Investigating the viability of a blue green prescribing strategy in the Scottish health system: research protocol

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Introduction



The healthcare sector makes a significant contribution to greenhouse gas emissions (GHG), e.g. NHS England (3% of England's total GHG emission, 21% of which from pharmaceutical acquisition) (Brown et al., 2012; Sustainable Development Commission, 2008).



Active pharmaceutical ingredients pose a serious risk to waterbodies (Kummerer, 2009).



Environment sensitive health strategies are needed to reduce pharmaceutical concentrations in the water environment without compromising population health and wellbeing, e.g. prescribing blue space interventions and eco-directed pharmaceutical prescribing (Britton et al., 2020; Daughton, 2014).

Aims & objectives

Investigate the feasibility of prescribing blue space interventions and green pharmaceuticals in selecter Scottish NHS Health Boards following the initial key steps of implementation science-based research

- Synthesise current evidence on prescribing blue space interventions and green pharmaceuticals in healthcare settings

- Develop a tool that will guide healthcare providers in prescribing blue green interventions in routine healthcare practices

Methodological approach



Implementation science



Knowledge translation



Stakeholders mapping and analysis



Exploratory mixed-methods



(viewpoints analysis)



Q-methodology



Tool guide development

Research impact

Identifies perceived barriers and enablers to key stakeholders in the adoption of a blue green prescribing strategy in NHS Scotland.

Proposes a context-based tool guide for prescribing blue space interventions and green pharmaceuticals within NHS Scotland's routine healthcare practices.



Figure 1. The Blue Green Prescribing Strategy and its impact on related Sustainable Development Goals (SDGs)



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