CDL CES 2023
MEDICAL MICROBIOLOGY LABORATORY PERSPECTIVE: *CHALLENGES FROM RECEIPT TO REPORT*

FADZILAH MOHD NOR @ GHAZALI

MD (UNIMAS), MPATH (MED.MICROBIOLOGY)(UM), INFECTIONS IN IMMUNOCOMPROMISED HOSTS & HIV (SYDPATH, NSW,AUSTRALIA)

17TH FEB 2023

fadzi456@uitm.edu.my

OUTLINE

- Learning outcome
- Background (Roles of Medical Microbiology & Parasitology, MMP Laboratory)
- Specimen to laboratory report process
- Issues/problems identified from MMP laboratory
- Proposed remedies/solutions

LEARNING OUTCOME

At the end of the CES, the participants should be able to:

- outline the issues/challenges identified from MMP lab.
- describe the possible solutions in each of the phases of specimen testing.

ROLES OF CDL MMP LABORATORY

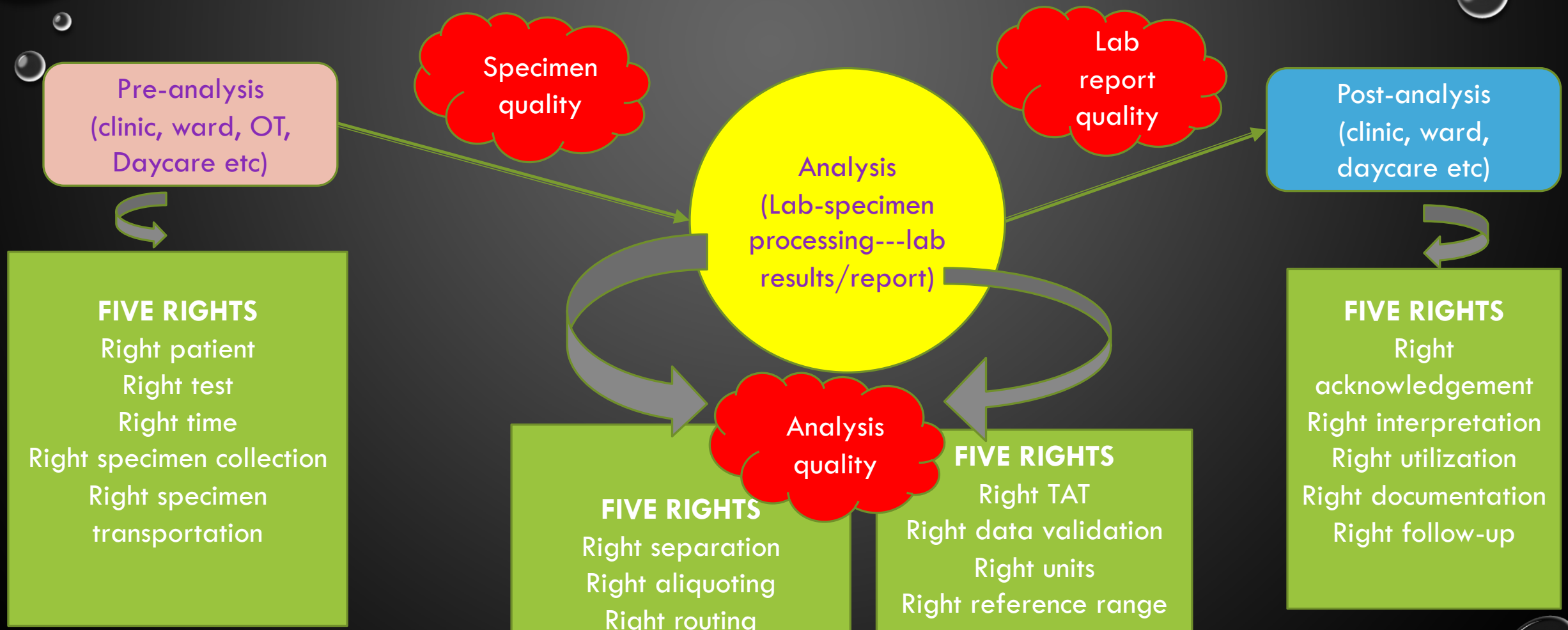
TWO (2) main functions:

Provision of laboratory diagnosis of infection (bacteriology, virology, mycology, immunology & parasitology) in individual patient, directly related to the patient care.

