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## Employment

### Professor in Infectious Diseases

The Hull York Medical School  
University of York  
Heslington, York  
1 Aug 2019 → present

## Research outputs

### Current Use of Infrared Thermography in Orthopaedic and Bone or Joint Trauma Patients-Can We Identify Postoperative Infection? A Narrative Systematic Review

Watts, A. T., Boyle, A. M., Kutuzov, V., Warner, C., Staniland, T., Barlow, G. & Sharma, H., Sept 2025, In: Strategies in trauma and limb reconstruction (Online). 19, 3, p. 141-148 8 p.

### Multi-centre evaluation of Gram stain in the diagnosis of septic arthritis

Maloney, R. J., Wearmouth, D., Sharma, H., Saeed, K., Ahmad-Saeed, N., Annett, R., Barrett, L., Boyd, S. E., Davies, P., Hughes, H., Jones, G., Leach, L., Lynch, M., Nayar, D., Marsh, M., Mitchell, S., Moffat, L., Moore, L. S. P., Murphy, M. E. & O'Shea, S. A. & 6 others, Peach, T., Petridou, C., Reidy, N., Talbot, B., Aldridge, C. & Barlow, G., 17 Mar 2025, In: Journal of bone and joint infection. 10, 2, p. 61-71 11 p.

### Health-associated quality of life impairment in people who inject drugs (PWID) after bloodstream infection

Richards, A., Mortimer, I., Burns, P., Plevneshi, E., Barlow, G., Easom, N. & Lillie, P. J., 1 Jan 2025, In: The Journal of infection. 90, 1, 7 p., 106375.

### How can we optimize antifungal use and stewardship in the treatment of acute leukemia?

Taynton, T., Allsup, D. & Barlow, G., 25 Jul 2024, (E-pub ahead of print) In: Expert review of hematology. 17, 9, p. 581-593 13 p.

### Biomarker Driven Antifungal Stewardship (BioDriveAFS) in acute Leukaemia – a multi-centre randomised controlled trial to assess clinical and cost effectiveness: a study protocol for a randomised controlled trial

Flett, L. G., Abdelatif, R., Baz, S. A., Brady, S., Corbacho, B., Common, K., Cowling, A., Fairhurst, C. M., Fitzmaurice, E., Gandhi, S., Hilton, A., Hope, W., Howard, A., Laycock, J. L., Lillie, P., Mitchell, G., Parker, A., Peel, M., Sheard, L. & Sneddon, J. & 6 others, Taynton, T., Tharmanathan, P., Torgerson, D. J., Wang, H.-I., Allsup, D. & Barlow, G., 28 Jun 2024, In: Trials. 25, 427.

### Potential value of a rapid syndromic multiplex PCR for the diagnosis of native and prosthetic joint infections: a real-world evidence study

Pascual, S., Noble, B., Ahmad-Saeed, N., Aldridge, C., Ambretti, S., Amit, S., Annett, R., O'Shea, S. A., Barbui, A. M., Barlow, G., Barrett, L., Berth, M., Bondi, A., Boran, N., Boyd, S. E., Chaves, C., Clauss, M., Davies, P., Dianzo-Delgado, I. T. & Esteban, J. & 52 others, Fuchs, S., Friis-Hansen, L., Goldenberger, D., Golle, A., Groonroos, J. O., Hoffmann, I., Hoffmann, T., Hughes, H., Ivanova, M., Jezek, P., Jones, G., Ceren Karahan, Z., Lass-Flörl, C., Laurent, F., Leach, L., Horsbøll Pedersen, M. L., Loiez, C., Lynch, M., Maloney, R. J., Marsh, M., Milburn, O., Mitchell, S., Moore, L. S. P., Moffat, L., Murdjeva, M., Murphy, M. E., Nayar, D., Nigrisoli, G., O'Sullivan, F., Öz, B., Peach, T., Petridou, C., Prinz, M., Rak, M., Reidy, N., Rossolini, G. M., Roux, A.-L., Ruiz-Garbajosa, P., Saeed, K., Salar-Vidal, L., Salas Venero, C., Selvaratnam, M., Senneville, E., Starzengruber, P., Talbot, B., Taylor, V., Trebše, R., Wearmouth, D., Willinger, B., Wouthuyzen-Bakker, M., Couturier, B. & Allantaz, F., 28 Feb 2024, In: Journal of bone and joint infection. 9, 1, p. 87-97 11 p.

