

## **MEDIA RELEASE**

### Antibiotic use in remote communities contributing to the burden of disease

21 May 2020

A study of antibiotic prescription rates for Aboriginal children in remote communities in the Northern Territory (NT) has identified high rates of infections and antibiotic use in these communities.

The study, *Antibiotic use for Australian Aboriginal children in three remote Northern Territory communities*, was recently published in the journal PLOS ONE.

Led by Menzies School of Health Research (Menzies), the study gathered antibiotic prescription data from 124 electronic health records for children aged under two years old in three remote communities in the NT, finding prescription rates to be six times higher than those reported in other studies for non-Aboriginal children in urban areas.

Lead author, Menzies' Timothy Howarth said the study addresses the data gap for how antibiotics are prescribed by remote Primary Health Centres (rPHC) identifying that for the majority of infections reported, the appropriate antibiotic had been prescribed.

"We found that by 12 months of age, 90 per cent of Aboriginal children in this study had received at least one antibiotic prescription. This is significantly higher than that reported in other studies for non-Aboriginal children. Treatment for otitis media alone, accounted for 30 per cent of prescriptions," Tim said.

"Even though the rate of prescriptions is higher we also found that the tracking of prescriptions here is significantly better than the wider Australian community – 70 per cent of prescriptions had an indication recorded which could be tracked for appropriateness and two-thirds were considered appropriate.

"When comparing this to primary care data in wider Australia, only 25 per cent of prescriptions had an indication recorded, of which one-third were considered appropriate."

Co-author and Menzies senior research fellow, Dr Thérèse Kearns said that it is critical to address the underlying determinants of health to reduce the burden of disease which underpins antibiotic prescription rates.

"A major strength of the study was the level of clinical information available within the electronic health record and that legislative requirements placed on nurses and Aboriginal Health Practitioners to supply and administer antibiotics was effective in limiting inappropriate antibiotic use in this setting," Dr Kearns said.

"However, of concern are the high rates of infection requiring antibiotic prescription within the study group which speak to the urgent need to address the underlying determinants of health impacting this data."



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The study was led by Menzies in collaboration with Sunrise Health Services Aboriginal Corporation.

The full paper can be found here.

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### **Menzies School of Health Research**

Menzies School of Health Research is one of Australia's leading medical research institutes dedicated to improving Indigenous, global and tropical health. Menzies has a history of over 30 years of scientific discovery and public health achievement. Menzies works at the frontline, joining with partners across the Asia-Pacific as well as Indigenous communities across northern and central Australia. Menzies collaborates to create new knowledge, grow local skills and find enduring solutions to problems that matter.