

Surrey Heartlands Integrated Care System Area Prescribing Committee (APC)

AMBER shared care protocol:

Methylphenidate

To treat symptoms of ADHD in children aged 6 and over in "Cohort 2" (See <u>Appendix 4</u>), who have a concurrent mental health or neurodevelopmental condition requiring specialist care or where their condition is not considered to be sufficiently stable for discharge to primary care, and where the primary care provider is participating in the Locally Commissioned Service (LCS) for ADHD

Review date - May 2027

Specialist responsibilities

- Assess the patient and provide diagnosis; ensure that this diagnosis is within scope of this shared care protocol (<u>section 2</u>) and communicated to primary care.
- Use a shared decision-making approach; discuss the benefits and risks of the treatment with the patient and provide the appropriate counselling (see <u>section 11</u>) to enable the patient to reach an informed decision. Obtain and document patient consent. Provide an appropriate patient information leaflet.
- Assess for contraindications and cautions (see <u>section 4</u>) and interactions (see <u>section 7</u>).
- Conduct required baseline investigations and initial monitoring (see section 8).
- Initiate and optimise treatment as outlined in section 5.
- Transfer to primary care is normally after the patient has been treated at the maintenance dose for 2 months and with satisfactory investigation results for at least 4 weeks. Prescribe sufficient medication (one month's supply) to enable transfer to primary care, including where there are unforeseen delays to transfer of care. Check product details for pack sizes as most products manufactured in boxes of 30 dose units.
- Prescribe in line with controlled drug prescription requirements (section 6).
- Once treatment is optimised, complete the shared care documentation and send to patient's GP practice detailing the diagnosis, current and ongoing dose, baseline and most recent test results, confirm the monitoring schedule and when the next monitoring is required. Include contact information (section 13).
- Conduct the required monitoring in <u>section 8</u> and communicate the results to primary care. After each review, advise primary care whether treatment should be continued, confirm the

ongoing dose, and whether the ongoing monitoring outlined in <u>section 9</u>. remains appropriate.

- Reassume prescribing responsibilities if the patient becomes or wishes to become pregnant.
- Reassume prescribing responsibilities if the patient develops a concurrent mental health or neurodevelopmental condition requiring specialist care where their ADHD is best managed by the specialist service
- Provide advice to primary care on the management of adverse effects if required.
- Advise primary care if treatment should be discontinued. Trial discontinuations can be supported by the specialist.

Primary care responsibilities

- Respond to the request from the specialist for shared care in writing. It is asked that this be undertaken within 14 days of the request being made, where possible.
- If accepted, prescribe ongoing treatment as detailed in the specialists request and as per section 5 taking into any account potential drug interactions in section 7.
- Adjust the dose of methylphenidate prescribed as advised by the specialist.
- Conduct the required monitoring as outlined in <u>section 9</u>.
- Assess for possible interactions with methylphenidate when starting new medicines (see section 7).
- Manage any adverse effects as detailed in <u>section 10</u> and discuss with specialist team when required.
- Stop methylphenidate and make an urgent referral to the specialist if cerebral ischaemia, new or worsening seizures, or serotonin syndrome are suspected.
- Discuss other adverse effects with the specialist team as clinically appropriate (see <u>section</u> 10).
- Refer the management back to the specialist if the patient becomes or plans to become pregnant.

Stop treatment as advised by the specialist. Trial discontinuations should be managed by the specialist.

Patient and/or carer responsibilities

- Not to drive, use other modes of transport that require a high level of alertness e.g. bicycle, scooter, operate machines or undertake skilled tasks if methylphenidate affects their ability to do so safely, e.g. by causing dizziness, drowsiness, or visual disturbances
- Avoid alcohol while taking methylphenidate, as it may make side effects worse.
- Take methylphenidate as prescribed and do not stop taking it without speaking to their primary care prescriber or specialist. Medical supervision of withdrawal is required, since this may unmask depression or chronic over-activity.