### Molecular antimicrobial susceptibility testing in sepsis

Martin-Loeches, I., Pereira, J. G., Teoh, T. K., Barlow, G., Dortet, L., Carrol, E. D., Olgemöller, U., Boyd, S. E. & Textoris, J., 5 Jan 2024, In: Future microbiology. 19, p. 61-72 12 p.

**Surgical site application of antibiotics: A potential game changer for fracture-related infection care and antibiotic stewardship**

Bangash, F., Muddassir, M. & Barlow, G., 1 Dec 2023, In: Journal of orthopaedics. 46, p. 139-142 4 p.

**A review of evidence for pneumococcal vaccination in adults at increased risk of pneumococcal disease: risk group definitions and optimization of vaccination coverage in the United Kingdom**

Campling, J., Vyse, A., Liu, H.-H., Wright, H., Slack, M., Reinert, R.-R., Drayson, M., Richter, A., Singh, D., Barlow, G., Kassianos, G. & Ellsbury, G., 11 Sept 2023, In: Expert Review of Vaccines. 22, 1, p. 785-800 16 p.

**Surgical debridement in long bone chronic osteomyelitis: is wide tumour-like resection necessary?**

Langjit, M. B., Tay, K. S., Al-Omar, H. K., Barlow, G., Bates, J., Chuo, C. B., Muir, R. & Sharma, H., 24 Aug 2023, In: Bone & Joint Open. 4, 8, p. 643-651 9 p.

**Impact of adherence to individual quality-of-care indicators on the prognosis of bloodstream infection due to Staphylococcus aureus: a prospective observational multicentre cohort**

International Staphylococcus Aureus Collaboration Study Group, The European Society of Clinical Microbiology and Infectious Diseases Study Group For Bloodstream Infections, Endocarditis And Sepsis, Apr 2023, In: Clinical microbiology and infection. 29, 4, p. 498-505 8 p.

**A multicentre evaluation and expert recommendations of use of the newly developed BioFire Joint Infection polymerase chain reaction panel**

Saeed, K., Ahmad-Saeed, N., Annett, R., Barlow, G., Barrett, L., Boyd, S. E., Boran, N., Davies, P., Hughes, H., Jones, G., Leach, L., Lynch, M., Nayar, D., Maloney, R. J., Marsh, M., Milburn, O., Mitchell, S., Moffat, L., Moore, L. S. P. & Murphy, M. E. & 10 others, O'Shea, S. A., O'Sullivan, F., Peach, T., Petridou, C., Reidy, N., Selvaratnam, M., Talbot, B., Taylor, V., Wearmouth, D. & Aldridge, C., Feb 2023, In: European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology. 42, 2, p. 169-176 8 p.

**Case Report: The effect of intravenous and oral antibiotics on the gut microbiome and breath volatile organic compounds over one year**

Shahi, F., Forrester, S., Redeker, K., Chong, J. P. J. & Barlow, G., 5 Dec 2022, In: Wellcome Open Research. 7, 22 p., 50.

**Misdiagnoses in the Context of Suspected Pandemic Influenza or Coronavirus Disease 2019: A Systematic Review**

Bray, L., Meznikova, K., James, D., Rislán, R., Shah, R., Mason, P., Staniland, T., Lillie, P., Barlow, G. & Easom, N., Nov 2022, In: Open Forum Infectious Diseases. 9, 11, ofac515.

**Significantly lower 30 day/inpatient mortality observed in people who inject drugs (PWID) compared to non-PWID with Staphylococcus aureus bacteraemia**

Mortimer, I., Drury, K., Lowe, S., Akhtar, M., Barlow, G. D., Easom, N. & Lillie, P. J., Oct 2022, In: The Journal of infection. 85, 4, p. 436-480 45 p.

