Affix patient	identification	label	here
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	URN:	Neterralia
rd/unit: Year: 20	Family name:	Not a valid prescription unless
NIMC (clozapine titration)	Given names:	identifiers present
acility/service:	Address:	·
Vaar: 20	Date of birth:	Sex: □M □F
Clozapine patient number (CPN):	First prescriber to print pa	atient name and check label correct:

Ward/unit:		Year:	20			Date	36						
Clozapine patient nur	nber	First prescriber to print patient name and check label co											pel correct:
Clozapine monit	orir	a (sua	neste	d anic	leline	s only	A+						
Giozapino monio		ig (odg	gooto	a gair			<i>l</i> Results						
	(<) if required				Date	(day 7):		day 14):	Date (day 21):	Date (day 28):	
Investigations	if rec	B	aseline	•	/	/	/	/	/	/	/	/	After 28 days
	Σ	Date completed	Normal	Abnormal	Normal	Abnormal	Normal	Abnormal	Normal	Abnormal	Normal	Abnormal	
Full blood count (FBC)													
White blood cell (WBC)													Then continue weekly first
Neutrophils													18 weeks
Eosinophils													then monthly
Troponin – high													Then weekly
sensitivity I or T	Ш												for the next
													two weeks,
C-reactive protein				П							$ \Box $		then 6-monthly thereafter unless
(CRP)													clinically indicated
													per local protocol
Electrocardiograph (ECG)													
Liver function test				П									Then continue as per local
(LFT)	ш												protocol
Urea and electrolytes (U&E)													-
Blood group													
Plasma glucose -													
fasting	Ш												
Total cholesterol – fasting													
Low density													Then at 3 months
lipoprotein (LDL)													then every
- fasting													6 months
High density lipoprotein (HDL) – fasting													
Triglycerides - fasting													
Beta human chorionic													
gonadotropin (Beta			+										As required
HCG) – female Cardiac ECHO	П												
													Then continue
Clozapine plasma level		The clozap post-dose)	may help	guide the th	erapeutic	12 hours dose per							as per local
			loc	al protocol	•								protocol
Full physical exam													
Height				m									
Weight				kg		kg		kg		kg		kg	
Waist				cm								cm	Then continue
BMI													monthly
[weight (kg)/height (m²)]													
Constipation					C	heck bov	wel habi	ts daily f	or 4 wee	eks			Continue weekly
Smoking –													As required
cigarettes per day													

These are suggested guidelines only, refer to the treating psychiatrist for individual monitoring requirements. Check pathology system for test parameters.

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Adapted from: Taylor D, Barnes T, Young A. The Maudsley Prescribing Guidelines in Psychiatry, 14th Edition Wiley Blackwell 2021.

NIMC

(clozapine

titration)

Clozapine titration guide

Pre-commencement

- Assess current smoking status
- Review and document medical history, cardio-metabolic risk factors and drug interactions
- Assess bowel habits, including presence of any unnecessary anticholinergic or other constipating agents
- Provide and explain clozapine brochure to consumer and family/carer Complete clozapine baseline monitoring (see page 1)
- Complete clozapine patient registration form and send to Clozapine Monitoring Centre. To be approved before prescribing
- Inform your local clozapine coordinator
- Provide pharmacist with blood test results and prescription
- Complete high cost eligibility form

Blood monitoring

If clozapine dose missed for 72 hours or less:

· Monitoring should continue as normal with no additional requirements

If clozapine dose missed for 72 hours but less than 4 weeks:

- During the first 18 weeks monitor weekly for at least 6 weeks or for as long as necessary to achieve a total of 18 weeks monitoring. For example, if therapy is interrupted:
- a) after 15 weeks, monitor with weekly blood tests for 6 weeks after clozapine is recommenced
- b) after 9 weeks, monitor with weekly blood tests for 9 weeks after clozapine is recommenced
- Consumers on monthly monitoring monitor weekly for 6 weeks then continue with monthly monitoring if no problems detected If clozapine dose missed for 4 weeks:
- · Monitoring should recommence as for a new consumer

Observation protocol

Refer to local protocol. Where unavailable, Medical Officer to select applicable observation protocol below.

