CPRS Clozapine Ordering Changes – Quick Reference Card

FDA Guidelines for Monitoring Clozapine Patients:
- The ANC result is the laboratory blood test of choice for monitoring patients on clozapine
- VistA requires a matching WBC result from the same draw date/time

<table>
<thead>
<tr>
<th>ANC Level</th>
<th>ANC Monitoring</th>
<th>Frequency of ANC Lab Tests</th>
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</thead>
<tbody>
<tr>
<td>Normal range</td>
<td>ANC ≥ 1500/cmm</td>
<td>• Weekly for patients 1 – 6 months on therapy</td>
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<td>• Bi-weekly for patients 6 – 12 months on therapy</td>
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<td>• Monthly for patients &gt;12 months on therapy</td>
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<tr>
<td>Mild neutropenia</td>
<td>1000 – 1499/cmm</td>
<td>3x weekly until ANC stabilizes to 1500/cmm or greater</td>
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<tr>
<td>Moderate neutropenia</td>
<td>500 – 999/cmm</td>
<td>Daily until ANC stabilizes to 1000/cmm or greater, then 3x weekly until ANC stabilizes to</td>
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<td></td>
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<td>1500/cmm or greater</td>
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<tr>
<td>Severe neutropenia</td>
<td>&lt; 500/cmm</td>
<td>Daily until ANC stabilizes to 1000/cmm or greater, then 3x weekly until ANC stabilizes to</td>
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<tr>
<td></td>
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<td>1500/cmm or greater</td>
</tr>
</tbody>
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Local Override
The conditions when a Local Override is allowed include:
- ANC between 1000 – 1499/cmm: Mild Neutropenia
- No ANC: Emergency 4 day Supply for Special Conditions
- Non-registered patient: Emergency 4 day Supply allowed with a temporary authorization number assigned during non-duty hours

National Override
The conditions when a National Override is allowed include:
- Moderate to Severe Neutropenia
- ANC results have No Matching WBC result
- No ANC result in last 7 days (non-emergency)

Normal ANC
When a registered patient with temporary or permanent authorization has an ANC result of 1500/cmm or greater with a matching WBC in the last 7 days, there is no CPRS message to the provider and a pending order is sent to pharmacy.

Non-Registered Patient – Emergency Registration Override – Temporary Authorization
For a patient who is not actively registered, the CPRS message instructs the provider to send a written order to the pharmacy where a temporary local authorization number is assigned during non-duty hours for a one-time emergency 4 day supply.
*Must have ANC result of 1500/cmm or greater with a matching WBC in the last 7 days.

Figure 1: Emergency Registration Override

Mild Neutropenia
When a registered patient has an ANC result of 1000-1499/cmm (Mild neutropenia) with a matching WBC in the last 7 days, the message the provider receives in CPRS instructs them to test ANC 3x weekly until ANC stabilizes to greater than or equal to 1500/cmm. A pending order is sent to pharmacy for a Local Override.

Figure 2: Mild Neutropenia

ANC unit of measure: cells per cubic millimeter
(cmm = cu mm = mm3 = µL)
Moderate and Severe Neutropenia
When a registered patient has an ANC result less than 1000/cmm (Moderate is 500-999/cmm and Severe is less than 500/cmm), with a matching WBC in the last 7 days an NCCC Authorized National Override is required before the order can be placed. Once a national override is in place, the messages the provider receives in CPRS instructs them to test ANC daily until ANC stabilizes to greater than or equal to 1500/cmm.

Figure 3: Message 1

Figure 4: Message 2

Note: Once the ANC stabilizes at 1000/cmm, the ANC is to be tested 3x weekly until it stabilizes to 1500/cmm or greater.

No Matching WBC result – No National Override in effect
When a registered patient has an ANC result in the last 7 days but no Matching WBC result, and a National Override is not in effect, the CPRS message instructs the provider to redo lab tests or contact NCCC for a National Override.

Figure 5: No Matching WBC, No National Override

No Matching WBC result – National Override in Effect
If the provider requested and received a National Override for a patient that has an ANC result but no matching WBC, the CPRS message instructs the provider to order ANC and WBC immediately.

Figure 6: No Matching WBC Result, National Override
No ANC result – National Override for non-emergency
When a registered patient has no ANC result in the last 7 days, the provider has two options. In a non-emergent situation the provider can contact the NCCC to request a National Override to dispense the patient’s normal weekly, biweekly, or monthly supply.

No ANC result – Local Override for emergency
In an emergency situation when a registered inpatient has no ANC result in the last 7 days in the local VistA system, the provider can authorize a local override to allow the patient to receive a one-time 4 day supply. The provider can write a prescription/order to the pharmacy and include the Inpatient reason as IP Order Override with Outside Lab Results in addition to recording the ANC results from the outside lab.

Auto-Notification to Provider
When the prescription/order that required an override is completed/verified, an auto-notification is sent to both the Provider and the Approving member of the clozapine team to both CPRS GUI and VistA Backdoor Pharmacy.

Complex Clozapine Orders
Complex orders for clozapine may not be able to correctly calculate the stop date based on the patient’s clozapine REMS monitoring frequency. Although such orders may be processed with a manual pharmacy review of the stop date(s) on the resulting child orders in the pharmacy package, it is recommended you avoid the use of complex inpatient medication orders for clozapine until the software issues are resolved.