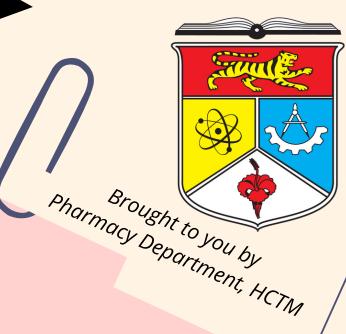


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Errors

Wrong Frequency



6-day old Qneonate diagnosed with Haematemesis with acute gastritis secondary to swallowing maternal blood

Given IV Gentamicin (cover for sepsis)
intended 11.3mg 24 hourly dosing but
administered after
11 hours 15 mins



STAT dose 18/10 @12:45 pm



2nd dose 19/10 @12 am



Consequences

TDM Gentamicin trough level: 8.1mmol/l (toxic) Normal trough level < 4.2mmol/l





Risk of Nephrotoxicity (often reversible)





Risk of Ototoxicity bilateral vestibular damage affecting hearing & motion (often irreversible)



How do we avoid?

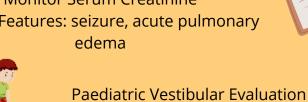


Recheck medication chart & cross-check dose to be given.

Contact pharmacist in charge if unsure.

Monitor Acute Kidney Injury

Oliguria <1ml/kg/hr in neonates Monitor Serum Creatinine Clinical Features: seizure, acute pulmonary



. dedicante vesticatar Evalua

Monitor Ototoxicity

Otoacoustic Emission (Initial Screening)
At 2-3 months old, brainstem auditory evoked response (BAER) to confirm hearing loss



Wrong Formulation & Frequency



Madopar HBS (Hemodynamically Balanced

System)

Cap Levodopa 100mg +



Madopar

Tab Levodopa 200mg + Benserazide 50mg

Benserazide 25mg
63yo Parkinson patient

was wrongly given

Madopar HBS 1 Capsule QID instead of

Madopar Tablet 1 tab QID (Old Rx)



Patient developed

- 1. Delay to turn "on" with the first dose in the morning
- 2. Increase in dyskinesia accumulation of L-dopa during the day ,increased risk of falls

Why?

Madopar HBS delayed onset (~3 hours) & prolonged duration (~6-8hours)

Consult pharmacist on different formulations available & do take note of the differences



Madopar Onset: 1 hr Suitable for patients with dysphagia, patients with delayed 'ON' phenomena, early morning rigidity

Dose: 2x – 6x daily Minimum dose: Madopar 62.5 mg (50/12.5) BD

Suitable for patients with peak dose dyskinesia, suffering nocturnal symptoms.

NOT SUITABLE
IN PATIENT WITH RYLES TUBE

Dose: 1-2x daily



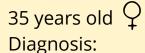
Madopar HBS
Onset: 3 hrs

Wrong Drug



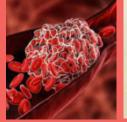






- 1) MSSA (Methicillin Sensitive Staph. Aureus)
- 2) IE (Infective Endocarditis)

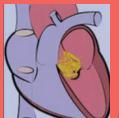
Discharged with Tab Cefuroxime Axetil 250mg BD for 1 month Tab Cefuroxime Axetil oral bioavailability is 37-52% and NOT recommended in Infective endocarditis (IE) as IE is a high inoculum infection. Hence, patient may be receiving subtherapeutic antibiotic treatment leading to IE complications such as



Blood clot



Heart failure



Abscess



Increase mortality

Due to the complexity of each case,

- 1. Always refer to <u>Infectious Disease (ID)</u>
 Team
- 2. Double-check with the pharmacists on the best antibiotic with best oral bioavailability in consortium with ID team





References: NAG 2019 Guidelines, Paediatric Audiology Department HCTM PPUKM, Paediatric Protocol for Malaysian Hospitals 4th Edition (2019), New Zealand Data Sheet Madopar 2021

PPUKM DRUG FORMULARY NOW AVAILABLE ON:





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PDF version of this bulletin can be found at https://hctm.ukm.my/farmasi/

#TowardsZeroMed-Error

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