First ever clozapine dose

- 1. Prior to clozapine dose take baseline temperature, pulse, respiration (TPR) and lying and standing blood pressure (BP)
- 2. Administer clozapine as prescribed
- 3. Repeat observations:
- every half an hour for 2 hours
- · every hour for 4 hours
- 4. If above observations are outside normal parameters,
- Re-titration after treatment break (over 48 hours since last dose)
- 1. Prior to clozapine dose take baseline temperature, pulse, respiration (TPR) and lying and standing blood pressure (BP)
- 2. Administer clozapine as prescribed
- 3. Repeat observations:
 - 30 minutes after dose then TWICE daily (default, unless alternate option completed below by Medical Officer)
 - minutes after dose then .
- 4. If above observations are outside normal parameters, seek medical review

DO NOT WRITE IN THIS BINDING MARGIN

Subsequent titration doses: Observations (TPR and lying and standing BP) should be recorded at least once daily, half an hour after a dose is administered. In inpatient settings more frequent observations are appropriate (per local protocol). Where possible, observations should continue for 28 days unless a Medical Officer provides alternative directions on the required frequency and duration of physical observations. Smoking: If change in smoking status notify a Medical Officer

Adverse effect | Time course for onset **Recommended actions** Refer to Clozapine blood results monitoring system table on page 3. Admit to hospital if agranulocytosis is confirmed. Symptoms may include a sore throat or fever

Management of common adverse effects with clozapine therapy (suggested guidelines only)

Agranulocytosis		agranulocytosis is confirmed. Symptoms may include a sore throat or lever.
Myocarditis / Cardiomyopathy	Myocarditis – within 6–8 weeks of starting Cardiomyopathy – may occur at any time	Cease clozapine. Admit to hospital if myocarditis or cardiomyopathy is confirmed. May present with flu-like symptoms.
Constipation	Usually persists and requires continuous monitoring/treatment – Clozapine Induced Gastrointestinal Hypomotility (CIGH)	Severe CIGH can be fatal and should be treated promptly and aggressively. Advise patients of risks before commencing and importance of monitoring bowel function. Recommend high-fibre diet, fluids, exercise and laxatives (such as docusate with senna or macrogol).
Sedation	First few months May persist, but usually wears off	Give smaller dose in the morning. Reduce dose if necessary – check plasma level.
Hypersalivation	First few months Very troublesome at night	Manage according to severity of symptoms. See literature for pharmacological options.
Hypotension	First 4 weeks	Reduce dose or slow down rate of increase. Advise consumer to slowly stand up from a lying or sitting position.
Hypertension	First 4 weeks, but sometimes longer	Increase dose slowly. Hypotensive therapy may be necessary.
Tachycardia	First 4 weeks, but sometimes persists	Common in early stages. If persistent at rest and associated with fever, hypotension or chest pain may indicate myocarditis. Refer to cardiologist.
Weight gain	Usually during the first year of treatment	Ensure dietary counselling before weight gain occurs. Consider metformin therapy per local protocol or evidence-based guidelines.
Fever	First 4 weeks	Give antipyretic, perform urgent FBC and cardiac enzymes. Seek urgent medical review.
Seizures	May occur at any time	If seizures develop, check clozapine levels, seek neurology consult, order EEG and consider starting anti-seizure medicine. Withhold clozapine for one day, and restart at half the previous dose, or per local protocol.
Nausea	First 6 weeks	May give anti-emetic. Avoid prochlorperazine and metoclopramide if caused previous Extra Pyramidal Side Effects. Consider Gastro Oesophageal Reflux Disease (GORD) and appropriate management per local protocol or evidence-based guidelines.
Nocturnal	May occur at any time	Review dose schedule. Avoid fluids before bedtime. Seek medical review.

• Adapted from: Taylor D, Barnes T, Young A. The Maudsley Prescribing Guidelines in Psychiatry, 14th Edition Wiley Blackwell 2021.

