

The poster is a comprehensive project presentation for 'PARAMEDI'. It includes sections on team members, challenges, methodology, and clinical trials. Key features include:

- Team Members and Roles:** Enara Wimalananda (Biology, Chemistry, Maths, Further Maths) - Lead researcher; Marwa Hassan (Biology, Chemistry, Maths, Design Technology) - Graphic Designer: Poster design, illustrations; Florence Bruce (Biology, Chemistry, Economics) Financial analyst, researcher; Kiera Marks (Biology, Chemistry, Maths, Religious Studies) Co-graphic designer, researcher; Athena Martin (Biology, Chemistry, Psychology) Ethicist, researcher.
- References:** A QR code linking to project resources.
- CHALLENGES AFFORDABILITY:** Discusses insulin market dominance by 3 companies (Eli Lilly, Novo Nordisk, Sanofi), high costs of insulin inhalers (e.g., \$271 for 90 units), and the lack of demand for R-biologics.
- WHY DIABETES IN AREAS OF CONFLICT?** Explains the challenges of diabetes management in conflict zones, including food insecurity, lack of access to medications, and the destruction of insulin-producing beta cells.
- INTRODUCTION WHAT IS TYPE 1 DIABETES?** Provides a brief overview of Type 1 diabetes, its symptoms, and global prevalence.
- WHAT HAPPENS WHEN TYPE 1 DIABETES IS LEFT UNTREATED?** Details the progression of untreated diabetes, leading to ketoacidosis (DKA) and potential mortality.
- WHY WE'VE CHOSEN A PARACHUTE:** Outlines the challenges of insulin transportation in conflict zones, including cold chain requirements and the use of drones.
- OUR PRODUCT AND SOLUTION:** Describes the 'Keep it Cool Box' solution, which uses expanded polystyrene (EPS) boxes to store insulin vials and inhalers, and includes a 'Keep it Cool Box' for transport.
- STORAGE:** Discusses the storage of insulin in refrigerators and the development of the 'Zeer-pot' refrigerator.
- CLINICAL TRIALS:** Details the proposed clinical trial for R-biologics, involving healthy volunteers, type 1 diabetes patients, and a double-blind test comparing the new model to existing ones.
- METHODOLOGY:** Information was gathered through online resources like PubMed and the NHS.
- Medical Ethics:** Addresses efficacy, patient satisfaction, and safety concerns.