Clozapine Bl	ood Results Monitoring System	Recommended Action
Green Range	WBC greater than 3.5 x 10 ⁹ /L AND Neutrophils greater than 2.0 x 10 ⁹ /L	Continue clozapine therapy
Amber Range	WBC 3.0 - 3.5 x 10°/L AND/OR Neutrophils 1.5 - 2.0 x 10°/L	Continue clozapine therapy with twice-weekly blood tests unti return to "green" range
Red Range	WBC less than 3.0 x 10°/L AND/OR Neutrophils less than 1.5 x 10°/L	Stop clozapine therapy immediately. Contact haematologist and Clozapine Monitoring Centre

Recommencing Therapy after Interruption

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

- Obtain psychiatric review prior to recommencing clozapine
- Recommence at 12.5 mg once or twice daily on the first day. Refer to what side effects the patient had previously when starting clozapine. The rate of re-titration can be adjusted to take into account emergent side effects and
- This is a guide only for further dosing options refer to treating psychiatrist.

	Blood Test Monitoring after Interruption of Therapy												
Monitoring frequency	Clozapine missed for 72 hours or less	Clozapine missed for more than 72 hours up to 28 days	Clozapine missed for more than 28 days										
Weekly	No change in monitoring	Monitor weekly for at least 6 weeks or for as long as necessary to achieve a total of 18 weeks of weekly monitoring	Recommence as for a new patient										
Monthly		Monitor weekly for 6 weeks then continue with monthly monitoring if no problems detected											

	Associated with Clozapine Therapy	Modified from the Maudsley Prescribing Guidelines 14th ed 2021					
Side effect	Signs and symptoms / Onset	Recommended Action					
Neutropenia / agranulocytosis	WBC < 3.0 x 10 ⁹ /L or Neutrophils < 1.5 x 10 ⁹ /L. Flu-like symptoms such as sore throat & fever. (First 18 weeks – but may occur at any time)	Contact doctor. Withhold clozapine. Contact haematologist at Clozapine Monitoring Centre.					
Myocarditis / cardiomyopathy	Fast or irregular heartbeat at rest with rapid breathing, dyspnoea, hypotension, raised jugular venous pressure, fatigue, infective symptoms (including gastrointestinal, urinary, and/or respiratory), chest pain or fever. Cardiomyopathy may occur at any time. Myocarditis – within 4 weeks of starting)	Withhold Clozapine. Repeat ECG and echocardiogram. Check C-Reactive Protein (CRP) and troponin. Refer to cardiologist.					
Fever	> 38° C (First 4 weeks)	Contact doctor. Reduce rate of dose tirration of clozapine. Check WBC, neutrophils, troponia and CRP. Physical examination for signs of infection. Consider ECG, Echocardiogram. Give paracetamol and notify doctor to exclude agranulocytosis / myocarditis.					
Seizures	Increases with high doses, rapid dose titration, concurrent use of drugs that lower seizure threshold and preexisting seizure disorders and concurrent illness. (May occur at any time)	Medical emergency, manage seizure. Withhold clozapine for one day and restart at half the dose. Consider prophylastic antiepileptic. Risk of seizures increases with higher seizur clozapine levels, check serum clozapine levels.					
Hypersalivation	Excessive drooling – Very troublesome at night. (First few months)	Contact doctor. Check with pharmacist for pharmacological options.					
Constipation	Less frequent bowel motions, hard stools, abdominal bloating, cramping or pain, decreased appetite or fatigue. (Usually persists) Severe Clozapine Induced Gastrointestinal Hypomotility (CIGH) can be fatal.	Contact doctor. Recommend increased fluid intake and exercise. Consider pre-emptive laxatives for al patients. Review contributing medicines and consider dose reduction. Treat CICH aggressively with laxatives and consider cessation of clozapine if treatment fails. Avoid bulk forming laxatives.					
Nocturnal enuresis	Loss of bladder control, especially at night. (May occur at any time)	Contact doctor. Avoid fluids after 7pm. Check males for other causes. Continence referral. Check with pharmacist for pharmacological options.					
Weight gain	This may occur early in treatment and can be significant	Dietary and lifestyle counselling before weight gain occurs. Ongoing monitoring and support.					

This is not an exhaustive list of side effects. Please see product information for further advice. It is recommended that concurrent use of antipsychotic therapy be avoided where possible as this increases the patient's risk of side effects.

WA Health acknowledges contributions from Queensland Health Medication Management Services in the development of this chart.

This chart must be	used under the supervision of a psychiatrist. Please use ID label or block prin	t	
HOSPITAL NAME	Family Name:	UMRN	SEX
WA CLOZAPINE INITIATION	NOT A VALID		
AND TITRATION CHART	Given Name(s) PRESCRIPTION UNLESS	D.O.B.:	
Attach ADR Sticker	IDENTIFIERS PRESENT		
ALLERGIES & ADVERSE REACTIONS (ADR) Nil Known Unknown (tick appropriate box or complete of the state of the			
Drug (or other) Reaction/Type/Date Initials	First prescriber to print patient name and check labe	l correct:	
SignPrintDate	Ward/Unit Consultant		
Tick the applicable box: ☐ Initiating / Recommencing after interruption of 3 m ☐ Recommencing after interruption of more than 48 h ☐ Continuing titration	ours up to 3 months (refer to dose and monitoring re-	en) quirements on p	age 4)
	mmencement Screen		
Pre-commencement Screen is required t	o be completed:	0	

