Louth: Antimicrobial Guidelines - Louth Hospitals: Antimicrobial Guidelines: Voriconazole Prescribing Aid

Voriconazole Prescribing Aid

Please see BNF or SPC for full prescribing information.

Dose :

IV: Loading dose 6 mg/kg IV every 12 hours for 2 doses, then maintenance dose 4 mg/kg IV every 12 hours. [1-3]

Oral: **N.B.** Oral voriconazole **must** be taken on an empty stomach for effect.

If patient is on NG feed, a 3 hour feedbreak is required for each dose: Stop NG feed 2 hours before dose, restart NG feed 1 hour after dose. [4]

Adult (body-weight up to 40 kg): Initially 200 mg PO every 12 hours for 2 doses, then 100 mg PO every 12 hours, increased if necessary to 150 mg PO every 12 hours. [1-3]

Adult (body-weight 40 kg and above): Initially 400 mg PO every 12 hours for 2 doses, then 200 mg PO every 12 hours, increased if necessary to 300 mg PO every 12 hours. [1-3]

Dose in Renal Impairment :

No dose adjustment required in renal impairment or CRRT. [5] When CrCl < 50 mL/min, accumulation of the intravenous vehicle may occur. Monitor renal function if patient on IV treatment. [1,5]

Use oral route unless risk/benefit justifies use of IV, e.g. check if patient absorbing PO/NG medicines.

Drug Interactions :

Voriconazole can increase QTc – monitor, particularly if patient on other medication which can increase QTc. [6]

Simvastatin: Voriconazole increases exposure to simvastatin. Suggest HOLD (combination contra-indicated). [6]

Atorvastatin: Voriconazole increases exposure to atorvastatin. Suggest HOLD (manufacturer advises to avoid or use a lower maximum dose and monitor for rhabdomyolysis). [6]

Benzodiazepines: Voriconazole is likely to increase the concentration of benzodiazepines and lead to a prolonged sedative effect, dose reduction may be required. [6]

Phenytoin decreases the exposure to voriconazole and voriconazole increases exposure to phenytoin. Manufacturer advises avoid or adjust voriconazole dose and monitor phenytoin level. [6]

Multiple other interactions, see BNF or SPC.

Therapeutic Drug Monitoring :

Check trough level after 3 to 5 days. [7]

Use serum bottle brown top tube

Repeat level in the second week to ensure it is in therapeutic range. [7]

In practice, send level on Monday so that Laboratory Referrals can send out on Tuesday morning for processing on Wednesday. Result usually available by Friday evening.

Other Monitoring :

Monitor ALT and AST [1-3]

Monitor for rash – risk of SJS or TEN with voriconazole. [2,3]

Reports of prolonged visual adverse reactions, including blurred vision, optic neuritis and papilloedema. [2,3]

Risk of phototoxicity. [1-3]

References :

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Stockley's Drug Interactions.Available from www.medicinescomplete.com , accessed 22/2/21.

ECIL 6 Meeting. Triazole Antifungal Therapeutic Drug Monitoring. Final slide set posted on ECIL website Dec 8th , 2015. On file in OLOL Pharmacy Department.

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