

THE MOULD THAT CHANGED THE WORLD

- a primary school musical about antimicrobial resistance



Meghan R. Perry^{1,2,3}, Jennifer Hall³, Michael Corley⁴, Carlyne Horner⁴, Tracey Guise⁴, Robin Hiley⁵
¹Centre for Immunity, Infection and Evolution, University of Edinburgh, ²Centre for Inflammation Research, University of Edinburgh, ³Regional Infectious Diseases Unit, Western General Hospital, Edinburgh, ⁴British Society of Antimicrobial Chemotherapy, Birmingham, ⁵Charades Theatre Company, Edinburgh

INTRODUCTION

- Theatre is an effective medium for the dissemination of important public health messages.
- The AMR message of the fragile future of antibiotics needs to rapidly reach all corners of society.
- This intervention targeting primary schools will impact the performing child, the entire school community and three generations; siblings, parents and grandparents.
- This project aims to change knowledge, attitude and approach to antibiotics in performers and their audience and inspire a new generation of scientists.

FORMAT OF THE MUSICAL

- The audience are cast as United Nations delegates and invited to follow the history of antibiotics through Fleming's life and beyond to the modern day.
- The show spans the 2 World Wars and personifies the bacteria causing the infectious diseases that dramatically raised the death tolls during the conflicts.
- Aimed up upper primary school level, there are solo roles and then each year group takes on character groups so all pupils are involved in the immersive educational experience:
 - Group A – Bacteria
 - Group B – Soldiers and doctors
 - Group C – Scientists and patients

THE MOULD THAT CHANGED THE WORLD

Scene 1 - Infectious Disease WWI

The Soldiers - Fleming

Scene 2 - You All Fall Down

The Bacteria - Plague, Staph

Scene 2.1 Infectious Disease Reprise

The Bacteria, Plague, Staph

Scene 2.2 - The Discovery

Fleming, Pryce

Scene 3 - Let's Clean!

The Scientists - Fleming

Scene 3.1 - The Lancet

Fleming, Pryce, Florey, Chain

Scene 4 - The New Wonder Drug, WWII

The Soldiers, The Bacteria

Scene 5 - The Nobel Prize

The Scientists, The Soldiers - Fleming, Florey, Chain

Scene 6 - Wonder, non-toxic, antibiotic drugs

The Scientists - Fleming

Scene 7 - We Want The Cures

The Doctors, The Patients, The Bacteria - Fleming

Scene 7.1 You All Fall Down Reprise

The Bacteria, Plague

Scene 8 - United Nations General Assembly

Tutti



IMPLEMENTATION

- High profile premieres in Edinburgh and London, June 2018
- Musical freely available to >15000 primary schools in UK, June 2018 via web resources including:
 - soundtrack
 - lyrics
 - performance notes
 - videos of a director and actors rehearsing each scene
- Aim to initially recruit 90 schools in 2018 for Fleming's 90th anniversary of discovery of penicillin
- British Society of Antimicrobial Chemotherapy facilitation of infectious diseases and microbiology doctors Q & A in schools
- Professional production at Edinburgh Fringe Festival 2018

PRIMARY SCHOOL CURRICULUM

EXPRESSIVE ARTS

- Experience the energy and excitement of performing
- Practise and perform dance
- Create character through voice, movement and language
- Expressive and imaginative performances of vocal music

SCIENCES

- Understanding of the big ideas and concepts
- Recognise the role of creativity and inventiveness in the development of the sciences
- Recognise the impact of the sciences lives, the lives of others, the environment and on society

