

REVERSE OSMOSIS HOW WE MADE IT

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Background

- RMH CSSD will move to a brand new facility in June 2015 on the 5th floor of RMH (Northside).
- In June 2016 Peter Mac commenced Sterilisation at RMH CSSD.
- RMH also continued the service for Melbourne Private for all low temperature sterilization.

Background

Old Department:

- 2 washers, 2 sterilisers and a pass through washer

New Department:

- 7 Batch washers, 1 dedicated Neuro washer, 2 case cart washers, 2 Ultrasonic, 4 Low temp sterilisers, 6 steam sterilisers, 1 electric steriliser. Floor space increasing by 6 X size of old department.

WHERE DO THE ISSUES START

- Batch Washes constantly breaking down for 8 months
- Leaking water in the ceiling
- Increased sick leave
- Increased EFT
- Broken case carts within weeks of commissioning department
- Water testing from good to bad
- Copper in water testing

NEGATIVE WATER TESTING

- Establish where the issue is
- Is it at Street level
- Pre washers
- Nowhere else in hospital
- Organise large meeting:
- RMD committee
- Washer manufacturers- Tender People

NEGATIVE WATER TESTING

- Washer Rep
- Water testing company
- Hospital engineering
- Capital team (people involved in the build)
- Theatre perioperative Manager
- CSSD NUM
- Company involved in building the new facility

FINDINGS:

- Copper in new pipes
- Pipes not flushed
- Engineering organised large flushing of pipes
- Washer technicians to shut off water valve to washers pre flush then reopen post flush
- Clean washer filters post flush in washers
- Re test water
- Results within limits

RO- Reverse Osmosis System

- Water holding tank which filters water prior to entering the pipes to the washers
- Still water
- RO tank and hot water tank with rotating water, and filtering

What Size Tank do I Need?

- Confirm with manufacturers size of water holding tank in each washer: 27liters
- We have 7 washer: $27\text{Lt} \times 7 = 189\text{litre tank} +$ little more minimum
- This was only for the Batch washers

Questions?

- How many litre in each Batch washer required per load?
- How many washers do I have?
- Does my RO rotate water?
- Where the RO will be placed, will the flooring with hold the weight?
- If the RO fails, can I turn off RO and have it revert to normal function without RO?

Questions?

- Can my water reports explain what my test is and what the acceptable limits are?
- DO I regularly descale each washer? Scan this into tracking system evidence
- When I water test, test street level, pre RO, Pre washers, hand wash sinks, and is there anywhere else in the hospital I should be testing?
- For your hospital: Who do I report the water results too?
- Does my RMD have good representation: Infection control, Nursing representation, NUM CSSD, NUM theatre, Medical representation.

Questions?

- Who and what hospital executive will help me when something is wrong?
- When will someone start listening to me?
- When { do I explain why we needed RO
- It's not just because it's in the AS 4187 standard
- It will help look after your instruments

- Communicate, talk to others, know you are not alone, you are not doing this alone
- Build your team in your hospital
- No question is a silly question
- Ask others who have done it or in the process of doing it. It doesn't cost you to ask other managers from other hospitals.