- Methylphenidate is a schedule 2 controlled drug. Patients, their family or carer may be required to prove their identity when collecting prescriptions and should store methylphenidate safely and securely. It must not be shared with anyone else. Note that where a child (under 16) presents to a pharmacy to collect their medication, pharmacists will need to decide whether to provide it to them, or request that a family member or carer collects the medicine, based on the individual circumstances.
- Tell anyone who prescribes them a medicine that they are taking methylphenidate
- Attend regularly for monitoring and review appointments with primary care and specialist. Be aware that medicines may be stopped if they do not attend appointments.
- Report adverse effects to their primary care prescriber. Seek immediate medical attention if they develop any symptoms as detailed in <u>section 11</u>.
- Report the use of any over the counter medications to their GP and be aware they should discuss the use of methylphenidate with their pharmacist before purchasing any OTC medicines.
- People of child-bearing potential should inform the specialist or GP immediately If they suspect they may be pregnant, or are planning a pregnancy

1. Background

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Methylphenidate is a central nervous system stimulant licensed as part of a comprehensive treatment programme for attention deficit hyperactivity disorder (ADHD). It may be offered as a

first line pharmacological treatment option for children aged 5 years and over and young people with ADHD who have been appropriately diagnosed (see NICE Guidance NG87 Attention deficit hyperactivity disorder: diagnosis and management). NICE recommends that people with ADHD have a comprehensive, holistic shared treatment plan that addresses psychological, behavioural and occupational or educational needs.

Methylphenidate is available as immediate-release tablets and modified-release tablets and capsules. The modified-release preparations contain both immediate-release and prolonged-release methylphenidate, and different brands have different proportions of each. Brands may therefore vary in their release characteristics and clinical effect. Modified-released preparations should therefore be prescribed by brand name.

Methylphenidate is a schedule 2 controlled substance; all legal requirements for prescribing controlled drugs should be followed. See NICE Guidance NG46 Controlled drugs: safe use and management. Risk of misuse can be reduced by using modified-release preparations.

Where a person with ADHD is treated by a Child and Adolescent Mental Health Service (CAMHS) but is approaching their 18th birthday, it is expected that CAMHS will refer to the appropriate adult service if need for ongoing treatment is anticipated.

The safety and efficacy of long-term use of methylphenidate has not been systematically evaluated in controlled trials. Patients should be reviewed for ongoing need at least annually, and the manufacturers recommend a trial discontinuation at least once yearly to assess the patient's condition

2. Indications

• Attention deficit hyperactivity disorder (ADHD) in children aged 6 years and over

3. Locally agreed off-label use

The Surrey Heartlands Integrated Care System Area Prescribing Committee recommended the use of this document for the indications as outlined above.

The following information should be provided in correspondence to support prescribing in line with this shared care.

- Dosing specific to the indication
- Relevant interaction information
- Any additional monitoring requirements over and above the shared care.
- Duration of treatment
- Frequency of review.
- Specific features of adverse effects or deterioration pertinent to the specific indication for which it is used

4. Contraindications and cautions

This information does not replace the Summary of Product Characteristics (SPC) and should be read in conjunction with it. Please see <u>BNF</u> & <u>SPC</u> for comprehensive information.

Contraindications:

- Hypersensitivity to methylphenidate or to any of the excipients
- Glaucoma
- Phaeochromocytoma
- During treatment with non-selective, irreversible monoamine oxidase (MAO) inhibitors, or within a minimum of 14 days of discontinuing those drugs, due to the risk of hypertensive crisis
- Hyperthyroidism or thyrotoxicosis
- Diagnosis or history of severe depression, anorexia nervosa/anorexic disorders, suicidal tendencies, psychotic symptoms, severe mood disorders, mania, schizophrenia, psychopathic/borderline personality disorder.
- Diagnosis or history of severe and episodic (Type I) bipolar (affective) disorder (that is not well-controlled).

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- Certain pre-existing cardiovascular disorders constitute contraindications unless specialist cardiac advice is obtained and documented. These include severe hypertension, heart failure, arterial occlusive disease, angina, haemodynamically significant congenital heart disease, cardiomyopathies, myocardial infarction, potentially life-threatening arrhythmias, disorders caused by the dysfunction of ion channels, and structural cardiac abnormalities.
- Pre-existing cerebrovascular disorders cerebral aneurysm, vascular abnormalities including vasculitis or stroke.
- Medikinet XL (not routinely recommended in Surrey Heartlands) only: history of pronounced anacidity of the stomach with a pH value above 5.5, or during therapy with H2 receptor blockers, proton pump inhibitors or antacids.

