

#### Effectiveness of a participatory radio programme on child health outcomes amongst women with children under-five in Jigawa State, Nigeria: a quasi-experimental analysis

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# **Background and Aim**

- U-5 mortality rate is high in Jigawa State, Nigeria (161/1,000 live births)
- Pneumonia and diarrhoea are leading causes of deaths
- Health Communication is critical to promote protective behaviour
- Participatory radio is a potential cost-effective and scalable intervention

**Aim:** To determine the impact of a participatory radio programme and household health volunteer visits on the coverage of preventive and protective health indicators child amongst women in rural Jigawa State, Nigeria





# **Methods**

- **Design**: Cross-sectional survey with quasiexperimental analysis
- Sample and settings: 3,343 women with children u5 from 33 clusters in Kiyawa LGA, Jigawa State, Nigeria
- Data Collection: January 10 to June 25, 2021
- Analysis: Propensity score matching (PSM) to estimate average treatment effect on the treated (ATET) for each outcome





## **Key Results**



Pneumonia Knowledge (mean score) Radio+CHV: 1.91 (SD= 1.74, ATET= 1.09, p<0.001) Radio Only: 1.33 (SD=1.47, ATET=0.54, p<0.001) CHV Only: 1.07 (SD=1.47, ATET=0.38, p<0.001) **Unexposed:** 0.67 (SD= 1.12)



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Handwashing with Soap Slight increase in radio+CHV group (ATET=0.04, p=0.213)

Exclusive Breastfeeding Slight increase in CHV only (ATET=0.04, p=0.150)

Immunization Slight increase in radio only (ATET=0.10, p=0.055)



## Conclusion

- Significant improvement in pneumonia knowledge score
- Limited impact on handwashing, exclusive breastfeeding and routine immunization
- knowledge requires more time to translate into practice
- Future intervention should include the broader system strengthening
- Further work is needed to find way to improve child health indicators still