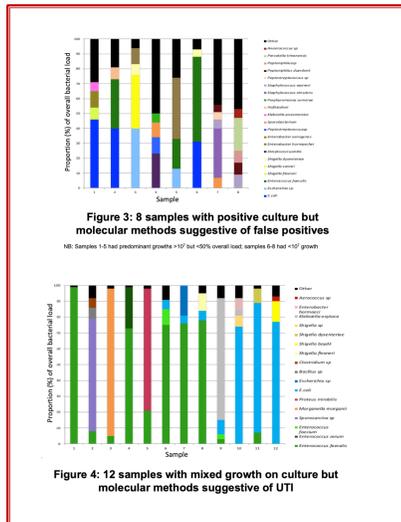


WP3: Infections and antimicrobial resistance

Our research aims to improve the **diagnosis and treatment of infections** in primary care and includes **laboratory science, big-data, and clinical trials.** For example...

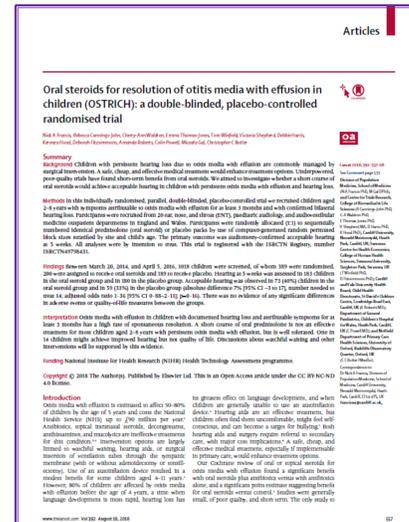
Can molecular analysis improve detection of true UTIs in children?



Is it safe to prescribe nitrofurantoin for urinary tract infection to older people with reduced kidney function?



Do oral steroids improve hearing in children with hearing loss due to otitis media with effusion?



We work closely with colleagues in the **Centre for Trials Research** and **School of Biosciences**. We collaborate with colleagues from **Public Health Wales**, **Public Health England**, **University of South Wales**, **Bristol University**, **University of Oxford**, **University of Southampton**, and **European colleagues** via the **GRIN Network** to produce multi-disciplinary, clinically relevant research.

Our current and upcoming research includes:

- **PACE** – A NIHR funded clinical trial looking at CRP point of care testing to help guide decisions about antibiotic treatment in acute exacerbations of COPD.
- **LUCI** - A Health and Care Research Wales funded big-data study looking a long-term outcomes of childhood urinary tract infections (UTI).
- **Urinary tract infection in older people** – An NIHR funded big-data study looking at incidence and antibiotic prescribing for UTI in older people.
- **MISSING LINK** – An exploratory study looking at immune markers and bacterial genomics in adult women with UTI symptoms.
- **SPATIAL** – Application submitted to the NIHR for a big-data study aiming to enable safer prescribing of antibiotics to patients using anticoagulant medications.
- **MISSOURI** – Application submitted to the BHF for a big-data study looking at the risk of heart attack and stroke after a urinary tract infection.
- **UTI Point-of-care diagnostic test development** – Application submitted to the MRC (led by University of South Wales) to develop a quick and reliable test to detect UTI in the community.