Cautions:

- Family history of sudden cardiac or unexplained death, malignant arrhythmia.
- Cardiovascular status should be carefully monitored (see section 9 & section 10)
- Underlying conditions which might be compromised by increases in blood pressure or heart rate.
- Known drug or alcohol dependency or misuse of central nervous system (CNS) stimulants: potential for abuse, misuse or diversion.
- Alcohol consumption (not recommended during treatment)
- Epilepsy: may lower seizure threshold
- Psychiatric and neuropsychiatric symptoms or disorders, including manic or psychotic symptoms, aggressive or hostile behaviour, motor or verbal tics (including Tourette's syndrome), anxiety, agitation or tension, depressive symptoms, bipolar disorder.
- Renal or hepatic insufficiency (due to lack of data)
- Leukopenia, thrombocytopenia, anaemia, or other haematological abnormalities.
- Prolonged-release tablets only: severe narrowing of the gastrointestinal tract or dysphagia; risk of obstruction
- Safety and efficacy have not been established in patients older than 60 years of age.
- Susceptibility to open-angle glaucoma.
- Pregnancy or breast-feeding (see section 12)
- Potential for abuse, misuse, or diversion.

5. Initiation and ongoing dose regimen

- Transfer of monitoring and prescribing to primary care is normally after at least 12 weeks, and when the patient's dose has been optimised and with satisfactory investigation results for at least 4 weeks.
- The duration of treatment & frequency of review will be determined by the specialist, based on clinical response and tolerability.
- All dose or formulation adjustments will be the responsibility of the initiating specialist unless directions have been discussed and agreed with the primary care clinician.
- Termination of treatment will be the responsibility of the specialist.

Initial stabilisation:

Recommended starting dose in ADHD:

- Immediate release tablets: 5 mg, given once or twice daily
- <u>Modified release tablets</u>: 18 mg daily, given in the morning. The most cost effective branded generic product should be selected. Concerta XL® is not a preferred brand within Surrey Heartlands.
- <u>Modified release capsules</u>: 10mg daily (preferred brand across Surrey Heartlands is Equasym®)

Note that the modified-release preparations contain both immediate-release and prolongedrelease methylphenidate, and different brands have different proportions of each. Brands may therefore vary in their release characteristics and clinical effect. Modified-released preparations should therefore be prescribed by brand name.

The stabilisation period must be prescribed by the initiating specialist.

Maintenance dose (following initial stabilisation):

The dose of methylphenidate should be titrated to response, usually at weekly intervals.

Maximum dose in ADHD in children (check individual product SPC):

- Immediate release tablets: up to 100 mg daily in 2-3 divided doses
- Modified release tablets: up to 108 mg once daily, given in the morning
- <u>Modified release capsules</u>: up to 100 mg daily. May be given as a single dose or divided doses, depending on brand.

The maximum daily dose varies with formulation and brand; consult <u>BNF</u> and <u>SPC</u>.

The initial maintenance dose must be prescribed by the initiating specialist.

Conditions requiring dose adjustment:

Consider trial periods of stopping medication or reducing the dose when assessment of the overall balance of benefits and harms suggests this may be appropriate. This should be undertaken and supervised by the specialist who will advise the patient, their family or carer, and GP of the outcome.

6. Pharmac	eutical aspects Back to top
Route of administration:	Oral
Formulation:	 Methylphenidate hydrochloride. Standard release tablets: Medikinet®: 5mg, 10mg, 20mg Methylphenidate hydrochloride (generic): 5mg, 10mg, 20mg Ritalin®: 10mg Tranquilyn®: 5mg, 10mg, 20mg Brand name prescribing is not necessary for standard release tablets. Prolonged-release tablets: NB: Modified-release tablets preparations vary in their release characteristics and must be prescribed by brand name. The specialist must specify the brand to be prescribe generically but this should be changed back to a preferred brand as soon as possible. The prolonged release tablets listed below are all bioequivalent. Affenid XL®: 18mg, 27mg, 36mg, 54mg Delmosart®: 18mg, 27mg, 36mg, 54mg Xaggitin XL®: 18mg, 27mg, 36mg, 54mg Concerta XL®: 18mg, 27mg, 36mg, 54mg Concerta XL®: 18mg, 27mg, 36mg, 54mg Concerta XL®: 18mg, 27mg, 36mg, 54mg Modified-release capsules: NB: Modified-release d preparations vary in their release characteristics and must be prescribed by brand name. The specialist must specify the brand to be prescribed. Equasym XL®: 10mg, 20mg, 30mg Medikinet XL®: 10mg, 20mg, 30mg, 40mg, 50mg, 60mg Ritalin XL®: 10mg, 20mg, 30mg, 40mg, 60mg NB: Ritalin XL and Medikinet XL modified-release capsules are licensed for initiation and continuation in adults. Equasym XL is not licensed for

