

South Sefton Clinical Commissioning Group Southport and Formby Clinical Commissioning Group

Shared Care Framework for

Lisdexamfetamine the treatment of ADHD in adults

Date approved by Joint Medicines Operational Group 5/10/18

1. Background	Attention deficit hyperactivity disorder (ADHD) is a chronic, neurodevelopmental disorder associated with inattention, hyperactivity and impulsiveness. In about two thirds of all patient's symptoms of ADHD can persist into adulthood. NICE recommend that treatment for ADHD should be initiated by a healthcare professional with expertise in ADHD and should be based on a comprehensive assessment and diagnosis. Continued prescribing and monitoring of drug therapy can be performed by the primary care clinicians, under shared care arrangements.
2. Licensed Indications	Lisdexamfetamine is indicated as part of comprehensive treatment programme for ADHD in children and adolescents aged 6 years and over when response to previous methylphenidate treatment is considered clinically inadequate. Lisdexamphetamine is also indicated as part of a comprehensive treatment programme for ADHD in adults Treatment must be under the supervision of an appropriate specialist in childhood, adolescent and/or adult behavioral disorders.
3. Locally agreed off- label indications	Not applicable
4. Specialist Initiation and dose titration	Dosage should be individualized according to the therapeutic needs and response of the patient.
	The starting dose is 30 mg taken once daily in the morning. When in the judgment of the clinician a lower initial dose is appropriate, patients may begin treatment with 20 mg once daily in the morning. The dose may be increased by 10 mg or 20 mg increments, at approximately weekly intervals. The maximum recommended dose is 70 mg/day.
	Dose adjustments may be necessary in severe renal insufficiency and the maximum dose should not exceed 50mg/day.
	In order to optimise drug treatment, the initial dose should be titrated against symptoms and side effects over 4–6 weeks. [NICE CG72] Doses should be gradually increased until there is no further clinical improvement in ADHD (that is, symptom reduction, behavior change, improvements in education and/or relationships) and side effects are tolerable. Treatment should be discontinued if there is no response after 1 month of maximum tolerated dose.

	Shared Care may only be commenced following specialist initiation, stabilisation and review of treatment. In addition, formal agreement must have been received from the primary care prescriber.
5. Baseline investigations, initial monitoring and dose titration to be undertaken by the specialist.	Baseline Investigations: A comprehensive history of concomitant medications Full mental health and social assessment Full medical history and physical examination including: assessment of history of exercise, syncope, undue breathlessness and other cardiovascular symptoms Heart rate and blood pressure Weight

• Pregnancy or breastfeeding status

An ECG if there is past medical or family history of serious cardiac disease, a history of sudden death in young family members or abnormal findings on cardiac examination.

Family history of cardiac disease Examination of the cardiovascular system.

Risk assessment for substance misuse and drug diversion.

Ongoing monitoring by specialist:

- To optimise drug treatment, the initial dose should be titrated against symptoms and side effects over 4–6 weeks. Doses are gradually increased until there is no further clinical improvement in ADHD symptoms (behaviour change, improvements in education and or relationships) and side effects are tolerable
- Blood pressure and pulse every 6 months or at each visit and after every dose adjustment.
- Clinical need, benefit and side effects should be reviewed annually. Lisdexamfetamine should be continued for as long as remains clinically effective.
- Weight 3 months after starting treatment then at every adjustment of dose or visit at least every 6 months.
- Treatment should be discontinued if there is no response after 1 month of maximum tolerated dose.

Duration of treatment to be determined by the specialist based on clinical response and tolerability.

Trial periods off medication (drug holiday) to assess the patient's condition without treatment may be deemed appropriate by the ADHD specialist; this will be undertaken and supervised by the specialist who will advise the patient and GP of the outcome.

Termination of treatment will be carried out by the specialist.