LITERACY

- Exploring events and characters in stories

SOCIAL STUDIES

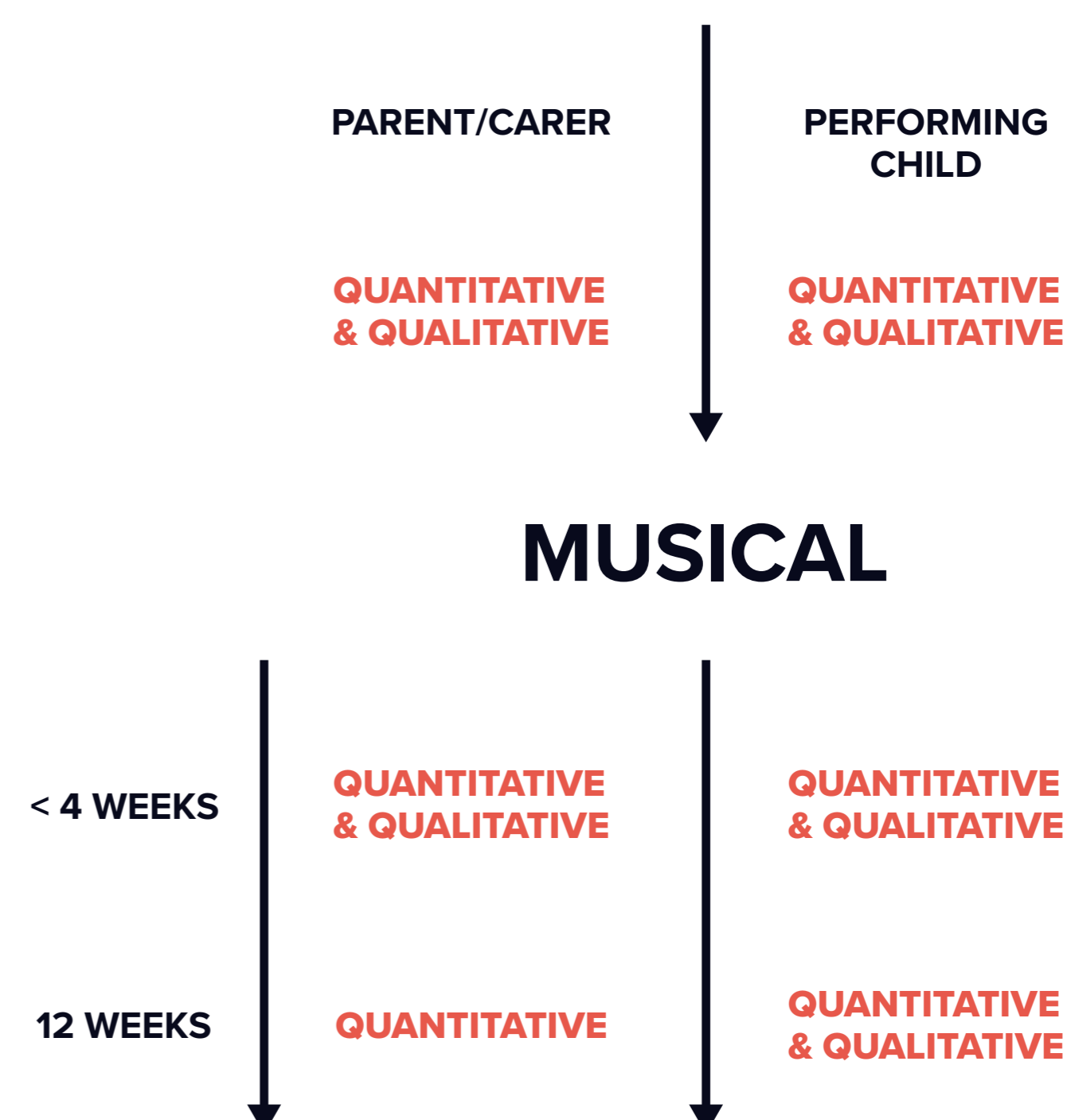
- History, heritage and culture of the United Kingdom
- Human activities and achievements

HEALTH AND WELLBEING

- Understanding responsibilities of citizenship
- Understanding of the human body to maintain and improve my health
- Establish a pattern of health and wellbeing which will be sustained into adult life

EVALUATION OF THE MUSICAL AS AN INTERVENTION

- Series of surveys and qualitative interviews



THE MOULD THAT CHANGED THE WORLD

will be a powerful educational and public engagement tool to combat the AMR crisis

If you would like to hear more or involve your local primary school please visit www.mouldthatchangedtheworld.com or email mcorley@bsac.org.uk

Acknowledgements – Thank you to Neil Watson of WATSONDESIGN. for graphic design.