	Please consult the relevant <u>SPC</u> for brand-specific licensing information.
Administration details:	Administration requirements vary by formulation and brand. Methylphenidate capsules can be opened and sprinkled on a small amount of soft food for administration. Please consult the relevant <u>SPC for brand-specific information</u> . If a dose is missed, then the next scheduled dose should be taken as usual; <u>a</u> double dose should not be taken to make up for a missed dose.
Other important information:	Methylphenidate is a schedule 2 controlled drug and is subject to <u>prescribing</u> <u>restrictions</u> and has the potential for misuse and diversion. The choice of formulation will be decided by the treating specialist on an individual basis and depends on the intended duration of effect. Risk of misuse can be reduced by using modified-release preparations. Details of the release characteristics of the different formulations are given in a <u>review document</u> by the Specialist Pharmacy Services. Alcohol may exacerbate CNS adverse effects of methylphenidate and should be avoided during use. Methylphenidate may cause false positive laboratory test results for amphetamines.

7. Significant medicine interactions

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The following list is not exhaustive. Please see <u>BNF</u> or <u>SPC</u> for comprehensive information and recommended management.

- Monoamine oxidase inhibitors (MAOIs): risk of hypertensive crisis. The combination should be avoided, and use of methylphenidate and MAOIs should be separated by at least 14 days
- Coumarin anticoagulants, anticonvulsants (e.g. phenobarbital, phenytoin, primidone), selective serotonin reuptake inhibitors (SSRIs) and tricyclic antidepressants: metabolism may be inhibited by methylphenidate. Dose adjustment may be required when starting or stopping methylphenidate.
- Anti-hypertensive drugs: effectiveness may be reduced by methylphenidate
- Other drugs which elevate blood pressure: risk of additive effects (e.g. linezolid)
- Alcohol: may exacerbate adverse CNS effects of methylphenidate
- Serotonergic drugs, including SSRIs and MAOIs: increased risk of central nervous system (CNS) adverse effects, risk of serotonin syndrome
- Halogenated anaesthetics: risk of sudden blood pressure increase during surgery. Avoid methylphenidate on the day of planned surgery.

- **Dopaminergic drugs**, **including antipsychotics**: increased risk of pharmacodynamic interactions including dyskinesias or hypertensive crisis (e.g. risperidone, paliperidone, selegiline, rasagiline)
- Apraclonidine: effects decreased by methylphenidate.
- Carbamazepine: may decrease methylphenidate levels
- Ozanimod: may increase risk of hypertensive crisis

8. Baseline investigations, initial monitoring and ongoing monitoring to be undertaken by specialist

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Monitoring at baseline and during initiation is the responsibility of the specialist; only once the patient is optimised on the chosen medication with no anticipated further changes expected in immediate future will prescribing and monitoring be transferred to primary care.

Pre-treatment:

- A medical history and cardiovascular assessment, taking into account conditions that may be contraindications, risk of pregnancy (where applicable), and to ensure the patient meets the criteria for ADHD and that pharmacological treatment is required
- Risk assessment for substance misuse and drug diversion
- Pulse, BP
- Weight, Height, (use centiles in children), Appetite
- Psychiatric symptoms
- ECG (if history of congenital heart disease or previous cardiac surgery, sudden death in a first-degree relative under 40 years suggesting a cardiac disease, family history of CVD or arrhythmia, shortness of breath on exertion compared with peers, fainting on exertion or in response to fright or noise, palpitations, chest pain suggestive of cardiac origin, signs of heart failure, heart murmur or hypertension, current treatment with a medicine that may increase cardiac risk)

Initial monitoring:

- Assess heart rate and blood pressure after every change of dose
- Weight and height (using centiles)
- Assessment for new or worsening psychiatric symptoms following every change of dose
- Assessment of symptom improvement. Discontinue if no improvement is observed after one month.

Ongoing monitoring (ADHD):

Ensure the patient receives a review at least annually with a healthcare professional with training and expertise in managing ADHD. This may be in primary or secondary care, depending on local arrangements, and should include a review of ADHD medication, including patient preferences, benefits, adverse effects, and ongoing clinical need. Consider trial periods of stopping medication or reducing the dose when assessment of the overall balance of benefits

and harms suggests this may be appropriate. If continuing medication, document the reasons why.

Review outcomes should be communicated to the primary care prescriber in writing, with any urgent changes also communicated by telephone.

9. Ongoing monitoring requirements to be undertaken by primary care

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See <u>section 10</u> for further guidance on management of adverse effects/responding to monitoring results.