All sections below must be completed prior to clozapine initiation or when clozapine has been discontinued for 3 months or mo	re.
Medical History:	
Patient has chronic medical conditions No Yes Details	
Patient has a personal or family history of cardiovascular disease No Yes Details	
Patient has a history of epileptic seizures No Yes Details	
Clozapine checkist: Patient has been adequately trialled on 2 or more other antipsychotics No Yes Details Clozapine registration form for new patients has been submitted PBS eligibility Continuation of supply at a registered clozapine centre has been considered Patient/carer/family has signed the Monitoring System Privacy statement Patient/carer/family has been provided with written Medication Information and the treatment explained Patient/guardian has given informed consent or second opinion obtained (if applicable) All Pre-Clozapine Baseline Tests have been performed before clozapine commencement Full blood picture (FBP), CRP and troponin to be performed within 10 days before clozapine commencement	
Consultant Name: Signature: Date:	

Initial Observations:

BARCODE AREA

01/24

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Urgent medical team notification required if any of the following observed:

Temperature > 38° C Pulse > 100 bpm Postural drop > 30 mmHg Respiratory Rate < 8 or > 22 breaths/minute

Or patient is unresponsive U=Unresponsive)

HCHxxxxxxxx Page 1 of 4

HOSPITAL NAME

WA CLOZAPINE INITIATION **AND TITRATION CHART**

Please use ID label or block prin	t	
Family Name:	UMRN	SEX
NOT A VALID		
Given Name(s) PRESCRIPTION UNLESS	D.O.B.:	
IDENTIFIERS PRESENT		
Address:		

Year	20	
ıeaı	ZU	

Clozapine Dose Orders

<u>DO NOT</u> prescribe clozapine until approved by Clozapine Monitoring Centre and Clozapine Patient Number allocated. Commence clozapine preferably in the morning to allow hourly monitoring for the first six hours.

Medica	tion C	lozapine	Formul	ation:		С	lozapine Pa	atient Nun	nber:	
Route:	oral		Indication:							
Pharma	acy use						Weekly	monitoring	until:	/ /
Date	Day	Blood test due (✓)	Pres Signature	criber Name (PRINT)	Morning dose 08:00hr	Nurse initials Nurse 1/ Nurse 2	Night dose 20:00hr	Nurse initials Nurse 1 / Nurse 2	Drug level	Pharmacy
	1									
	2									
	3									
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	Clozapine Dose Titration Schedule														
This tabl Patients Titration (maximu	> 65 yea beyon	ars of ac	ge may ig/day :	ly and d require	lose titra a slowe	atio er d	n sh ose	ould be	individ e titration	ualised on regin	– refer t		0. ,		
Day	1	2	3	4	5		6	7	8	9	10	11	12	13	14
Morning	12.5 mg	25 mg	25 mg	25 mg	25 mg	25	n ıg	25 mg	25 mg	50 mg	50 mg	50 mg	50 mg	50 mg	50 mg
Evening	$\supset \subset$	$\supset \subset$	$\supset \subset$	25 mg	25 mg	50	mg	75 mg	100 mg	100 mg	100 mg	125 mg	125 mg	125 mg	150 mg

Div	Monitoring Che							
Bloo	d group		eight	m	Smoking	status: Sm	noker ∐ Noi	n Smoker
	Intervals	Pre-cloza baseline	DINE	Day 7	Day 14	Day 21	Day 28	Minimum ongoing
	intervals	Date	Results	Date:	Date:	Date:	Date:	monitoring
	Dietician review		Performed					Annually
/ nurs	Weight		kg					
doctor	Waist circumference		cm					Weekly first 18 weeks – then every 28 days
ted by dieticia	BMI weight (kg) / height (m²)							every 26 days
To be completed by doctor / nurse / dietician	Constipation monitoring	Daily	checks	for 4 wee	ks: Use k	owel cha	art	Inpatients: minimum weekly Outpatients: check bowel habits at each review
	Full physical exam		Performed					Annually
	Full Blood Count		Performed	Performed	Performed	Performed	Performed	Weekly first 18 weeks - then
	White Blood Count		x10º/L	x10 ⁹ /L	x10 ⁹ /L	x10 ⁹ /L	x10 ⁹ /L	every 28 days
	Neutrophils Absolute		x10º/L	x10º/L	x10º/L	x10º/L	x10º/L	
	Eosinophils Absolute		x10º/L	x10º/L	x10 ⁹ /L	x10º/L	x10 ⁹ /L	
	Liver function test		Performed					6 monthly
	Urea & Electrolytes		Performed					6 monthly
loctor	Fasting plasma glucose		mmol/L					
To be completed by doctor	Total cholesterol (fasting)		mmol/L					At 3 months,
mplet	LDL (fasting)		mmol/L					6 months, then 6 monthly
be oc	HDL (fasting)		mmol/L					
욘	Triglycerides (fasting)		mmol/L					
	Troponin		nanograms/L	nanograms/L	nanograms/L	nanograms/L	nanograms/L	As clinically
	C-Reactive Protein (CRP)		mg/L	mg/L	mg/L	mg/L	mg/L	indicated thereafter
	ECG (QT interval)							Weekly for first 4 weeks, then as clinically indicated
	Cardiac echocardiogram							At 3 months, then 1, 2, 5 yrs
	Beta HCG (female)							When needed

Not Available – obtain supply and/or notify doctor, N consider incident report

Reason For Not Administering (codes must be circled)

Refused – notify doctor

in clinical record

Withheld - enter reason

R Vomiting – notify doctor

Self-Administering -

observed or claimed

V

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(A) On Leave

Absent

Fasting