

# **Pacific Biomedical Network Meeting**

**29 – 31 May 2023  
Nadi, Fiji Islands**

**FIJI FACILITY HEALTH PROGRAM  
(FFHP) & COLONIAL WAR MEMORIAL  
HOSPITAL (CWMH) BIOMEDICAL  
ENGINEERING - TEAM PRESENTATION**



# “IMPROVEMENT INITIATIVES FOR THE BIOMEDICAL ENGINEERING TEAM AT COLONIAL WAR MEMORIAL (CWM) HOSPITAL”

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# Pacific Biomedical Network Meeting

## 1. BACKGROUND

Current department headcount = 22 total staff

8 MHMS – Biomedical Engineers, Technical Officers, Technicians

3 Project Officers - 2 Curekids, 1 FFHP

11 FNU Attachés – 64% female, 36% male



## 2. PROGRESS AND ACHIEVEMENTS

- Key accomplishments:

5S Project



Figure 1: <https://www.5stoday.com/what-is-5s/>

Board of Survey



Figure 2: Biomedical equipment identified for board of survey, April 2023

## 2.1 5S PROJECT

- Commenced in Feb 2023 – present
- 5 Steps - Sort, Set in order, Shine, Standardize, Sustain
  
- Locations of implementation:
  - Phase 1 – Old OT/Post Anaesthetic Recovery Unit (new storage space)
  - Phase 2 – Biomedical Engineering workshop
  - Phase 3 – Biomedical department storeroom
  
- 5S Project Status – steps 1-3 almost complete for Phases 1-3

## 2.1.1 5S Step 1 - Sort



Figure 3: Phase 1 Old OT BoS equipment sorting, February 2023



Figure 4: Phase 3 biomedical storeroom sorting, February 2023



## 2.1.2 5S Step 2 – Set in Order (Before)



Figure 5: Phase 3 storeroom set in order, Feb-Mar 2023



Figure 6: Phase 1 Old OT set in order, March 2023



## 2.1.2 5S Step 2 – Set in Order (After)



Figure 7: Phase 1 ventilators set in order, March 2023



Figure 8: Phase 1 ECGs set in order for BoS, April 2023



## 2.1.3 5S Step 3 – Shine (Before)



Figure 9-11: Phase 1-3 shine, April 2023

## 2.1.3 5S Step 3 – Shine (After)



Figure 12: Old OT hallway post paint work, March 2023



Figure 13: Phase 1 storage area post CWMH clean up campaign, March 2023



## 2.2 BOARD OF SURVEY (BoS)

- Total number of biomedical equipment for decommission = 500
- Government of Fiji (GoF) purchased and donated
- Total purchase value over \$1.4m FJD
- Ministry of Environment (MoE) consulted



### **BoS Status:**

Endorsed by Asset Management Unit (AMU) 

In process to receive clearance by Ministry of Finance (MoF) 

Figure 14: Board of survey for biomedical equipment decommission endorsed by AMU officer, April 2023

# 3. CHALLENGES

Time management and role balance – Improvement initiatives with preventive maintenance (PM)

Market research capacity – develop skill

Collaboration with CWMH internal units – meetings, strategies

Financial budget & Human resources – limited



# 4. FUTURE DIRECTIONS

- Biomedical Engineering Job Evaluation
- Continuous professional development
- New systems – mSupply & Tupaia
- Biomedical asset & inventory management
- Governance
- Building operational relationships
- Patient safety & experience
- Monitoring, evaluation, and learning (MEL)

THANK YOU, VINAKA 😊