HERSTON HEALTH PRECINCT SYMPOSIUM 2021

Example of

Nausea, swallowing

reaction:

difficulties

Previous mild

reaction to sulfur

Rash, itch, boils

Severe bullous

erythroderma,

desquamation,

DRESS

CLIN-0006

Appropriate for direct de-labelling

Appropriate for supervised direct oral

Not appropriate for desensitisation

Not appropriate for retrial due to low

Not appropriate for retrial due to drug

interaction with current chemotherapy

6 - 10 September 2021 Education Centre RBWH



Drug use evaluation project – nebulised pentamidine

Action category:

challenge.

platelets

investigation

May be appropriate for

oral rechallenge.

TMP-

allergy

severity:

Very low

Moderate

Low

High/

severe

Not

Not

Not

applicable

applicable

applicable

SMX

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Background:

Trimethoprim -sulfamethoxazole (TMP-SMX), is the traditional first line prophylactic agent for *Pneumocystis jiroveci Pneumonia* (PJP) due to superior efficacy, spectrum of activity, low cost, ease of access & low resource requirements¹. Nebulised pentamidine is utilised as a second line agent but is not as efficacious and has greater financial impact².

Aim:

To identify the indication for nebulised pentamidine & why other alternative PJP prophylaxis therapies were not appropriate.

Methods:

A prospective audit was conducted during March 2021. Data was collected for 30 cancer care patients using an audit tool. Data collected aimed to identify:

- Indication & duration for nebulised pentamidine
- Patient stream (eg BMT/Haem/MONC/RONC) & cancer care diagnosis
- · Platelets at time of last dose
- Allergy status & severity (if known)
- Current immunosuppressive/chemotherapy regimen

Patient allergy severity to TMP-SMX was classified into five risk categories: very low – severe using the Austin Antibiotic Allergy Assessment Tool & decision support tool.

References

1.Cooley L, Dendle C, Wolf J, Teh B, Chen S, Boutlis C et al. Consensus guidelines for diagnosis, prophylaxis and management of Pneumocystis jiroveciipneumonia in patients with haematological and solid malignancies, 2014. Internal Medicine Journal. 2014;44(12b):1350-1363.

2. Prophylaxis - Pneumocystis jiroveci (carinii) in cancer patients [Internet]. Eviq.org.au. 2021













Compliance/for further allergy





Results:

% of

study

total:

10%

3.3%

43.3%

10%

23.3%

3.3%

6.7%

Total

number

patients:

1

13

3

1

30 patients included in the study: 17 haematology, 11 BMT, 2 MONC/RONC

| Time since pentamidine commenced (months): | Total number of patients: | % of study total: |
|--|------------------------------------|-------------------|
| 0-6 | 14 | 47% |
| 7-12 | 9 | 30% |
| 12+ | 7 | 23% |

Conclusion:

challenging can be considered in majority of patients, particularly hose with mild to moderate eactions to TMP-SMX. Pentamidine duration should be regularly reviewed for ongoing equirement. Further action required for duration of use for possible TMP-SMX induced myelosuppressive actives effects.



Metro North Health