Provision of support to the HAI prevention and control (AMS, antimicrobial surveillance, MRSA screening, infection control protocol etc.

NB: the first role :diagnosis of infection - has also a function in HAI prevention

SPECIMEN----LABORATORY REPORT



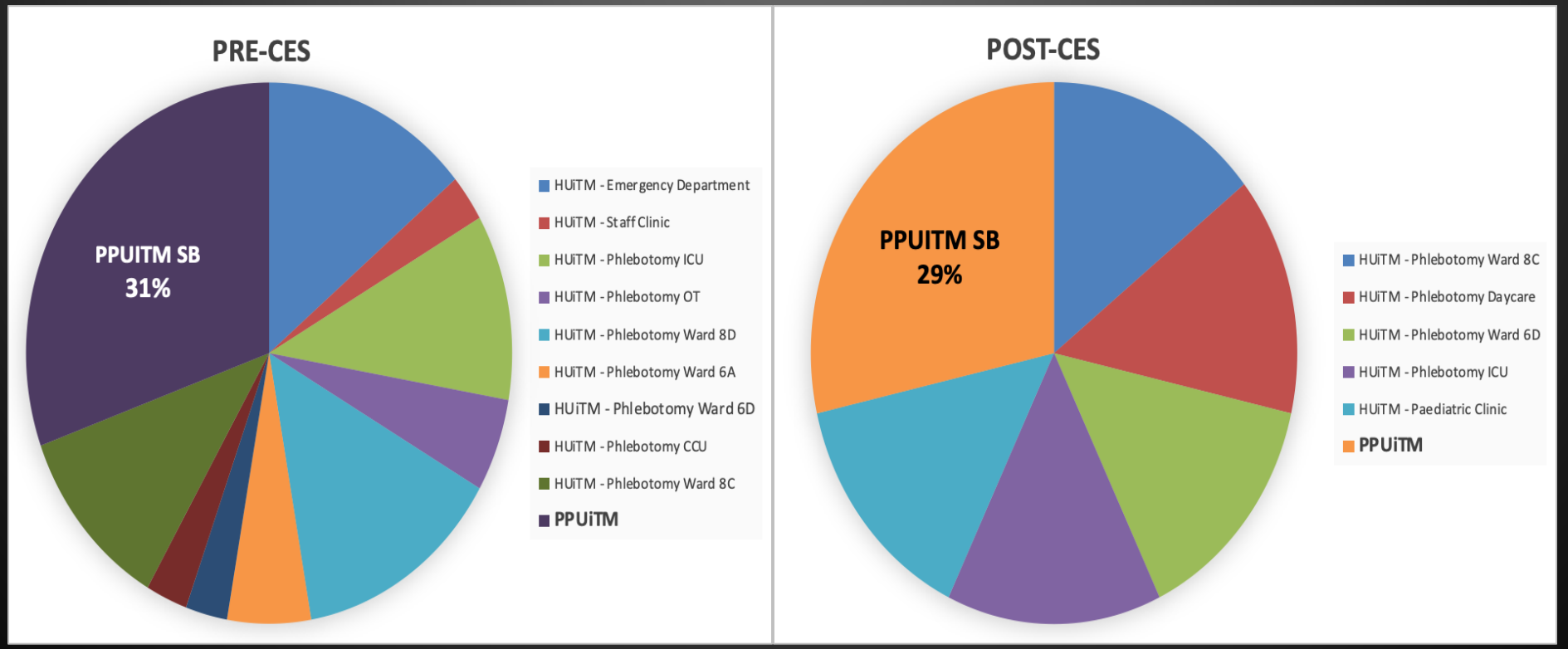
ARISING ISSUES FROM MMP LAB

NO	PHASES	ISSUES
1	Pre-analysis	Requester is different with the staff that collect the specimen.
2	Pre-analysis	Requester to label/specify the labelling e.g: red lumen, blue lumen, PICC.
3	Pre-analysis	Requester to specify correct location eg: specimen collected in the OT, report should be send from lab to OT? Ward? Clinic?
4	Pre-analysis	Laboratory becomes the place for ward/clinic to ask info on billing.
5	Post-analysis	Amended report: AMENDED- requester need to be aware.
6	Post-analysis	AST: SDD current, no more intermediate 'I' section: Please read the comments- requester need to be aware.
7	Post-analysis	Laboratory become 'info counter': How to see report from LIS.