Monitoring and actions	Frequency
 Maintenance: Weight Blood pressure and heart rate, and assessment for cardiovascular signs or symptoms Height and weight using centiles and appetite Assessment for new or worsening psychiatric and neurological signs or symptoms Assessment for any indication of abuse, misuse, or diversion In people of child-bearing potential, assess whether there is a risk of pregnancy. Consider pregnancy testing where appropriate 	Every 6 months Specialist Clinician until Primary Care Prescriber has agreed to take on prescribing. At this point the GP is requested to carry out the 6-monthly review and the specialist clinician will carry out the annual review
• Review of ADHD medication, including preferences of the patient, their family or carer, benefits, adverse effects, and ongoing clinical need. Consider trial period off medication	Annually Specialist Clinician, with bloods arranged through primary care
 If dose change when on maintenance: Pulse, BP Weight, Height, (use centiles), Appetite Psychiatric symptoms 	Specialist clinician

secondary care.

10. Adverse effects and other management

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Any serious adverse reactions should be reported to the MHRA via the Yellow Card

scheme. Visit www.mhra.gov.uk/yellowcard

For information on incidence of ADRs see relevant summaries of product characteristics

	Result	Action for primary care
As well as responding to absolute values in laboratory tests, a rapid change or a consistent trend in any value should prompt caution and extra vigilance		
Cardiovascular	Symptoms such as palpitations, exertional chest pain, unexplained syncope, dyspnoea or other signs or symptoms suggestive of cardiac disease	Refer for urgent specialist cardiac evaluation
	Resting tachycardia >120 beats per minute, arrhythmia or systolic blood pressure greater than the 95th percentile (or a clinically significant increase) measured on 2 occasions	Reduce dose by half and refer to specialist for further advice
Weight or BMI	outside healthy range or falling off centiles, anorexia or weight loss	 Exclude other reasons for weight loss. Give advice as per <u>NICE</u> <u>NG87</u>: take medication with or after food, not before additional meals or snacks early in the morning or late in the evening when stimulant effects have worn off obtaining dietary advice consuming high-calorie foods of good nutritional value Discuss with specialist if difficulty persists; dose reduction, treatment break, or change of medication may be required.

Haematological disorders	Including leukopenia, thrombocytopenia, anaemia or other alterations	Contact specialist team. Discontinuation should be considered. Referral to haematology may be warranted; use clinical discretion
Psychiatric disorders	New or worsening psychiatric symptoms, e.g. psychosis, mania, aggressive or hostile behaviour, suicidal ideation or behaviour, motor or verbal tics (including Tourette's syndrome), anxiety, agitation or tension, bipolar disorder, depression	Discuss with specialist. Stop treatment and consider referral to acute mental health team if suicidal thoughts, mania, or psychosis are present Methylphenidate should not be continued unless the benefits outweigh the risks.
Nervous system disorders	Symptoms of cerebral ischaemia, e.g. severe headache, numbness, weakness, paralysis, and impairment of coordination, vision, speech, language or memory	Discontinue methylphenidate, refer urgently for assessment
	New or worsening seizures	Discontinue methylphenidate. Refer to specialist team.
	Symptoms of serotonin syndrome, e.g. agitation, hallucinations, coma, tachycardia, labile blood pressure, hyperthermia, hyperreflexia, incoordination, rigidity, nausea, vomiting, diarrhoea	Discontinue methylphenidate as soon as possible. Management depends on severity; use clinical judgement and seek advice if necessary. Discuss with specialist team to determine whether methylphenidate can be re-started.
	Insomnia or other sleep disturbance	Review timing of methylphenidate dose and advise as appropriate. Give advice on sleep hygiene. Consider using a sleep diary Discuss with specialist if difficulty persists; dose reduction may be required.

Suspicion of abuse, misuse, or diversion

11. Advice to patients and carers

The specialist will counsel the patient with regard to the benefits and risks of treatment and will provide the patient with any relevant information and advice, including patient information leaflets on individual medicines.

The patient should be advised to report any of the following signs or symptoms to their primary care prescriber without delay:

- Abnormally sustained or frequent and painful erections: seek immediate medical attention.
- Signs or symptoms of serotonin syndrome (e.g. agitation, hallucinations, coma, tachycardia, labile blood pressure, hyperthermia, hyperreflexia, incoordination, rigidity, nausea, vomiting, diarrhoea)
- Any mood changes, for example. psychosis, mania, aggressive or hostile behaviour, suicidal ideation or behaviour, motor or verbal tics (including Tourette's syndrome), anxiety, agitation or tension, anxiety, depression
- New or worsening neurological symptoms (e.g. severe headache, numbness, weakness, paralysis, and impairment of coordination, vision, speech, language or memory)
- Abdominal pain, malaise, jaundice or darkening of urine
- Skin rashes, or bruising easily
- If they suspect they may be pregnant or are planning a pregnancy. Patients of childbearing potential should use appropriate contraception and take a pregnancy test if they think there is a possibility they could be pregnant.

