

North of Tyne, Gateshead and North Cumbria Area Prescribing Committee Lithium

Shared Care Guideline (Amber)

Introduction	Uses/Licensed Indications for Adult patients:					
	Management of acute manic or hypomanic episodes					
	Prophylaxis against bipolar disorders					
	 Management of treatment resistant depression 					
	Control of aggressive or self-harming behaviours					
	Refer to: NICE CG185: Bipolar disorder: assessment and management					
	(https://www.nice.org.uk/guidance/cg185)					
	Criteria for Shared Care:					
	The patient/carer is in agreement with the shared care arrangement					
	The patient must be clinically stable					
	Lithium dose has remained constant for a minimum of four weeks					
	Serum lithium levels within patient specific target range for a minimum of two					
	consecutive results covering a minimum period of four weeks					
	Exclusions for Shared Care:					
	Unstable disease state					
	 Unstable dose and serum levels not in patient specific target range 					
	 Patient/carer do not consent to shared care 					
	Dosage and preparations:					
	 MUST be prescribed by brand and form due to difference in bioavailability 					
	 Dosage as determined by serum lithium levels. 					
Monitoring	Lithium serum levels					
Monitoring	Narrow therapeutic index. Range 0.4-1.0mmol/I (CNTW specialist to					
	communicate patient specific range where appropriate)					
	 Blood samples to be taken 12 hours after previous dose 					
	 Minimum 3 monthly monitoring required for stable patients for at least 12 					
	months					
	 Minimum 6 monthly monitoring after this time if level <0.8mmol/l and no risk 					
	factors from below:					
	 Older people 					
	 Co-prescribed interacting drugs 					
	 Impaired renal/thyroid function, raised calcium or other complication 					
	 Poor symptom control 					
	 Poor adherence 					
	 Monitor lithium level more frequently if urea and creatinine levels have risen 					
	OR eGFR has reduced over 2 or more results.					
	 Monitor weekly after any dose change or level out of range until stable 					
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	Physical health monitoring (minimum 6 monthly)					
	Weight/BMI					
	• U&Es					
	Renal function (eGFR)					
	Thyroid function (TSH)					
	Calcium					
	Annual physical health check (where clinically indicated)					
	• BP					
	Lipid profile					
	• FBG/HbA1c					

	• ECG				
Specialist Responsibilities	Establish the diagnosis, suitability & need for lithium treatment and provide NP- Lithium Information Pack. Follow the CNTW Lithium practice guidance note (CNTW C38 PPT PGN 19) de the initiation and stabilisation of lithium.				
	 Once stabilised and all checks completed, to ensure: Patient consulted and agrees to shared care arrangement Shared care agreement form completed and sent to GP requesting transfer GP provided with details of the patient's management plan including: Indication for prescribing Serum lithium level range required Last recorded serum lithium level, calcium, renal & thyroid test results Brand of lithium used, tablet or liquid strength, dose & formulation When the patient received the last supply of lithium & when he/she will require the next supply Details of any potentially interacting medication that the patient is currently taking, with further advice as necessary Details of the patient's next outpatient visit &/or frequency of subsequent follow-up Name and telephone contact details of the specialist and CPN/Care co-ordinator (including secure email address where available) Specialist available for advice if the patient's condition changes, for dosage queries and ensure procedures are in place for re-assessment when necessary. GP notified of any changes in therapy and if the patient does not attend appointments for specialist review within 1 month, plus specific information on 				
GP	the planned course of action. Monitoring:				
Responsibilities	 Monitor serum lithium levels and communicate results with mental health specialist. Physical health monitoring/blood tests and annual physical health checks as outlined in the 'Monitoring' section above. Update monitoring results in the NPSA information pack if available. Consider mental state, adherence, side-effects at each visit. See 'Adverse Effects and Toxicity' section below if toxicity clinically suspected or serum levels high (>1.0mmol/l) 				
	 Prescribing: Prescribe lithium on a maximum monthly basis Ensure prescribe by brand and form Adjust dose as necessary according to levels, if needed discuss with mental health specialist for prescribing support. Inform mental health specialist of dose and monitoring results Be aware of potentially hazardous drug interactions when prescribing (see 'Common Drug Interactions' section below and also refer to BNF). Advice: Contact mental health specialist if advice needed regarding: 				
	 Mental health treatment (including dose adjustment), Mental health status of patient, Physical health concerns relating to lithium therapy Patient does not attend appointments. When seeking advice, inform mental health specialist of any new medication or non-psychiatric secondary or tertiary referral				
	1				