MAIN CAUSES OF SPECIMEN REJECTION FROM MMP LAB JAN-DEC 2022

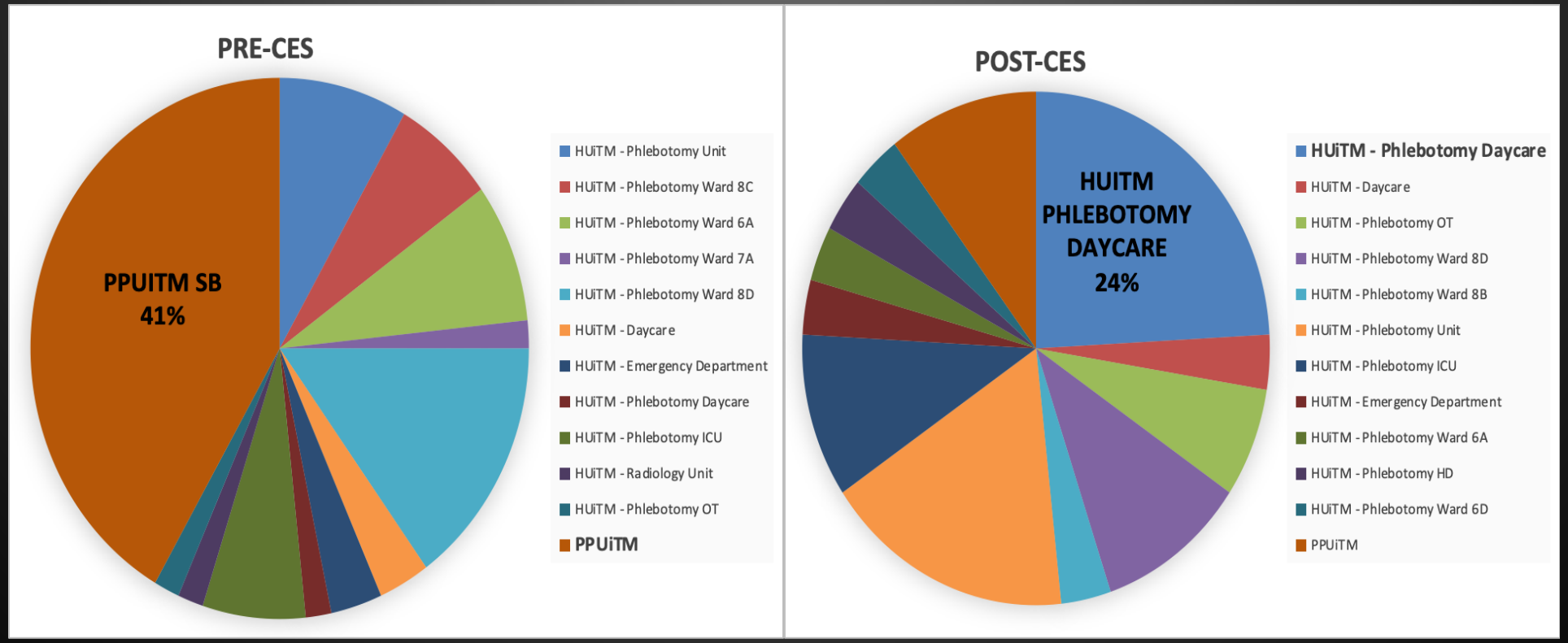
NO	CAUSES	EXAMPLE
1	Specimen not received	Request form & biohazard bag are available, but no specimen in the biohazard bag.
2	Wrong test ordered by the requester	The requester would like to test for RPR, however ordered TPPA/TPHA test instead.
3	Repetitive order	Sputum C&S, Blood C&S etc ordered 2-3x in a day
4	Improper specimen collection	Formalin was added into Tissue C&S.