6. Ongoing monitoring requirements to be undertaken by Primary Care.		abilisation continue prescribing and the specialist in accordance with the
	Monitoring	Frequency
	Blood pressure and pulse	Every 6 months
	Weight and appetite	
	Compliance check	Every 6 months
	including checking for any	
	signs of diversion	
7. Pharmaceutical	Side effects Route of administration	Ovel
aspects		Oral
(including route of	Formulation	Hard capsules containing 20
administration,		mg, 30 mg, 40 mg, 50 mg, 60 mg and 70 mg of
formulation, method of		lisdexamfetamine dimesylate
administration, legal		iisacxariiictariiiic airresylate
category)	Method of administration	Lisdexamfetamine may be taken with or without food.
		Lisdexamfetamine capsules may be swallowed whole or the capsule opened, and the entire contents emptied and mixed with a soft food such as yogurt or in a glass of water or orange juice. If the contents include any compacted powder, a spoon may be used to break apart the powder in the soft food or liquid. Capsule contents should be stirred until completely dispersed and the entire mixture of soft food or liquid
		consumed immediately; it should not be stored. In the event of a missed dose, dosing can resume the next day. Afternoon doses should be avoided because of the potential for insomnia.
	Other important information	Lisdexamfetamine should be withdrawn slowly to avoid inducing depression or renewed hyperactivity.
		Alcohol may exacerbate the CNS adverse effects of lisdexamfetamine. It is advisable for patients to abstain from alcohol during treatment.
		Consistent with other stimulants, the potential for abuse, misuse or diversion of lisdexamfetamine should be considered prior to prescribing.

	Legal Category	Lisdexamfetamine is a schedule 2 controlled drug and prescriptions must comply with full legal requirements for the prescribing and supply of controlled drugs. NICE NG46 recommends prescribing enough of a controlled drug to meet the person's clinical needs for no more than 30 days, unless there are exceptional circumstances.
8. Contraindications Please note this does not replace the Summary of Product Characteristics (SPC) and should be read in conjunction with it.		scular disease esis
9. Significant Drug Interactions For a comprehensive list consult the BNF or Summary of Product Characteristics	co-prescribed: Lisdexamphetamine is an aidexamphetamine. Antidepressants: Risk of other side effects MAOIs: Contraindicated; Antihypertensive medicantihypertensive effective Lithium attenuates the	ifects of amfetamines. ition of metabolism and excretion of orption of ethosuximide, phenobarbital and mphetamines. ints possibly enhance the effect of edecrease effectiveness of rease of side effects of antipsychotics. intentiate the analgesic effect of narcotic ation of the action of dexamfetamine. concurrent use with amfetamines increases tamines and is potentially fatal. Avoidance or

acidifiers and reduced by urinary alkalinisers.

Gastrointestinal acidifying agents (guanethidine, reserpine, glutamic acid HCl, ascorbic acid, fruit juices etc.) lower the absorption of amfetamines.

10. Adverse effects and management

For a comprehensive list consult the BNF or Summary of Product Characteristics

The most common adverse effects include:

- Metabolic effects such as weight loss and growth restriction. In children, slow weight gain and a reduction in attained height and suppression of growth during prolonged use.
- Psychiatric effects such as insomnia, agitation, aggression, anxiety, labile affect tics, mood swings, and depression.
- Central nervous system effects such as dizziness sleep disturbances, dyskinesia, psychomotor hyperactivity, irritability, and headache.
- Cardiovascular system effects such as increased blood pressure, tachycardia, palpitations and cardiomyopathy.
- Gastrointestinal effects such as dry mouth, diarrhoea, constipation, abdominal cramps, nausea and vomiting and decreased appetite.
- Urogenital effects such as sexual dysfunction.
- Respiration disorders such as dyspnoea
- Ophthalmological effects such as blurred vision, mydriasis.
- Other disorders such as pyrexia, fatigue

GPs should refer any patients with suspected side effects to the ADHD specialist irrespective of the advice in the following table

Lisdexamfetamine is a black triangle drug. Any suspected adverse reactions should be reported to the MHRA via the Yellow card scheme on http://yellowcard.nhra.gov.uk

Adverse Effect	Action
Sustained resting tachycardia, severe chest pain, dyspnea and unexplained syncope or other symptoms suggestive of cardiac disease.	Discontinue treatment. Seek prompt cardiac specialist advice and notify the initiating specialist team
Clinically significant increases in blood pressure, arrhythmia	Exclude other causes and seek advice from the initiating
Reduced weight	Continue treatment. Provide advice on healthy diet. The patient should be advised to consider taking additional meals or snacks early in the morning or late in the evening when the effects of the drug have worn off. If weight loss becomes a concern, seek ADHD specialist advice.
Increase in seizure frequency or new-onset seizures	Refer to the initiating specialist team. Discontinuation or switching of treatment may be appropriate.

