

Medical device donation guidelines for Ebola outbreak

20 January 2015

Requirements

A. Appropriate, robust, durable/disposable medical equipment

1) High quality device or equipment:

- Regulatory clearance
- Capable of operating with limited-resource for electricity, water and compressed gas
- Minimum six-month shelf life

2) User manuals, service (maintenance) manuals, disposal instructions and software are in health worker’s language:

- in French for Guinea, Democratic Republic of Congo
- in English for Liberia, Nigeria and Sierra Leone

3) Availability of supplies for a minimum one year of operation:

- Accessories,
- Consumables,
- Reagents (operation and cleaning),
- Maintenance materials (spare parts and tools),
- Test and calibration equipment and reagents, 5 per country, if possible.

B. Concerning unstable or lacking running water supply, of varying quality may require:

- Device be disposable,
- Surfaces can be cleaned/disinfected/sterilized with appropriate disinfectant,
- Barriers can be added between patient and device, depending on the device,
- Cleaning/disinfection/sterilization procedure and consumables are shipped with device.

C. Concerning limited or unstable power supply:

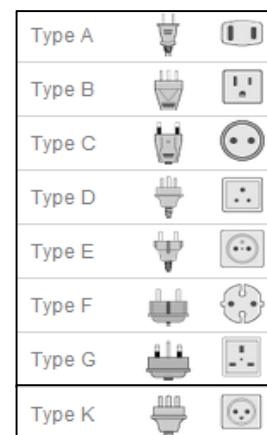
1) Medical devices or equipment may require:

- Battery-operated devices,
- Extra batteries or re-chargeable batteries,
- Backup generators,
- Current stabilizer.

2) Sources of energy may require in countries:

- Uninterruptable power supply to protect from blackouts and unstable power supply,
- Multiple extension connections with fuse spike detection,
- Correct plug adaptor,
- Transformer, etc.

Country	Voltage	Frequency	Plug types
Democratic Republic of Congo	220 V	50 Hz	C or D or E
Guinea	220 V	50 Hz	C or F or K
Liberia	120 V, 220V	50 or 60 Hz	A or B or C or E or F
Nigeria	230 V	50 Hz	D or G
Sierra Leone	230 V	50 Hz	D or G



Sources: http://www.iec.ch/worldplugs/list_bylocation.htm and <http://www.iec.ch/worldplugs/>

3) Used with atmospheric or compressed gas supply, or accessory equipment is included to compress gas

4) Good ease of use and ease of maintenance