

Research Proposal Form

MSc Public Health and Social Care in Practice Dissertation (CHS7004)

Fill in this form after discussions with your tutor.

The information will be formally submitted to your supervisor for approval.

Student Name	Student ID
Sana Firoz Haji	2242231

**Please adapt the text boxes accordingly*

Proposed Research Topic:

**Antimicrobial Resistance in healthcare
Review of *Staphylococcus aureus***

Research question: What are the needs to come up with AMR and What are the precautions and interventions regarding AMR for younger population in the UK

Research methodology: Research Methodology applies will be Systematic review.

A brief overview (14-20 sentences, including 5 references)

Please provide a brief overview of the topic you intend to research in a lay public language, that is for a non-scientific audience:

Antimicrobial resistance causes nearly 6 million deaths in 2021 (Pulingam, *et al.*, 2022).

Hospital and community acquired *Staphylococcus aureus* infections pose a substantial burden in terms of morbidity, mortality and healthcare costs (Murray, *et al.*, 2022)

Policy Interventions and global cooperations are essential for implementing effective measures against AMR and preserving efficiency of existing antibiotics and antimicrobials

AMR addressing requires a multidisciplinary approach, involving healthcare practices and public awareness to ensure the sustainable use of specific antibiotics against specific pathogen. Overall combating AMR requires a comprehensive & antimicrobial coordinated approach at local, national and international levels.

Understanding the concept of resistance development and transfer will immensely help in curtailing the global rise in antimicrobial resistance in bacteria followed by the introduction of treatment against this pathogens
(Laxminarayan, 2022)

Lancet report: Antibiotic resistance leading cause of death. Available at: <https://www.twn.my/title2/health.info/2022/hi220113.htm> (Accessed: 01 November 2023).

Laxminarayan, R., 2022. The overlooked pandemic of antimicrobial resistance. *The Lancet*, 399(10325), pp.606-607

Mestrovic, T., Aguilar, G.R., Swetschinski, L.R., Ikuta, K.S., Gray, A.P., Weaver, N.D., Han, C., Wool, E.E., Hayoon, A.G., Hay, S.I. and Dolecek, C., 2022. The burden of bacterial antimicrobial resistance in the WHO European region in 2019: A cross-country systematic analysis. *The Lancet Public Health*, 7(11), pp.e897-e913.

Mikłasińska-Majdanik, M., Kępa, M., Wojtyczka, R.D., Idzik, D. and Wąsik, T.J., 2018. Phenolic compounds diminish antibiotic resistance of *Staphylococcus aureus* clinical strains. *International journal of environmental research and public health*, 15(10), p. 2321.

Aim (a broad statement capturing the overall purpose of this research)

Please provide the aim of the topic you intend to research:

The Aim of the study is to review and Critical evaluate the current Research developments of healthcare settings to fight against AMR (antimicrobial Resistant)

Objectives (outline 3-5 using bullet points)

Please provide the objectives of the intended

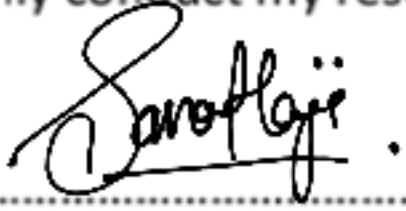
To Compare the effective management practices and policies of UK health entities which contain and control AMR taking account the global initiatives for same .

To Review the historical development of resistance development

To measure the effectiveness of AMR 5 year National Action plan (NAP) to contain and control AMR by the upcoming year 2040

Ethical considerations (indicate ethical issues that are relevant to your research)



<i>Collecting primary data from human participants requires you to address these issues.</i> <i>Using primary data sources still requires how you will address these issues.</i>	N/A
I will submit my research proposal and the UWTSD ethics form to my supervisor to receive ethical approval.	Yes
I will develop a research information letter and consent form to be handed to each participant.	N/A
Voluntary informed Consent will be asked of each participant:	N/A
I will ensure participants will not be subjected to coercion, intimidation, and undue influence to participate in this research.	N/A
I will ensure participants will be informed they have the right to withdraw and their data from this research.	N/A
I will ensure to store the obtained signed consent forms securely and anonymously.	N/A
I will ensure the collected data will be protected and stored securely and deleted after ending this study program.	yes
I confirm that I have discussed and agreed every section of this form with my supervisor and will only conduct my research in line with what has been agreed in this document	yes
Signature..... 	
Date:.....4/1/2024.....	
<u>Supervisor:</u>	
Signature.....	Date:.....
<u>Appendix:</u>	
A Participant research information form	
B Consent form	
C List of Questions / Interview schedule	

Reference List add here below

1)

Naylor, N.R., Atun, R., Zhu, N., Kulasabanathan, K., Silva, S., Chatterjee, A., Knight, G.M. and Robotham, J., 2022. Global burden of antimicrobial resistance: a systematic literature review. *Antimicrobial Resistance & Infection Control*,

2) Murray, C.J., Ikuta, K.S., Sharara, F., Swetschinski, L., Aguilar, G.R., Gray, A., Han, C., Bisignano, C., Rao, P., Wool, E. and Johnson, S.C., 2022. Global burden of bacterial antimicrobial resistance in 2019: a systematic analysis. *The Lancet*, 399(10325), pp.629-655.

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