	Development or worsening of psychiatric disorders including psychotic or manic symptoms, aggressive or hostile behavior, anxiety, agitation, motor or vocal tics and suicidal ideation	Refer to the initiating specialist team. Discontinuation or switching of treatment may be appropriate.
	Central nervous system effects such as dizziness, dyskinesia, psychomotor hyperactivity, headache	Usually temporary. If persisting, refer to initiating specialist. Dose reduction or discontinuation of treatment may be necessary.
	Severe blood, kidney and liver disorders (incidental finding)	Exclude other causes. Repeat blood tests for confirmation. Seek initiating specialist advice if it is suspected the adverse effect is secondary to the drug. Discontinuation of treatment may be considered.
	Glaucoma or other severe visual disturbances	Seek ophthalmological advice and notify the ADHD specialist team. Discontinuation of the treatment may be considered by the specialist team.
	Diarrhea, abdominal cramps, nausea, vomiting	Continue treatment. May be alleviated by administering medication with food. Exclude other causes. Seek ADHD specialist advice if symptoms become severe. Dose reduction or discontinuation of treatment may be considered.
	Insomnia	Usually transient, Continue treatment. Provide sleep hygiene advice. Timing of doses may need to be adjusted with ADHD specialist advice.
11. Advice to patient and carers	drowsiness and visual disturband affect the patient's ability to drive	camphetamine can cause dizziness, ces. It can impair cognitive function and e safely. This class of medicine is in the n under 5a of the Road Traffic Act 1988
	delay	disorders or seizures to their GP without
	It is advisable for patients to abs alcohol can worsen the side effe	tain from alcohol during treatment as octs of lisdexamphetamine.

12. Pregnant or Breast feeding	Seek specialist advice for prescribing decision	
13. Specialist Contact Information	Mersey Care NHS Foundation Trust South Sefton Neighbourhood Centre Park Road Waterloo Liverpool L22 3XR Tel: 0151 330 8500	
14. Additional information	Where patient care is transferred from one provider to another, a new shared care agreement must be completed.	
15. References	Summary of product characteristics for Lisdexamfetamine NICE guidelines (CG72) 2008: Attention deficit hyperactivity disorder: Diagnosis and Management Updated August 2018 with Nice Guidelines (NG87) 2018: Attention deficit hyperactivity disorder: diagnosis and management https://www.nice.org.uk/guidance/ng87	
	NICE CKS – ADHD British National Formulary	

Appendix 1: Policy for Shared Care

Shared care is only appropriate if it provides an optimum solution for the patient and it meets the criteria outlined in the Shared Care section of the Pan Mersey **Definitions and Criteria for Categorisation of Medicines in the Pan Mersey Formulary** document.

Before prescribing responsibilities are transferred to primary care:

- Prescribing responsibility will only be transferred when the consultant and the patient's GP agree that the patient's condition is stable.
- All information required by the shared care framework for the individual medicine has been provided to the patient's GP.
- Patients will only be referred to the GP once the GP has agreed to the Shared Care Agreement and returned signed copies.

Inherent in any shared care agreement is the understanding that participation is at the discretion of the GP, subject to the availability of sufficient information to support clinical confidence.