The patient should be advised:

- Attend regularly for monitoring and review appointments with primary care and specialist and keep contact details up to date with both prescribers. It may not be safe to continue prescribing without regular review, and patients should be aware that their medicines could be stopped if they do not attend appointments.
- Not to drive, use other modes of transport that require a high level of alertness e.g. bicycle, scooter, operate machines or undertake skilled tasks if methylphenidate affects their ability to do so safely, e.g. by causing dizziness, drowsiness, or visual disturbances
- People who drive must inform the DVLA if their ADHD, narcolepsy or medicines affect their ability to drive safely. See <u>https://www.gov.uk/adhd-and-driving</u> or <u>https://www.gov.uk/narcolepsy-and-driving</u>.

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Discuss with specialist team

- Avoid alcohol while taking methylphenidate, as it may make side effects worse. Avoid recreational drugs.
- Not to stop taking methylphenidate without talking to their doctor. Medical supervision of withdrawal is required, since this may unmask depression or chronic over-activity.
- Methylphenidate is a schedule 2 controlled drug. Patients may be required to prove their identity when collecting prescriptions and should store methylphenidate safely and securely. It must not be shared with anyone else. There are restrictions on travelling with controlled drugs: see <u>https://www.gov.uk/guidance/controlled-drugspersonal-licences</u>.

Patient information:

- NHS attention deficit hyperactivity disorder. <u>https://www.nhs.uk/conditions/attention-deficit-hyperactivity-disorder-adhd/</u>
- Choice and medication
 - <u>https://www.choiceandmedication.org/sabp/condition/attention-deficit-hyperactivity-disorder/</u>
 - o https://www.choiceandmedication.org/sabp/medication/methylphenidate/

12. Pregnancy, paternal exposure and breast feeding

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It is the responsibility of the specialist to provide advice on the need for contraception to male and female patients on initiation and at each review, but the ongoing responsibility for providing this advice rests with both the primary care prescriber and the specialist.

Pregnancy:

Methylphenidate is not recommended for use during pregnancy unless a clinical decision is made that postponing treatment may pose a greater risk to the pregnancy.

Evidence on exposure to methylphenidate during pregnancy is too limited to draw firm conclusions on adverse outcomes. Clinicians should be aware that patients may have other risk

factors which independently alter the risks.

Patients who become pregnant while taking methylphenidate, or who plan a pregnancy, should be referred to the specialist team for review. The specialist will reassume prescribing responsibility, ending the shared care agreement.

Healthcare professional information available from:

https://www.medicinesinpregnancy.org/bumps/monographs/USE-OF-METHYLPHENIDATE-IN-PREGNANCY/

Patient information available from: <u>https://www.medicinesinpregnancy.org/Medicine--</u> pregnancy/Methylphenidate/

Breastfeeding:

Methylphenidate has been found in breast milk in small amounts. Evidence for safety in breastfeeding is limited. Decisions to use while breastfeeding should be made on a case-by-case basis, taking into account the risks to the infant and benefits of therapy. Infants should be monitored for symptoms of CNS stimulation (e.g. decreased appetite/weight gain, sleep disturbances, irritability), although these may be difficult to detect. High doses may interfere with lactation, although this is not confirmed in practice.

Healthcare professional information on the principles of medicines use in breast feeding, and sources of information is available from: <u>Advising on medicines during breastfeeding – SPS -</u> <u>Specialist Pharmacy Service – The first stop for professional medicines advice</u>

Paternal exposure:

No evidence regarding adverse outcomes following paternal exposure was identified.

Further information for patients: <u>bumps - best use of medicine in pregnancy</u> (medicinesinpregnancy.org)

13. Specialist contact information

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Email address: <u>neurodevworkrequests@sabp.nhs.uk</u> (Response within 72 hours) To contact the specialist on the following telephone number if urgent advice needed: 01372 216555

Alternative contacts

Specialist Pharmacy Services Medicines Advice - on 0300 770 8564 or via email at <u>asksps.nhs@sps.direct</u> (Service operates Monday to Friday 9am-5pm)

SABP Pharmacy Service - pharmacy@sabp.nhs.uk, 01483 443717

Out of hours contact details: No SABP service providing this level of care for ADHD. Consider emergency services

Families and carers can contact the specialist service on the following telephone number 01372 216555 (Monday - Friday, 9-12.30pm) or email <u>neurodevworkrequests@sabp.nhs.uk</u> for urgent advice and guidance related to their ADHD treatment.

