MAKEAWARE x Spearhead

To test the efficacy of antibiotics on specific bacteria, scientists in the laboratory position antibiotic pills in a transparent lidded dish (called Petri) covered by bacteria. After some cultivation hours, it is possible to observe the efficacy of antibiotics that prevent bacteria growing. The higher the antibiotic efficacy, the less the bacteria spread, leaving an empty space around the pill. On the other hand, the smaller that area, the higher the resistance development. The use and misuse of antibiotics is one of the leading causes of resistance development. Consuming antibiotics responsibly helps preserve their efficacy.

DipLab - Digital Petry Laboratory /Patient 's Dossier

Patient code: 68996

Age: 45

Disease: Infected burns

Bacterium: Staphylococcus aereus

Drug allergies: Ø Trimethoprim

Medical history:

Patient, 45, with infected burns, Staphylococcus aureus identified. Allergic to Trimethoprim. Burns acquired from a kitchen accident, initially treated at home, later showing signs of infection: redness, swelling, pus. Urgent need for an antibiogram to determine effective antibiotics.

Lab signature:

Bacterium: Staphylococcus aereus

Acronym	Zone Diameter Breakpoints (mm)		- Antibiotic name	Diameter size (mm)	Diameter category
	Sensitive≥	Resistant <	A IUDIOUC I Idi I IC		(Sensitive/Resistant)
AM2	18	18	Ampicillin		
OX1	20	20	Oxacillin		
CR5	20	17	Ceftaroline		
NX10	17	17	Norfloxacin		
AK30	15	15	Amikacin		
GT10	18	18	Gentamicin		
TY10	18	18	Tobramycin		
EY15	21	21	Erythromycin		
CD2	22	22	Clindamycin		
EC20	20	20	Eravacycline		
TE30	22	22	Tetracycline		
TG15	19	19	Tigecycline		
LZ10	21	21	Linezolid		
TD2	20	20	Tedizolid		
TTH5	14	14	Trimethoprim		