IMPACT OF LOADSHEDDING

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PURPOSE

To outline and highlight the impact of loadshedding on Hospital Services.

BACKGROUND:

- Loadshedding in hospitals arises through different aetiological causes.
- 1. Scheduled loadshedding by Eskom
- 2. Breakage of electrical infrastructure like transformers outside the hospitals
- 3. Theft and vandalism of electrical cables in or outside the hospitals
- 4. Failure in backup mechanisms of diesel generators





IMPACT OF LOADSHEDDING AT HEALTH FACILITIES

• Loadshedding affects sensitive machinery within the Hospitals

ITEM	AREAS AFFECTED	CONSEQUENCES
Boilers	 The steam reticulation system is not operational Laundry services are affected Kitchen services are affected Auto-claves are affected 	 No steam Poor Supply of Linen Poor supply of Food Lack of sterilization of equipment





IMPACT ON CLINICAL SPACE

Loadshedding affecting Clinical Areas

ITEM	AFFECTED AREAS	CONSEQUENCES
Information Technology System	Patient records	Delayed retrieval of patient files – long waiting times
	PACS System	 Delayed reporting of Radiological reports. Long waiting times for patients
	NHLS blood results system	Delayed retrieval of blood results – long waiting times
	General ICT system supporting support services	Cancellation or inefficiencies of operating services
Cost Implications	 High costs for procuring of huge quantities of Diesel 	Over-expenditure of budget allocation for Diesel





IMPACT OF LOADSHEDDING

ITEM	AREAS AFFECTED	CONSEQUENCES
Theatre Operations	Elective cases not done	Surgical Backlogs
Critical Care Areas (ICU and HIGH CARE AREAS)	Most equipment's can only run for 30 minutes without power on back up supply	Morbidity and potential mortalities
Hot Water Challenges	Bathing of patients affected and the sterilization if water affected	Potential Infection Outbreaks





IMPACT OF LOADSHEDING ON HOSPITALS

GENERATORS

- This equipment runs more than the time allowed in the service plan,
- This causes the equipment to be serviced twice or more than the planned scheduled intervals hence higher expenditure on maintenance.
- This pushes the cost of fuel higher than in the normal situation,
- Constant repairs due to burning of circuit breakers
- As generators are meant to be for standby, excessive use can lead to premature failure.





CONCLUSION

- Hospitals on exemption of loadshedding are ferrying much better in terms of the consequences of electricity outages.
- Loadshedding exerting heavy demands on the diesel generators and the diesel supply.





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