A free out-of-hours phone line - 0300 222 5755 (5pm -11pm, 365 days a year) provides advice to parents and carers who are struggling with behaviours or difficulties which could be related to neurodevelopmental need, such as autism or ADHD.

In addition, advice for the young person and their family or carer can be accessed through:

https://www.mindworks-surrey.org/our-services/access-and-advice

If a patient requires additional support, which is not related to their ADHD treatment, then referral via a health, education or social care practitioner, would normally be required.

14. Additional information

Where patient care is transferred from one specialist service or GP practice to another, a new shared care agreement must be completed. Ensure that the specialist is informed in writing of any changes to the patient's GP or their contact details.

15. References

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- Methylphenidate hydrochloride 5 mg tablets (Tranquilyn®). Date of revision of the text 21/09/20. Accessed via <u>https://products.mhra.gov.uk/</u>
- Methylphenidate hydrochloride 5 mg tablets (Mylan). Date of revision of the text October 2019. Accessed via <u>https://www.medicines.org.uk/emc/product/8724/smpc</u>
- Methylphenidate hydrochloride 18 mg prolonged-release tablets (Concerta XL®). Date of revision of the text 07/10/20. Accessed via <u>https://www.medicines.org.uk/emc/product/6872/smpc</u>
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- NICE Clinical Knowledge Summaries. Attention deficit hyperactivity disorder: Methylphenidate. Last revised January 2021. Accessed via <u>https://cks.nice.org.uk/topics/attention-deficit-hyperactivity-disorder/prescribing-</u> information/methylphenidate/ on 04/05/2021
- Specialist Pharmacy Service. Medicines Q&A: Which medicines should be considered for brand-name prescribing in primary care? <u>Prescribing by generic or brand name in primary</u> <u>care – SPS - Specialist Pharmacy Service – The first stop for professional medicines advice</u> on 05/05/2021
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- Evidence-based guidelines for the pharmacological management of attention deficit hyperactivity disorder: Update on recommendations from the British Association for Psychopharmacology. Bolea-Alamañac B, Nutt DJ, Adamou M, et al. Journal of Psychopharmacology. 2014. 1–25. DOI: <u>10.1177/0269881113519509</u>
- UKTIS. Use of methylphenidate in pregnancy. Last updated January 2018. Accessed via https://www.toxbase.org/poisons-index-a-z/m-products/methylphenidate-in-pregnancy/ on 14/04/2021 [Now available via https://uktis.org/monographs/use-of-methylphenidate-in-pregnancy/ on 14/04/2021 [Now available via https://uktis.org/monographs/use-of-methylphenidate-in-pregnancy/ on 14/04/2021 [Now available via https://uktis.org/monographs/use-of-methylphenidate-in-pregnancy/ 13.1.2025]
- Specialist Pharmacy Service. Safety in Lactation: Drugs for ADHD. Last updated October 2020. Accessed via <u>https://www.sps.nhs.uk/articles/safety-in-lactation-drugs-for-adhd/</u> on 05/05/2021 [Not currently available]

Specialist Pharmacy Service. Methylphenidate Lactation Safety Information. Last updated September 2018. Accessed via <u>https://www.sps.nhs.uk/medicines/methylphenidate/</u> on 05/05/2021 [Not currently available]

16. Other relevant national guidance

- Shared Care for Medicines Guidance A Standard Approach (RMOC). Available from https://www.sps.nhs.uk/articles/rmoc-shared-care-guidance/ [Not currently available]
- NHSE guidance Responsibility for prescribing between primary & secondary/tertiary care. Available from <u>https://www.england.nhs.uk/publication/responsibility-for-prescribing-between-primary-and-secondary-tertiary-care/</u>
- General Medical Council. Good practice in prescribing and managing medicines and devices. Shared care. Available from https://www.gmc-uk.org/ethical-guidance/ethical-guidance/ethical-guidance-for-doctors/good-practice-in-prescribing-and-managing-medicines-anddevices/shared-care NICE NG197: Shared decision making. Last updated June 2021.

https://www.nice.org.uk/guidance/ng197/

17. Local arrangements for referral

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Define the referral procedure from hospital to primary care prescriber & route of return should the patient's condition change.

