SAFETY AROUND MEDICAL DEVICES
(IN ACCORDANCE WITH AS/NZS3551 & AS/NZS3003)
Biomedical Servicing & Installations

- Annual Testing Program for Medical Equipment onsite
- WOF
- Medical Equipment Validation
- Maintenance, Calibration & Servicing
- AS/NZS 3551 Technical Standard for Maintaining Medical Equipment
- AS/NZS 3003 Electrical Installations around Patient Area
Definitions

- Annual Biomedical Testing
  - Electrical Safety
  - Performance Verification
- Calibration
- Preventative Maintenance Servicing (PM)
- Acceptance Testing
- Repairs
- Installation
Why is this necessary

- Keep Patients Safe!
- Keep Clinicians Safe!
- Prolong the life of your Medical Devices!
- Optimise outputs from Medical Devices!
- Accreditation!
- Keeping with Australia/New Zealand Standards
Electric Shock

- Macro shock
- Micro shock
- Static shock
Other Hazards

- Thermal
- Radiant
- EMI
- Loss of Power
Medical Service Panels

- 1 panel solves all your problems
- 1 panel meets all the standards
- RCD Power Switches, Oxygen, Vital Signs, Otoscope, Ophthalmoscope, Exam Lights and other possible integrations
- Body Protected
- Complies with AS/NZS 3003
Medical Service Panels (www.modempak.co.nz)
RCD Switches – Body Protected & Gas Outlets
(www.modempak.co.nz)
Area of Classification

Body Protected

Cardiac Protected
What to look out for?

- Valid Service Stickers (WOF)
- New equipment has been Acceptance Tested (WOF)
- Extension Cords, Tap-on Plugs – No! No!
- Clear Plugs & Moulded Clear Cords
- Decommissioning damaged equipment
Repairs & Acceptance Testing

- Dangers of NOT carrying out Acceptance Tests
- Repairs Logging – Faults Tags
  - biomedical@outlook.co.nz (free tags)
- Feasibility of repairs – quote before repair
TAG NO. XXXXX

OUT OF SERVICE
DO NOT USE

REASON ____________________________
_________________________________
_________________________________
SIGNED _______________ DATE _____________

TAG NO. XXXXX
LOCATION ____________________________
_________________________________
_________________________________
PROBLEM ____________________________
_________________________________
_________________________________
SIGNED _______________ DATE _____________
Testing Rates & Charges

- Feasibility of Annual Testing
- ECGs, Defibs, Diathermy, Vital Signs Monitors, Scales, Exam Lights, Suction Units, Ear Thermometers
- Some equipment do not need to be annually tested unless specified e.g. Ophthalmoscopes, Otoscopes, Stethoscopes
Innovative Medical Device Hazards

- USB ECGs, Spirometers, Diagnostic Devices. Electrical Leakage Hazards
- USB Devices should have dedicated Computers/Laptops
- Qualified Service Personnel
- Tested to Manufacturers Spec
Biomedical Service Provider

- Ask Biomedical Technician for EAS License
- Check WOF stickers have AS/NZS3551 stated on it
- Ensure on the report you have some parameters stated and what Test Equipment was used to conduct test
Summary

- In Service Training
- Beware of Fluids and Wet Hands
- Repair Fault Tags
- Check for Faulty Cords & Plugs
- New Equipment – Acceptance Tested before use
- Check your Biomedical Service Providers Credentials
Modempak NZ | ESCO

- Kiwi Company
- Design, Manufacture, Distribute & Supply
- We deliver innovative medical equipment solutions
- Specialise in Planning, Refurbishments, New Builds & Equipment Audits
Contact Details

Nick Sharma
Business Manager
MODEMPAK NZ (Medical Telco & Energy)
E: nick.sharma@modempak.co.nz
P: 0800 329 636
M: 021 661871