PERCENTAGE OF REJECTION (ACC. TO REQUESTERS) IN MMP UNIT



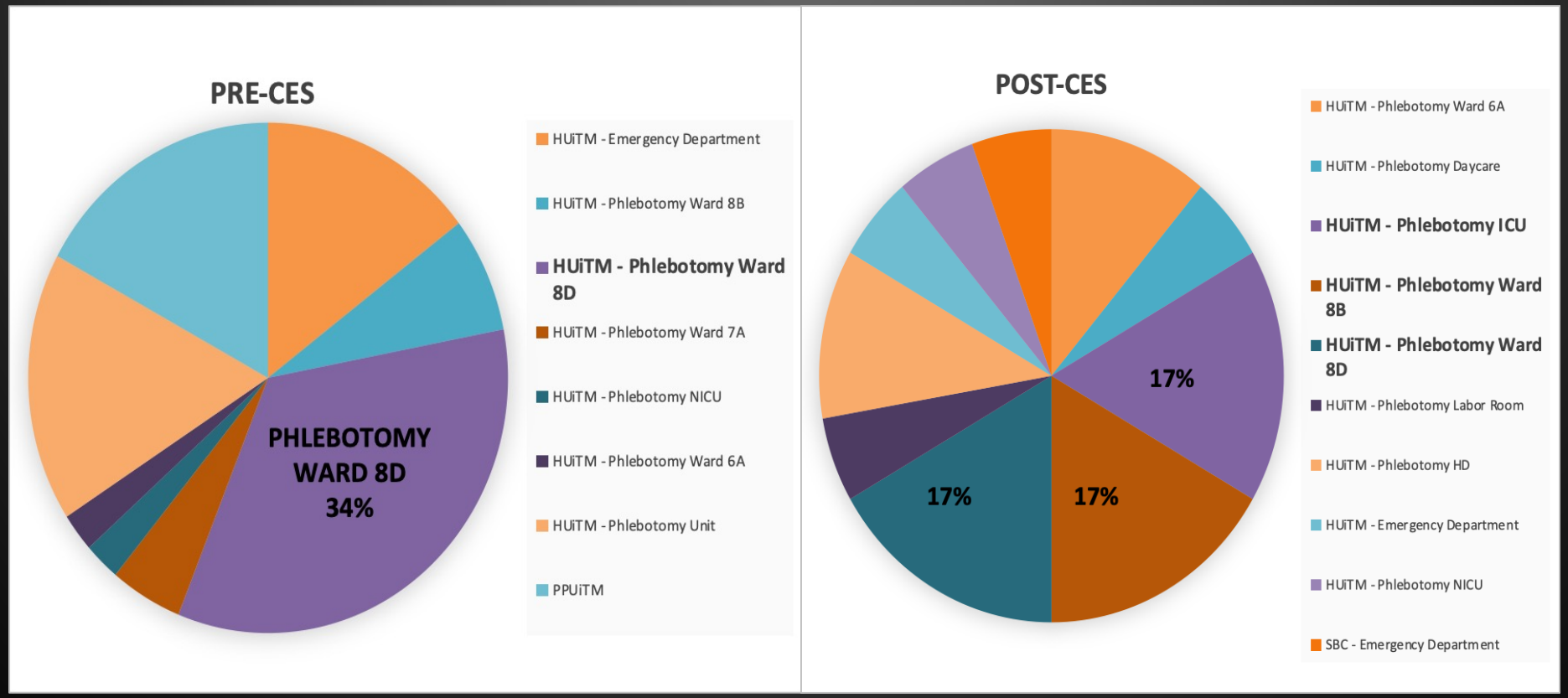
CRITERIA: SPECIMEN NOT RECEIVED

PERCENTAGE OF REJECTION (ACC. TO REQUESTERS) IN MMP UNIT



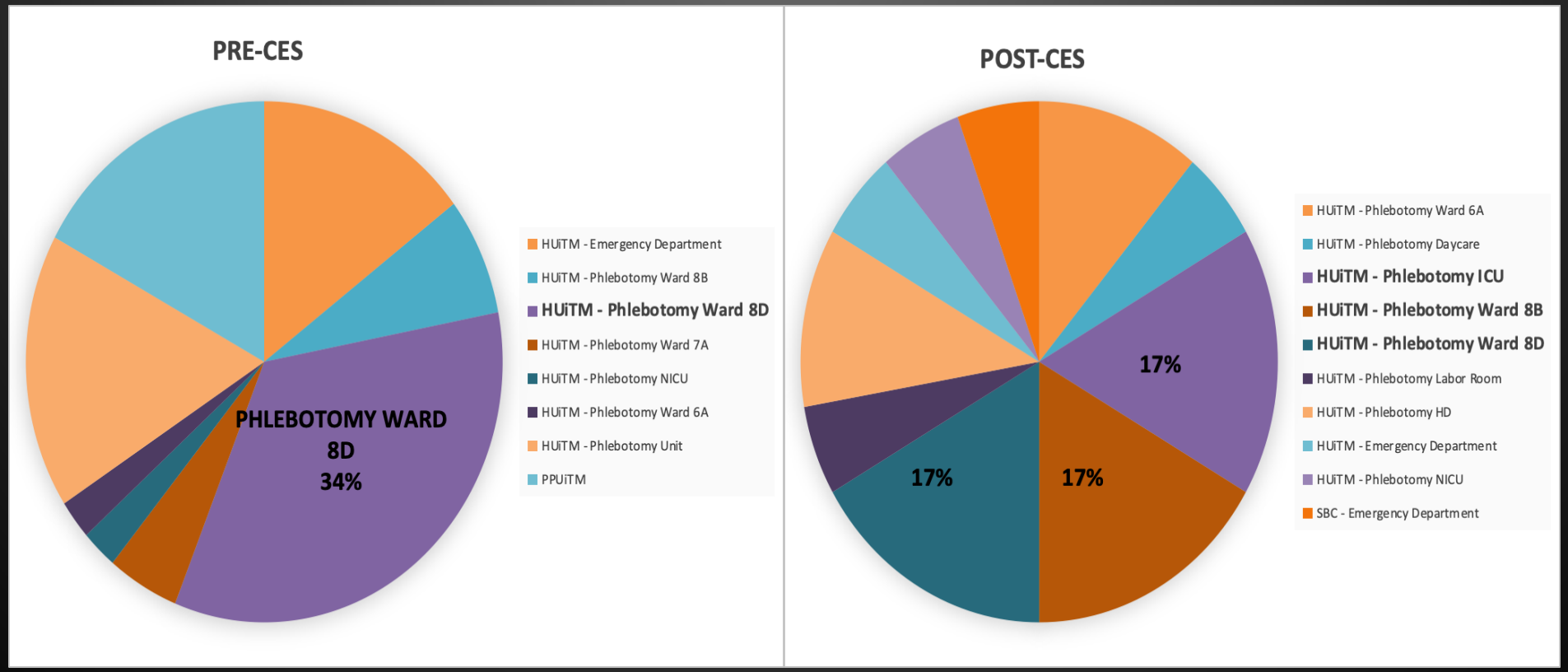
CRITERIA: WRONG TEST ORDERED

PERCENTAGE OF REJECTION (ACC. TO REQUESTERS) IN MMP UNIT



CRITERIA: REPETITIVE ORDER

PERCENTAGE OF REJECTION (ACC. TO REQUESTERS) IN MMP UNIT



CRITERIA: IMPROPER SPECIMEN COLLECTION

PROPOSED SOLUTIONS

IDENTIFIED ISSUES	PROPOSED SOLUTIONS
Requester is different with the staff that collect the specimen.	Good conduct of practice: medicolegal.
Requester to label/specify the labelling e.g: red lumen, blue lumen, PICC.	Drop down menu in the LIS is readily available.
Requester to specify correct location eg: specimen collected in the OT, report should be send from lab to OT? Ward? Clinic?	Good conduct of practice: patient care & safety, medicolegal.
Laboratory becomes the place for ward/clinic to ask info on billing.	Test price is readily available in 'Bursary unit/Billing unit', HASA.
Amended report: AMENDED- requester need to be aware, AST: SDD current, no more intermediate 'I' section: Please read the comments- requester need to be aware.	Good conduct of practice: **Right utilization,** please read the report, interpret according to the patient's clinical history and findings. TREAT the patient not the RESULT/REPORT.
Laboratory become 'info counter': How to see report from LIS?	Obtain assistance from senior staffs/sister/matron NOT LAB, provide the steps (flowchart) and paste it near the desktop.
Wrong test & improper specimen collection.	Refer to CDL Handbook: https://hospital.uitm.edu.my/images/departments/clinical/pathology/download/2021-cdl-handbook-v11oct_amended-1-june-2022-13.6-2022.pdf

