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| 4-2 Mains electricity failure v1v.1 |
| Unexpected total power failure is rare and unpredictable. Ability to safely deliver and maintain anaesthesia is immediately compromised. |

START.

❶ Call for help – extra staff to monitor patient and source additional equipment.

❷ Liaise with local coordinator to activate appropriate local plan (Box A):

* If immediate evacuation necessary **→ 4-3**

❸ Get additional light into theatre (Box B).

❹ Ensure ventilation continues:

* Manual ventilation if required.
* Consider moving to spontaneous ventilation.
* Maintain anaesthesia.

❺ Check the pulse and blood pressure manually if monitors have failed.

❻ Check mains oxygen supply intact. If failed**→ 4-1**

❼ Unplug unnecessary equipment. Use correct socket for essential equipment (Box C).

❽ Assess reliability of power supply, duration of surgery and patient condition:

* Consider stopping surgery immediately.
* Consider continuing surgery until patient is stable and wound is closed (may be temporary closure).
* Consider evacuation to theatre with intact mains supply **→ 4-3**

**❾** Prepare recovery facilities. Consider theatres, recovery, ICU.

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| Box A: ACTION FROM LOCAL COORDINATOR |
| Local coordinator should activate any local incident plan and urgently establish and brief teams on:   * Extent of failure. * Likely duration of failure. * Interruption to other services (eg oxygen, water). |

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| Box B: SOURCES OF ADDITIONAL LIGHT |
| * Open doors and blinds. * Hand torches, portable lights, mobile phones, laryngoscopes. |

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| Box C: TYPES OF POWER SUPPLY |
| * Standard power socket: not protected. * SPS: Secondary supply (red socket) for devices that can sustain brief periods of loss of power (eg those with internal battery back-up). * UPS: Uninterrupted supply (blue socket) for instantaneous and continuous protection. This supply is limited therefore avoid using UPS sockets unless absolutely necessary. * Devices’ internal battery backup: this may not supply all functions of the device and duration may be variable. |

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| Box D: CRITICAL CHANGES |
| Mains oxygen failure→ 4-1  Emergency evacuation → 4-3 |

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4-2