Specialist Responsibilities in Shared Care

- To initiate the medicine, prescribe, monitor for toxicity and efficacy as described by the shared care framework until the patient is stabilised.
- To ensure the patient or their carer:
 - o Is counselled with regard to the risks and benefits of the medicine.
 - Provide any necessary written information to the patient with regard to the individual medicine including patient information leaflets on individual drugs.
 - Obtain and document informed consent from the patient when any medicines is prescribed for an off-label indication for any condition
- To be familiar with the shared care framework.
- To provide all information to the patient's GP as required by the shared care framework when prescribing responsibility is initially transferred and at any subsequent times as necessary for safe and effective treatment of the patient.
- To assess the patient regularly as necessary for the duration of therapy.
- To review the patient promptly if required by the GP concerned.
- To meet any additional requirements as required by the individual medicine shared care framework.
- To communicate failure of a patient to attend a routine hospital review and advise the GP of appropriate action to be taken.

Following the addition of a new drug to an existing regime covered by a Shared Care Agreement, the Specialist must initiate, prescribe and monitor the new drug in accordance with the relevant shared care agreement including subsequent review and inform the GP of this. A new Shared Care Agreement must then be initiated for the new drug.

Primary Care Responsibilities in Shared Care

To reply to a written request for Shared Care within 21 days ensuring both copies of the Shared Care Agreement are signed if appropriate.

If agreeing to shared care, the GP is asked to:

- To provide prescribe or manage and monitor the medicine as advised by the Specialist and in line with the individual Shared Care Framework.
- To review the patient as required by the Shared Care Framework
- To make appropriate and contemporaneous records of prescribing and/or monitoring and to note the existence of the Shared Care Agreement on the patient's clinical record. A READ code of "6652 Shared Care-Specialist/GP" can be used.
- To be familiar with the individual Shared Care Framework.
- To report any adverse effects of treatment to the specialist team.
- To inform the Specialist of any relevant change in the patient's circumstances.
- To seek Specialist advice as appropriate.
- To meet any additional requirements as required by the individual Shared Care Framework.
- To respond to Specialist communication relating to any change or addition to the patient's treatment covered by the Shared Care Agreement.

Appendix 2: Shared Care Agreement

Request by Specialist Clinician for the patient's GP to enter into a shared care agreement

Part 1

To be signed by Consultant / Associate Specialist / Specialist registrar or Specialist Nurse (who must be a prescriber)

Date	
Name of patient	
Address	
Patient NHS No	 If using addressograph label, please attach one to each copy
Patient hospital unit No	
Diagnosed condition	
Dear Dr	
I request that you prescribe	
(1)	
(2)	
for the above patient in accordance with the encl	osed shared care framework.
Last Prescription Issued: / / Next Supply D	
I confirm that the patient has been stabilised and re-	viewed on the above regime in accordance with
the Shared Care Framework and Policy.	
I confirm that if this is a Shared Care Agreement for	a drug indication which is unlicensed or off label,
informed consent has been received.	

Details of Specialist Clinicians

Name	Date
Consultant / Associate Specialist / S	pecialist Registrar / Specialist Nurse *circle or <u>underline</u> as appropriate
Signature	
	name and contact details of the Consultant. s made by a Specialist Nurse, it is the supervising consultant who r the agreement.
Consultant:	
Contact details:	
Telephone number:	Ext:
Address for return of documentation	
Part 2	
To be completed by Prin	mary Care Clinician
I agree to prescribeenclosed shared care framework.	for the above patient in accordance with the
GP signature	Date
GP name	Please print

GP: Please sign and return a copy **within 21 calendar days** to the address above

OR

illioilliation as app	ropriate below	•	ete the section above and	provide any supporting
Part 3 Other	Relevant I	nformatio	<u>on</u>	
Part 4 Monito	orina Reau	iirements		
	Jing Roge		<u></u>	
wormorning require	ements are de	tailed in sec	- ction 6 of the attached sh	nared care framework.
Date	ements are de		_	Blood Pressure
Date	Weight	specify	ction 6 of the attached sh	
Date Refer if:	Weight [Please thresho	specify	Pulse [Please specify threshold]	Blood Pressure
Date Refer if:	Weight [Please thresho	specify	Pulse [Please specify threshold]	Blood Pressure
Date Refer if: Details of any rec Previous investi	Weight [Please thresho	specify old] nonitoring re	Pulse [Please specify threshold]	Blood Pressure [Please specify threshold]