Preserving Antibiotics through Safe Stewardship: PASS
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PASS will inform the development of multifaceted behavioural interventions that will strengthen antibiotic stewardship in community and health service settings in the UK and similar health economies and will support delivery of these interventions. This will involve three interlinked work packages:

**WP 1 – BETTER INFORMATION FOR INTERVENTION DESIGN**

**AIM:** To identify opportunities for improved stewardship across the community and healthcare settings

*Who is most likely to receive antibiotics? For which conditions? What treatment regimes are used? How appropriate are these regimes?*

**COMMUNITY**
- Bug Watch: A prospective community cohort study

**PRIMARY CARE**
- Retrospective cohort study of those registered with Clinical Practice Research Datalink practices

**NURSING HOMES**
- Descriptive analysis of routine data from >300 Four Seasons Health Care nursing homes

**HOSPITAL**
- Descriptive analysis of routine linked data from University Hospital Birmingham

**WP 2 – BEHAVIOURAL DIAGNOSIS**

**AIM:** To inform the development and selection of interventions to strengthen stewardship

*What are the barriers to and facilitators of appropriate prescribing? What are the experiences, expectations and attitudes of staff, patients and relatives? How do individual, social and contextual factors affect prescribing? What interventions have been effective?*

**INTERVIEWS**
- Cross-sectional, semi-structured interviews with healthcare professionals, healthy adults, patients, frail elderly, and relatives

**ETHNOGRAPHY**
- Observations of practice: shadowing of staff involved in prescribing; collection of local documents and guidelines

**THEMATIC EVIDENCE SYNTHESIS**
- Review of literature and qualitative thematic synthesis to identify previous behavioural interventions

**WP 3 – CO-PRODUCTION AND DISSEMINATION**

**AIM:**
1. To work with the public and healthcare practitioners to develop intervention bundles
2. To develop an online platform to support dissemination

*What is the suitability of behaviourally informed intervention bundles to different settings? How can intervention bundles best be adapted to different contexts? What online resources will best support stewardship?*

**USER CENTERED DESIGN**
- Assess prototype intervention bundles with stakeholder panels; develop interventions through co-research and -design, develop trial protocols for intervention bundles

**DEVELOPMENT OF ONLINE PORTAL**
- Develop website as an information source for patients and practitioners, a practical guide for selecting intervention bundles, and a resource for researchers to access curated evidence and data

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