

AFRICA HEALTH 2019

6th Decontamination & Sterilisation
(CSSD) Conference

‘EMBRACING THE HERE AND NOW’

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Session 6:
WHAT ARE WE TEACHING?
**THE ROLE CSSD PLAYS IN
THEATRE STUDENTS'
INDUCTION**

IN THIS SESSION

- Introduction
- Question and Rationale
- Data collection method
- Analysis
- Findings
- Conclusion

QUESTION

Do students experience their first rotation in theatre in CSSD as valuable as how we as educators intended it to be?

EDUCATORS' RATIONALE

1. Safe learning experience
2. Aseptic technique principles
3. Infection prevention and control principles
4. Flow of processes
5. Cost awareness
6. Knowledge of sets and instrument specifics

EDUCATORS' RATIONALE

1. Safe learning experience:

- Specific designated working areas – structured
- Clear policies and procedures
- Fewer personnel – not overwhelmed by a lot of new faces
- Structures hours – 6-8 hours per day, ease them into 12 hour shifts, standing on feet whole day, finalize travel arrangements

RATIONALE CONT.

2. Aseptic technique principles

- Hand-hygiene
- Specific way of wrapping packs to facilitate sterile opening of content
- Storage specifications
- Knowledge regarding sterile process indicators and processes

RATIONALE CONT.

3. Infection prevention and control principles:

- Standard precautions
- Personal Protective Equipment (PPE)
- Decontamination techniques and processes
- Different waste management techniques

RATIONALE CONT.

4. Flow of processes:

- Time it takes for each part of the process to be completed
- Management of Loan Sets

5. Cost awareness:

- Broken or lost equipment/ items
- Replacement items

RATIONALE CONT.

6. Knowledge of sets and instrument specifics:

- Care and checking of instruments (proper functioning)
- Identification of instruments
- What is being kept where
- Hands-on experience – assembling and disassembling of equipment (troubleshooting)

QUESTION

Do students experience their first rotation in theatre in CSSD as valuable as how we as educators intended it to be?

REFLECTIVE PRACTICE

HISTORY & BACKGROUND:

- 20th century – John Dewey
- Following – Kurt Lewin, Jean Piaget
- Central to the development:
 - Integration of theory and practice
 - Conscious application of lessons learned from experience
- 1983 – Donald Schön's book – *The Reflective Practitioner*
 - Types of Reflective Practice

REFLECTIVE PRACTICE

WHAT:

- Is the ability to reflect on an action;
- To engage in a process of continuous learning;
- This leads to developmental insight.

REFLECTIVE PRACTICE

RATIONALE:

- Experience alone does not necessarily lead to learning;
- Deliberate reflection on experience is essential.

REFLECTIVE PRACTICE

Why is reflective practice important?

“The most distinctive of these very good teachers is that their practice is the result of careful reflection. They themselves learn lessons each time they teach, evaluating what they do and using these self-critical evaluations to adjust what they do next time.” **Why Colleges Succeed, Ofsted 2004, para. 19**

REFLECTIVE PRACTICE

WHY?

“As a result of your reflection you might decide to do something in a different way, or you may just decide that what you are doing is the best way. And that is what professional development is all about.” (Tice, 2004)

POPULATION

Diploma in Operating Department Assistance (ODA) students in their 3rd year of training

- Rotated through CSSD for 3 weeks in 1st year
- One week in 2nd year
- Nothing in 3rd year
- 6 respondents from 4 different facilities

DATA COLLECTION METHOD

- Reflective questionnaire:
 - Open-ended questions
 - Not mentioning our reasons
 - Wanted to see what students felt/ experienced

- Comparative data analysis
 - Educators' rationale vs. Students' reflection findings

REFLECTIVE QUESTIONNAIRE

<i>Think back to your rotation in CSSD and answer the following questions:</i>	
1.	What do you remember from your first day in CSSD ? How did you feel? What did you experience?
2.	How did you experience the whole rotation in CSSD ? What experiences will you remember?
3.	How did you experience the staff in CSSD ?
4.	Was it valuable to rotate through CSSD ? What did you learn? Motivate your answer please.

DATA ANALYSIS TOOL

Educators' rationale: Students' reflections	First day in CSSD	Rotation through CSSD	CSSD Staff	CSSD rotation value	CSSD Rotation timing	Still using now?	Role of CSSD	TOTAL
1. Safe learning experience								
Specific designated working areas - structured								
Clear policies & procedures								
Fewer personnel - not overwhelmed by a lot of new faces								
Structured hours - 6-8 hours per day, ease them into 12h shifts								
2. Aseptic technique principles								
Hand-hygiene								
Specific way of wrapping packs to facilitate sterile opening of content								
Storage specifications								
Knowledge regarding sterile process indicators and processes								
3. Infection prevention and control principles								
Standard precautions								
PPE								
Decontamination techniques and processes								
Different waste management techniques								
4. Flow of processes								
Time it takes for each part of the process to be completed								
Management of Loan Sets								
5. Cost awareness								
Broken or lost equipment/ items								
Replacement items								
6. Knowledge of sets and instrument specifics								
Care and checking of instruments (proper functioning)								
Identification of instruments								
What is being kept where								
Hands-on experience - assembling and disassembling of equipment (Troubleshooting)								
7. Other (Identified by students - not mentioned above)								

FIRST DAY IN CSSD AS 1ST YEAR STUDENT

1. Attitude of CSSD staff:

“People was very helpful, caring and relaxed.”

