Background

- The appropriate treatment of diarrhoea is simple, yet it remains a problem in many low- and middle-income countries (LMICs).
- Recent reviews of diarrhoea management in children in LMICs revealed a high degree of inappropriate practice including excessive fluid curtailment and antibiotic prescribing [1-3].
- The inappropriate use of antibiotics in children with diarrhoea can result in the development of antibiotic resistance and increase the risk of subsequent diarrhoea.

Research aim

- This study was conducted to estimate the proportion of infants with acute watery diarrhoea that were treated with antibiotics in sub-Saharan Africa (SSA).

Methods

- A meta-analysis of demographic and health survey data sets from 30 countries in SSA was performed.
- Pooled estimates of the proportion of infants treated with antibiotics were determined using random effects model.

Results

- The data sets covered 9,307 infants with acute watery diarrhoea.
- Pooled proportion of antibiotic use among cases of acute watery diarrhoea in infants in SSA was 21.8% (95% CI 18.3 – 25.4).
- Regional estimates ranged from 18.0% (95% CI 12.7 – 23.4) in East Africa to 25.5% (95% CI 14.8 – 36.2) in Central Africa.

Conclusion

- This study found high use of antibiotics in the treatment of acute watery diarrhoea in infants.
- It underscores the need to educate prescribers and parents in SSA on appropriate management of diarrhoea and the consequences of inappropriate use of antibiotics in children.

References