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NIMC	(clozapine titration)		URN:	
Ward/unit	ervice: Year: 20 patient number (CPN):		Family name: Given names: Address:	Not a valid prescription unless identifiers present
			Date of birth:	Sex: □M □F
	Attach ADR sticker		First prescriber to print p	patient name and check label correct:
	(See current NIMC for details)			
Do not pr	rescribe clozapine until appro	ved by Cloza	pine Monitoring Centre an	d Clozapine Patient Number allocated

Affix patient identification label here

Allix putio	nt label here
URN:	
Family name:	Not a valid
Given names:	prescription unless
Address:	identifiers present
Date of birth:	Sex: □M □
First prescriber to print p	atient name and check label correct:

Family name:	Given name(s):	URN:

Clozapine bl	lood results monitoring system	Recommended action
Green Range	WBC greater than 3.5 x 10°/L	Continue clozapine therapy.
	and	
	Neutrophils greater than 2.0 x 10°/L	
Amber Range	WBC 3.0-3.5 x 10 ⁹ /L	Continue clozapine therapy with twice-weekly
_	or	blood tests until return to 'green' range.
	Neutrophils 1.5–2.0 x 10 ⁹ /L	
Red Range	WBC less than 3.0 x 10 ⁹ /L	Stop clozapine therapy immediately. Refer to local
_	or	clozapine protocol for management guidelines.
	Neutrophils less than 1.5 x 10 ⁹ /L	

	Co	onduct	weekl	y blood	l moni	toring	as indi	cated i	n Cloz	apine ı	monito	ring or	n page	1
3	40	-4 /	4 /	40	47	40	40	00		00	00	0.4		-

			Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Day
			Date day/month																												1 / 1	Date day/month
Date	Medicine Clozapine		Dose	mg		Dose																										
Oral	Frequency Morning	Prescriber to enter individual doses	Prescriber initials																													Prescriber initials
	r signature	rint)	0800hrs Administrator 1																													0800hrs Administrator 1
Contact d	etails		initials																													initials
Pharmacy Comment			Administrator 2 initials (if required by local procedures)																													Administrator 2 initials (if required by local procedures)
Date	Medicine Clozapine		Dose	mg		Dose																										
Oral	Frequency Evening	Prescriber to enter individual doses	Prescriber initials																													Prescriber initials
	r signature r name (please pretails	rint)	2000hrs Administrator 1 initials																													2000hrs Administrator 1 initials
Pharmacy Comment			Administrator 2 initials (if required by local procedures)																													Administrator 2 initials (if required by local procedures)
			Pharmacist review																													Pharmacist review

Clozapii	Clozapine titration schedule (this table is a guide only)													
	f rapid or slower titration required refer to the treating psychiatrist. n an attempt to minimise side effects the following dosing schedule is suggested:													
In an attemp	ot to minim	nise side e	ffects the	following	dosing so	chedule is	suggeste	d:						
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Morning	12.5mg	25mg	25mg	25mg	25mg	25mg	25mg	25mg	50mg	50mg	50mg	50mg	50mg	50mg
Evening	vening 25mg 25mg 50mg 75mg 100mg 100mg 125mg 125mg 125mg 150mg													
Titration be	Fitration beyond 200mg/day: If well tolerated, the daily dose may be increased slowly in increments of 25–50mg.													

Dosing recommendations if clozapine dose is missed for greater than 48 hours

- Obtain psychiatric review prior to recommencing clozapine.
- Recommence at 12.5mg once or twice daily on the first day. If well tolerated, the dose may be increased slowly as suggested in the Clozapine titration schedule (on page 2 opposite).

This is a guide only – for further dosing options refer to treating psychiatrist. For frequency of blood testing required, refer to Blood monitoring section (on page 4).

		review
Reason for not adm Codes MUST be circled	iniste	ring
Absent	A	On leave (L)
Fasting	F	Not available – obtain supply or contact prescriber
Refused – notify prescriber	R	Withheld – enter reason in clinical record
Vomiting	V	Self administered S

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