2. Assisting with orientation:

“They showed me all the areas, equipment and they explained how it works, what gets done where and why.”

3. Student emotions:

“Felt anxious, but also excited to learn the instruments.”

ROTATION THROUGH CSSD

DURING 1ST YEAR

1. Future value:

“Rotation in CSSD is a must. You get to understand the whole wash, clean, disinfection, autoclave parts better. Also the importance of CSSD and their members. It is also the best place to learn about sets and instrumentation.”

2. Knowledge gained:

“I learned all the instruments and all about the importance of sterility and all the indicators and tests used and all the factors that can affect the sterility and shelf-life of packs.”

EXPERIENCE OF CSSD STAFF AS 1ST YEAR STUDENT

1. Sharing experience and knowledge:

“They are hardworking and has a great instrument knowledge.”

2. Creating a safe learning environment:

“It was the place where I felt comfortable for the first time since starting the course.”

“They set a nice and comfortable and safe environment to learn.”

CSSD ROTATION VALUE AS 1ST YEAR STUDENT

1. Process knowledge and understanding:

“If you do not know the process of which your instruments get washed, sterilized and packed, and the time it takes, you could struggle with large list if you are not prepared.”

2. Sterile principles:

“Learned about sterility, how to check if it is sterile, how to ensure it stays sterile and the process to get it there. I will need all of this going through my 2nd and 3rd year and always.”

CSSD ROTATION TIMING AS 1ST YEAR STUDENT

- “It helped to rotate through CSSD first as you have a better idea and understanding of the sets/instruments and where to find them.”
- “As a circulator you have to check instruments with scrub sister and knowing them made it quicker when circulating.”
- “I have to help with the preparing of theatre as a circulator, which includes checking if all the sets and packs are still sterile – CSSD taught me how to do this.”

REFLECTION AS 3RD YEAR STUDENT

- “How to dismantle a trolley safely with precautions (PPE).”
- “They taught me to always check the instruments for cleanliness and the condition of instruments to prevent complications during procedures.”
- “Autoclave time – wash and back sets.”
- “I still make use of how to pack my instrument tray – keeping it organized during a procedure according to how it is packed in CSSD and on the checklist.”