**Epidemiology, Outcomes and Resource Utilisation in Patients with Carbapenem Non-susceptible Gram-Negative Bacteria in the UK: A Retrospective, Observational Study (CARBAR UK)**

Goldenberg, S. D., Dodgson, A. R., Barlow, G., Parcell, B. J., Jones, L., Albur, M., Wilson, A. P. R., Enoch, D. A., Marek, A., Micallef, C., Manissero, D., Longshaw, C., Lopes, S. & Gill, K., Aug 2022, In: Advances in therapy. 39, 8, p. 3602-3615 14 p.

**Pro: Biomarker surveillance for invasive fungal infections without antifungal prophylaxis could safely reduce antifungal use in acute leukaemia**

Taynton, T., Barlow, G. & Allsup, D., Aug 2022, In: JAC-antimicrobial resistance. 4, 4, 4 p., dlac074.

**Evaluation of in vitro activity of fosfomycin, and synergy in combination, in Gram-negative bloodstream infection isolates in a UK teaching hospital**

Suich, J., Mawer, D., van der Woude, M., Wearmouth, D., Burns, P., Smeets, T. & Barlow, G., 27 Apr 2022, In: Journal of Medical Microbiology. 71, 4, 9 p., 001524.

### **Mapping the human genetic architecture of COVID-19**

COVID-19 Host Genetics Initiative, 16 Dec 2021, In: Nature. 600, 7889, p. 472-477 6 p.

### **Recommended antimicrobial therapy for common inpatient infections: a comparative review of guidelines across 51 hospital trusts in England**

Pan, D., Hills, G., Hamilton, A. R., Nash, T., Hine, T., Whitehorn, S. & Barlow, G., Dec 2021, In: Postgraduate medical journal. 97, 1154, p. 782-788 7 p.

### **Chest CT versus RT-PCR for the detection of COVID-19: systematic review and meta-analysis of comparative studies**

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### **Single-dose administration and the influence of the timing of the booster dose on immunogenicity and efficacy of ChAdOx1 nCoV-19 (AZD1222) vaccine: a pooled analysis of four randomised trials**

Oxford COVID Vaccine Trial Group, 6 Mar 2021, In: The Lancet. 397, 10277, p. 881-891 11 p.

### **Comparing the 4C mortality score for COVID-19 to established scores (CURB65, CRB65, qSOFA, NEWS) for respiratory infection patients**

Wellbelove, Z., Walsh, C., Perinpanathan, T., Lillie, P. & Barlow, G., Mar 2021, In: The Journal of infection. 82, 3, p. 414-451 38 p.

### **Tedizolid: a service evaluation in a large UK teaching hospital**

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### **Safety and efficacy of the ChAdOx1 nCoV-19 vaccine (AZD1222) against SARS-CoV-2: an interim analysis of four randomised controlled trials in Brazil, South Africa, and the UK**

Oxford COVID Vaccine Trial Group, 9 Jan 2021, In: The Lancet. 397, 10269, p. 99-111 13 p.

### **Outcomes and Incidence of Deep Bone Infection in Grade III Diaphyseal Open Tibial Fractures: Circular Fixator vs Intramedullary Nail**

Natalwala, I., Chuo, C. B., Shariatmadari, I., Barlow, G., Moulder, E., Bates, J. & Sharma, H., 2021, In: Strategies in trauma and limb reconstruction (Online). 16, 3, p. 161-167 7 p.

### **Consensus-based antimicrobial resistance and stewardship competencies for UK undergraduate medical students**

Keep Antibiotics Working (KAW) group, 4 Dec 2020, In: JAC-antimicrobial resistance. 2, 4, 8 p., dlaa096.

### **Defining persistent Staphylococcus aureus bacteraemia: secondary analysis of a prospective cohort study**

International Staphylococcus aureus collaboration study group and the ESCMID Study Group for Bloodstream Infections, Endocarditis and Sepsis, Dec 2020, In: Lancet Infectious Diseases. 20, 12, p. 1409-1417 9 p.