	Discontinuation: Slow withdrawal required to avoid possible relapse (immediate					
	withdrawal required if toxic). Contact mental health specialist for advice					
	If unable to accept shared care prescribing, contact mental health specialist to					
	discuss these exceptional cases.					
Adverse	Side effects: GI disturbances (e.g. nausea, diarrhoea, dry mouth); fine tremor, thirst,					
Effects and	polyuria, polydipsia, weight gain, oedema. May be short term and can often be					
	prevented or relieved by a moderate reduction in dose. See SPC for full list					
Toxicity	Toxicity: Can occur without a rise in serum level. Can be fatal					
	Signs of lithium toxicity: blurred vision, muscle weakness, drowsiness coarse tremor,					
	slurred speech, ataxia, confusion, convulsions, nausea, vomiting and ECG changes.					
	If lithium toxicity suspected, stop Lithium immediately, measure lithium serum level					
	and renal function and seek advice from mental health specialist for future dosing. If					
	clinical condition severe, urgently refer patient to acute secondary care					
	services.					
	Causes of toxicity include drug interactions, renal disease, concomitant diarrhoea or					
	vomiting (dehydration); sodium depletion.					
	If levels high (>1.0mmol/l) but no signs of toxicity clinically, same day action required					
	- investigate reason and correct if possible. If no clear reason or following a pattern					
	of elevated levels, seek advice from mental health specialist on future dosing.					
	Recheck serum level in 1 week.					
Common Drug	Risk of lithium toxicity in sodium depletion or reduced renal clearance so avoid					
Interactions	concurrent diuretics (particularly thiazide diuretics), NSAIDs, ACE inhibitors and Angiotensin-II receptor antagonists.					
	Risk of potentially serious serotonin syndrome with concurrent serotonergics					
	including SSRIs, triptan migraine products, certain opioids e.g. tramadol, which					
	resolves rapidly on stopping serotonergic agent.					
	Risk of neurotoxicity due to concurrent diltiazem, verapamil, methyldopa,					
	carbamazepine, phenytoin, haloperidol, phenothiazines or SSRIs					
	Theophylline/aminophylline increase lithium excretion therefore can reduce plasma					
	concentration of lithium.					
	Amiodarone manufacturer advises avoidance of lithium due to risk of ventricular					
	arrhythmias					
Communication	Contact details (email and telephone) of prescriber and/or team will be					
	provided on referral.					
	Out of hours:					
	North Cumbria - Single Point of Access Line: Tel: 0300 123 9015					
	North of Tyne - Initial Response Team – Northumberland, Newcastle, North Tyneside					
	Tel: 0303 123 1146					
	South of Tyne - Initial Response Team – South of Tyne and Wearside Tel: 0303 123					
	1145					
This infor	mation is not inclusive of all prescribing information and potential adverse effects.					

This information is not inclusive of all prescribing information and potential adverse effects. Please refer to full prescribing data in the SPC or the BNF

Discharge of patients into the care of the GP

Patients prescribed lithium should not usually be discharged from secondary care mental health services. In exceptional circumstances an individual agreement for discharge may be considered in response to a patient who expressly indicates that they do not wish to remain within secondary care mental health services. In line with NICE CG185 - Bipolar disorder, these patients should be offered the option to return to primary care for further management providing symptoms have responded effectively to treatment and they remain stable.

Discharge to primary care must be a **shared** decision between the patient, the GP and the specialist prescriber and the rationale for discharge must be clearly documented. Discharge should only be considered if lithium treatment is stable for a significant period of time (usually about 1 year) and the patient is adherent to treatment and compliant with monitoring requirements. Renal and thyroid function must be stable and serum levels in range.

A medication plan should be agreed and a copy of the plan given to the patient and the GP. The patient should be encouraged and supported to visit their GP and discuss the plan before discharge from secondary care services.

Prepared by: CNTW NHS FT Implementation Date: June 2022 Review Date: June 2024

If there is deterioration in mental or physical health related to lithium therapy, or the patient fails to attend appointments, the GP should contact the mental health specialist for advice (see communication section above). It may be necessary for the patient to return to secondary care mental health services under a shared care arrangement.

Lithium - Shared Care Request/Confirmation

- Specialist prescriber to complete first section of form, following discussion with patient, and send to patient's GP
- GP to complete second section of form and return to specialist prescriber within 28 days

	Patient details (use hospital label if preferred)
Specialist Prescriber:	Name:
Department:	nume.
	Address:
Hospital/Team:	Post code:
Team/prescriber email:	
Teem/nreceriber telenhone.	M/F:
Team/prescriber telephone:	NHS or Hospital no:
	DOB:

Treatment Requested for Prescribing in Accordance with an Approved **Shared Care Arrangement**

Drug Name Indication	Lithium (State brand)	Dose	Frequency			
Other Informa e.g. Target Ra	tion ange					
Signed (Spec Prescriber)	cialist	Name (print)	Date			
To be completed by	y GP					
			Please tick one box			
I ACCEPT the proposed shared care arrangement for this patient						
or						
I ACCEPT the proposed shared care arrangement with the caveats below						
or						
I DO NOT ACCEPT the proposed shared care arrangement for this patient \square						
My caveats / reason(s) for not accepting include:						
Signed	Nam	e (print)	Date			
(Patient's GP)						
N.P. Participati	on in this charad aara	prrongoment implies the	t procoribing rocne			

N.B. Participation in this shared care arrangement implies that prescribing responsibility is shared between the specialist prescriber and the patient's GP