QUIZ

The following are the specimen rights at the pre-analysis phase **EXCEPT** :

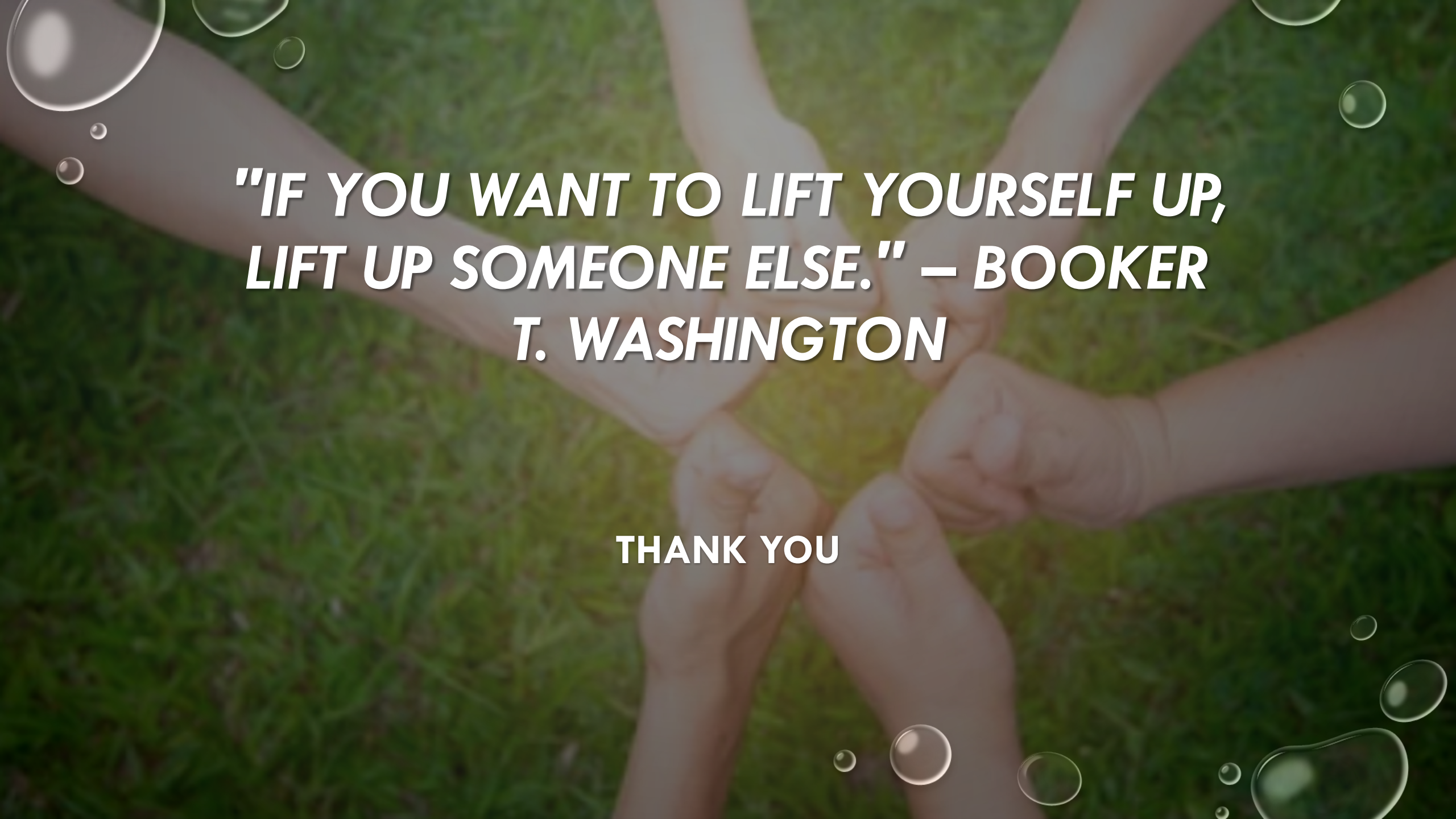
A: Right patient.

B: Right time.

C: Right specimen collection.

D: Right utilization.

E: Right test .


"IF YOU WANT TO LIFT YOURSELF UP, LIFT UP SOMEONE ELSE." – BOOKER T. WASHINGTON
THANK YOU