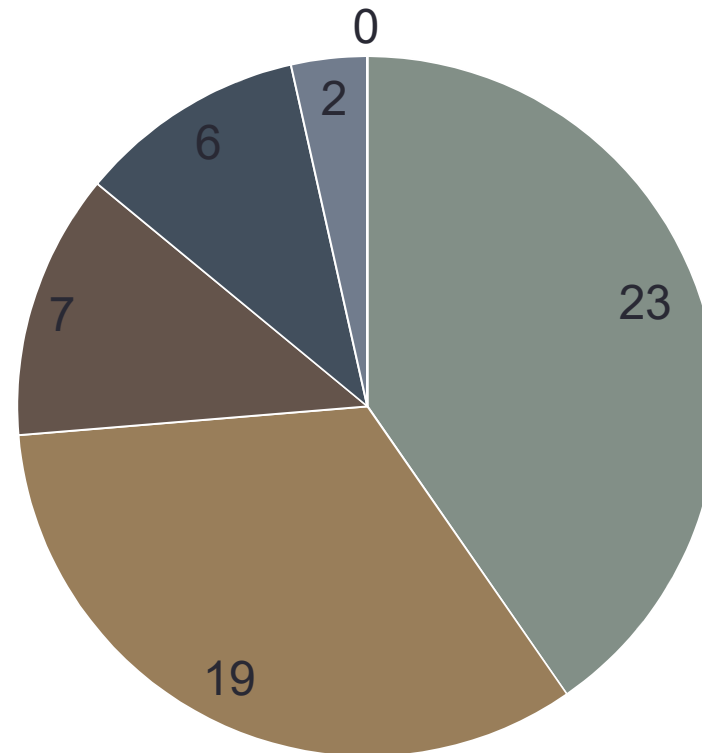
DATA ANALYSIS

Educators' rationale: Students' reflections	First day in CSSD	Rotation through CSSD	CSSD Staff	CSSD rotation value	CSSD Rotation timing	Still using now?	Role of CSSD	TOTAL	
1. Safe learning experience									
Specific designated working areas - structured	2	1						3	7
Clear policies & procedures	1	1						2	
Fewer personnel - not overwhelmed by a lot of new faces			2					2	
Structured hours - 6-8 hours per day, ease them into 12h shifts									
2. Aseptic technique principles									
Hand-hygiene									19
Specific way of wrapping packs to facilitate sterile opening of content		2		1	1			4	
Storage specifications		1		1		3		5	
Knowledge regarding sterile process indicators and processes		2		3	1	4		10	
3. Infection prevention and control principles									
Standard precautions									2
PPE						1		1	
Decontamination techniques and processes						1		1	
Different waste management techniques									
4. Flow of processes							1	1	
Time it takes for each part of the process to be completed				2	1	1		4	6
Management of Loan Sets				1				1	
5. Cost awareness									
Broken or lost equipment/ items									-
Replacement items									
6. Knowledge of sets and instrument specifics									
Care and checking of instruments (proper functioning)				1		3		4	23
Identification of instruments		3		3	4	1	1	12	
What is being kept where					3	2		5	
Hands-on experience - assembling and disassembling of equipment (Troubleshooting)		1		1				2	
7. Other (Identified by students - not mentioned above)									
Staff attitude (helpful, caring, relaxed, receptive, warm, welcomed, liked me, friendly, hard-working, great knowledge, willing to teach)	4		6					10	
Student emotions (overwhelmed, strange to not know, lot to memorise, anxious, excited)	4	1			2		1	8	
Organized way of packing sets						1		1	

FINDINGS

Educators' rationale: Number of Students' responses

- Knowledge of sets and instrument specifics
- Aseptic technique principles
- Safe learning experience
- Flow of processes
- Infection prevention and control principles
- Cost awareness



CONCLUSION

As seen from the ample examples taken from the students' feedback:

- Confirmed our rationale for placing students in CSSD first
- Learned a few more things that we did not think about:
 - Value of having circulating and anaesthetic personnel rotate through CSSD
 - Effect of CSSD staff attitudes on students' emotions

CONCLUSION CONT.

Going forward:

- Change our way we manage other theatre courses – even just one day in CSSD will be valuable
- Re-iterate the important aspects linked to cost awareness earlier on in formal courses
- Point out the structured, organized way CSSD works so that students pick up on it and mimic their actions

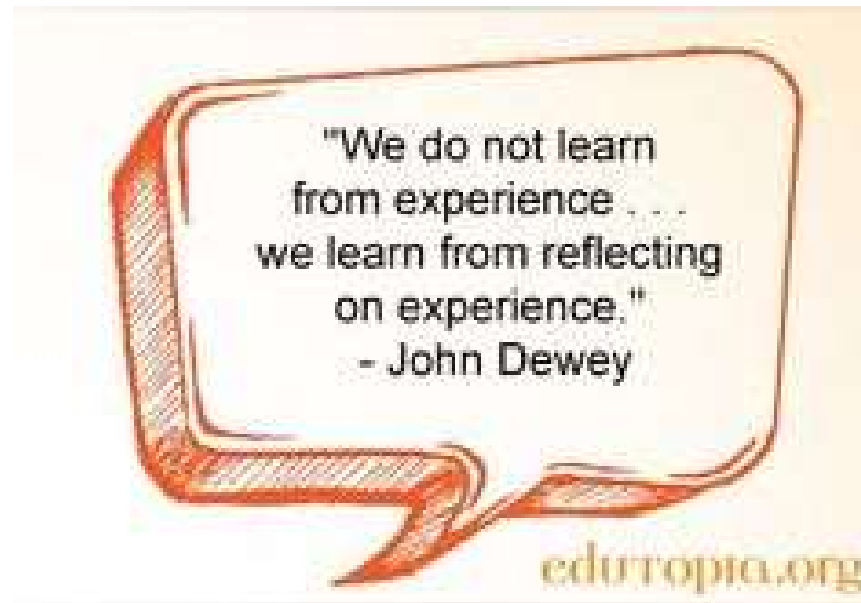
CONCLUSION CONT.

- **CSSD = VALUABLE** beyond measure as part of the induction of students to theatre!!
- The staff plays a **HUGE ROLE** in welcoming them and making them feel at ease
- **THANK YOU TO EVERY CSSD PERSONNEL MEMBER SITTING HERE TODAY** – you have made a difference in a student's life and the knowledge you imparted is of utmost importance for them going forward in their careers.

THE CHALLENGE

No matter where you work or what you do...

REFLECT



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QUESTIONS



TYPES OF REFLECTIVE PRACTICES

- Keeping a diary
- Peer observation
- Recording lessons
- ***Student feedback***
- **THEN:**
- Think
- Talk
- Read
- Ask

Tice, 2004

CSSD DEFINED

- The Central Sterile Supply Department (CSSD) comprises that services within the hospital in which medical/ surgical supplies and equipment are cleaned, prepared, processed, stored and issued for patient care.
- CSSD is typically divided into four major areas to accomplish the functions of decontamination, assembly and sterile processing, sterile storage, and distribution.
- (Wikipedia, 2019)

STUDENTS' REFLECTIONS

Additional comments regarding the role of CSSD?

- Rotating through CSSD is a must:
- You have to understand the heart before you understand the full functioning of the whole system, namely theatre
- It was a good starting place for me in my course and has helped me throughout my entire 3 years.
- Their welcoming made me feel as if I belonged there and not out of place
- I think it should be the foundation of any person starting in theatre
- CSSD is a good start for everyone
- I think it is needed that EN and ENA circulators should also spend time in CSSD as it would be great if they are counting and know the instruments