

1. Assessing symptoms - COVID-19 vs Myocarditis vs Neutropenic sepsis:

Symptoms similar to COVID-19 can arise from incidental (non-COVID) infections associated with neutropenia. For patients with symptoms of infection, including fever, sore throat & flulike symptoms, an **urgent neutrophil count** is recommended

Consider – when did symptoms start? Is there a cough? How's the FBC?

- ➤ Myocarditis most likely in first month of treatment; may cause fever, ↑respiratory rate & chest pain, but <u>not</u> cough; signs =↑pulse rate, ↑CRP, ↑troponin; if suspected, STOP clozapine (notify CPMS 08457 698269; cpms@mylan.co.uk)
- Neutropenic sepsis most likely in first year of treatment (reducing risk as time goes on); likely to present as fever, sore throat & chills (not cough); signs = ↓ neutrophils; if suspected, STOP clozapine (notify CPMS 08457 698269; cpms@mylan.co.uk)
- ➤ COVID-19 fever and/or cough; signs = ↑lymphocytes, **neutrophils stable or ↑** (i.e. no neutropenia); clozapine can be continued in mild-moderate disease, WITHOLD if severe respiratory disease (hospitalisation)

Bottom line (as a general guide, not definitive) - if no cough, unlikely to be COVID-19; if outside first few months of treatment, unlikely to be myocarditis or neutropenic sepsis

2. Home visit for blood sampling:

- > Use PPE and hygiene measures as per IPC advice
- ➤ Collect sufficient samples for FBC (at path lab or on Pochi at Trust base) & serum levels (Viapath) only one sample is needed if FBC is checked on Pochi as this sample can also be sent to Viapath for levels; otherwise two samples are required. N.B. in patients without symptoms, a check of serum levels is only required if there has been a change in smoking status or habit
- Check smoking status and, if smoker, any change in frequency/intensity if changed, be prepared to reduce dose
- Check physical health status BP/pulse, weight, assess for constipation
- Re-assure patient that it is safe to continue taking clozapine

3. Assessment of Full Blood Count (impact of COVID-19):

Coronavirus infection may depress lymphocyte count, but does not seem to reduce neutrophils. It's likely that patients with COVID-19 will have a low white cell count (WCC), due to reduced lymphocytes. As the monitoring parameters include WCC, a reduction of lymphocytes may lead to blood results that, under normal circumstances, require increased monitoring (AMBER) or interruption of treatment (RED) to protect the patient from neutropenia or agranulocytosis. Where a low WCC occurs in the presence of a normal or non-dangerous neutrophil count in the context of COVD-19 infection, refer to this guidance to assess if clozapine can be safely continued – discuss with CPMS if necessary (08457 698269)

4. Clozapine supply in the absence of a valid FBC:

In <u>all cases</u>, this would be outside the terms of the product licence, and <u>must</u> be approved by the CD/ACD*; CPMS must also be notified***.

HIGH RISK - for patients on WEEKLY monitoring (up to 18 weeks' treatment), the risk of neutropenia or agranulocytosis remains significant - the interval between FBCs should not exceed 10 days if possible. Supplies beyond the 10 days permitted within the product licence will <u>not</u> be issued by pharmacy without confirmation of approval from the CD/ACD**, and will be a maximum of 4 days' supply;

MEDIUM RISK – patients on 2-WEEKLY monitoring (19-52 weeks' treatment) & patients on 4-WEEKLY monitoring who do not meet the criteria below should be assessed on an individual basis, taking into account any history of low WCC on clozapine. Supplies beyond the 21/42 days permitted within the product licence will not be issued by pharmacy without confirmation of approval from the CD/ACD**, and will be a maximum of 7/14 days' supply respectively;

LOW RISK - for patients on 4-WEEKLY MONITORING, if....

- they have been on continuous treatment >12 months, and
- they have no historical neutrophil count <2000 (<1500 if history of BEN), and
- there is no safe or practical option for a blood test

.....clozapine can be supplied for up to 12 weeks from the most recent **GREEN** result, with the approval of the CD/ACD**, supplied in <u>28-day instalments</u>

*RC to seek approval via email, cc'd to tewv.pharmacyadmin@nhs.net, using this form to provide details (or as a prompt to doing so)

**CD/ACD to notify RC of approval by email, cc'd to tewv.pharmacyadmin@nhs.net

***RC responsibility, after CD/ACD approval; CPMS – 08457 698269; cpms@mylan.co.uk

General notes:

A. Patients on clozapine are only required to shield if they have existing severe respiratory disease, or are at high risk of immunosuppression due to treatment with immunosuppressant drugs, or have been advised to do so for another specific reason unrelated to clozapine therapy.

B. "Severe" generally means hospital admission / unconscious, ventilated & unable to take medication orally. If clozapine is withheld >96 hours since last dose, this normally requires re-registration & weekly FBC monitoring for 6 weeks – contact CPMS to discuss (08457 698269)

C. For CPMS – read DMS / ZTAS for patients on Denzapine or Zaponex respectively

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Approved by: Clinical Advisory Committee

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