May 2022 – “Beyond key populations: HIV self-testing and secondary distribution in West Africa, lessons learned from the ATLAS project in Cote d'Ivoire, Mali and Senegal”. Presented by Joseph Larmarange.
- Friday 1<sup>st</sup> of July 2022 – Seminar presented by Derek Ward, Head of Public Health in Lincolnshire.

For further information on LIIRH seminars visit: <https://liirh.lincoln.ac.uk/events/>