### **Characterisation of baseline microbiological and host factors in an inception cohort of people with surgical wounds healing by secondary intention reveals circulating IL-6 levels as a potential predictive biomarker of healing**

Buckley, H., Dumville, J., Hodgkinson, M., Wearmouth, D., Barlow, G., van der Woude, M., Cullum, N., Chetter, I. & Lagos, D., 19 Nov 2020, In: Wellcome Open Research. 5, 80, 10 p., 80.

### **Comparing scoring systems for prediction of mortality in patients with bloodstream infection**

Wellbelove, Z., Walsh, C., Barlow, G. D. & Lillie, P. J., 5 Nov 2020, In: QJM : monthly journal of the Association of Physicians. 114, 2, p. 105-110 6 p.

### **The impact of the COVID-19 pandemic on antimicrobial resistance: a debate**

van Duin, D., Barlow, G. & Nathwani, D., 17 Jul 2020, In: JAC-Antimicrobial Resistance. 2, 3, 2 p., dlaa053.

**Sixty-eight consecutive patients assessed for COVID-19 infection: Experience from a UK Regional infectious diseases Unit**

Easom, N., Moss, P., Barlow, G., Samson, A., Taynton, T., Adams, K., Ivan, M., Burns, P., Gajee, K., Eastick, K. & Lillie, P. J., 17 Jun 2020, In: *Influenza and Other Respiratory Viruses*. 14, 4, p. 374-379 6 p.

**Novel coronavirus disease (Covid-19): The first two patients in the UK with person to person transmission**

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**Lessons for managing high-consequence infections from first COVID-19 cases in the UK**

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**When are combinations of antibiotics clinically useful?**

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**A systematic review of the single-stage treatment of chronic osteomyelitis**

Pincher, B., Fenton, C., Jeyapalan, R., Barlow, G. & Sharma, H. K., 28 Nov 2019, In: *Journal of Orthopaedic Surgery and Research*. 14, 1, p. 393

**Escherichia coli bloodstream infection outcomes and preventability: a six-month prospective observational study**

Lillie, P. J., Johnson, G., Ivan, M., Barlow, G. D. & Moss, P. J., Oct 2019, In: *The Journal of hospital infection*. 103, 2, p. 128-133 6 p.

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**ARREST: Adjunctive Rifampicin to Reduce Early mortality from STaphylococcus aureus bacteraemia: a multi-centre, randomised, blinded, placebo controlled trial: The ARREST RCT**

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**Successful treatment of resistant Burkholderia multivorans infection in a patient with cystic fibrosis using ceftazidime/avibactam plus aztreonam**

Barlow, G. & Morice, A., 1 Aug 2018, In: *The Journal of antimicrobial chemotherapy*. 73, 8, p. 2270-2271 2 p.

**A survey of practice and opinions on the use of topical antibiotics to prevent surgical site infection: more confusion than consensus**

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**Development and impact of a massive open online course (MOOC) for antimicrobial stewardship**

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**Clinical challenges in antimicrobial resistance**

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**Adjunctive rifampicin for *Staphylococcus aureus* bacteraemia (ARREST): a multicentre, randomised, double-blind, placebo-controlled trial**  
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**Osteomyelitis of the hand**  
Pinder, R. & Barlow, G., May 2016, In: *Journal of hand surgery-British and european volume*. 41, 4, p. 431-40 10 p.

**New guidelines for prevention and management of implantable cardiac electronic device-related infection**  
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**The rising tide of bloodstream infections with *Actinomyces* species: bimicrobial infection with *Actinomyces odontolyticus* and *Escherichia coli* in an intravenous drug user**  
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**Investigation of suspected urinary tract infection in older people**  
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**A short clinical review of vaccination against measles**  
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***Staphylococcus aureus* bloodstream infection: a pooled analysis of five prospective, observational studies**  
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**Long-term mortality following bloodstream infection**  
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***Penicillium marneffei* presenting as an immune reconstitution inflammatory syndrome (IRIS) in a patient with advanced HIV**  
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**Diagnostic and prognostic biomarkers of sepsis in critical care**

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**Oral voriconazole for invasive fungal skull base infection**

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