See section 13 for details of advice relating to management of ADHD for an individual continuing with shared care

Where a second mental health or neurodevelopmental condition has emerged:

- 1. and the primary need remains related to their ADHD, and the person may need to be transferred to cohort 3 with the cessation of shared care access SABP care via email <u>neurodevworkrequests@sabp.nhs.uk</u>
- and the primary need is NOT related to their ADHD (i.e., concerns regarding emotional wellbeing or other mental health needs), please refer as usual to Access and Advice (AAT) which is available from 8am to 8pm, Monday to Friday and 9am to 12pm, Saturday. Tel.: 0300 222 5755

APC board date: Last updated:

Appendix 1: Shared Care Request letter (Specialist to Primary Care Prescriber)

Dear [insert Primary Care Prescriber's name]

Patient name:	[insert patient's name]
Date of birth:	[insert date of birth]
NHS Number:	[insert NHS Number]
Diagnosis:	[insert diagnosis]

As per the agreed *[insert APC name]* shared care protocol for *[insert medicine name]* for the treatment of *[insert indication]*, this patient is now suitable for prescribing to move to primary care.

The patient fulfils criteria for shared care, and I am therefore requesting your agreement to participate in shared care. Where baseline investigations are set out in the shared care protocol, I have carried these out.

I can confirm that the following has happened regarding this treatment:

	Specialist to complete
The patient has been initiated on this therapy and has been on an optimised dose for the following period of time:	
Baseline investigation and monitoring as set out in the shared care documents have been completed and were satisfactory	Yes / No
The condition being treated has a predictable course of progression and the patient can be suitably maintained by primary care	Yes / No
The risks and benefits of treatment have been explained to the patient	Yes / No
The roles of the specialist/specialist team/ Primary Care Prescriber / Patient and pharmacist have been explained and agreed	Yes / No
The patient has agreed to this shared care arrangement, understands the need for ongoing monitoring, and has agreed to attend all necessary appointments	Yes / No
I have enclosed a copy of the shared care protocol which covers this treatment/the SCP can be found here (insert electronic/ web link)	Yes / No
I have included with the letter copies of the information the patient has received	Yes / No
I have provided the patient with sufficient medication to last until	
I have arranged a follow up with this patient in the following timescale	

Treatment was started on [insert date started] and the current dose is [insert dose and frequency].

If you are in agreement, please undertake monitoring and treatment from *[insert date]* NB: date must be at least 1 month from initiation of treatment.

The next blood monitoring is due on *[insert date]* and should be continued in line with the shared care guideline.

Please respond to this request for shared care, in writing, within 14 days of the request being made where possible.

Appendix 2: Shared Care Agreement Letter (Primary Care Prescriber to Specialist)

Primary Care Prescriber Response

Dear	[insert Doctor's name]
Patient	[insert Patient's name]
NHS Number	[insert NHS Number]
Identifier	[insert patient's date of birth and/oraddress]

Thank you for your request for me to accept prescribing responsibility for this patient under a shared care agreement and to provide the following treatment

Medicine	Route	Dose & frequency

I can confirm that I am willing to take on this responsibility from *[insert date]* and will complete the monitoring as set out in the shared care protocol for this medicine/condition.

Drimon (Core Drocoribor cignoture)	Deter
Primary Care Prescriber signature:	 Date:

Primary Care Prescriber address/practice stamp

Appendix 3: Shared Care Refusal Letter (Primary Care Prescriber to Specialist)

Re:

Patient	[insert Patient's name]
NHS Number	[insert NHS Number]
Identifier	[insert patient's date of birth and/oraddress]

Thank you for your request for me to accept prescribing responsibility for this patient.

In the interest of patient safety NHS *[insert CCG name]*, in conjunction with local acute trusts have classified *[insert medicine name]*as a Shared Care drug and requires a number of conditions to be met before transfer can be made to primary care.

I regret to inform you that in this instance I am unable to take on responsibility due to the following:

		Tick which applies
1.	The prescriber does not feel clinically confident in managing this individual patient's condition, and there is a sound clinical basis for refusing to accept shared care	
	As the patient's primary care prescriber, I do not feel clinically confident to manage this patient's condition because <i>[insert reason]</i> . I have consulted with other primary care prescribers in my practice who support my decision. This is not an issue which would be resolved through adequate and appropriate training of prescribers within my practice.	
	I have discussed my decision with the patient and request that prescribing for this individual remain with you as the specialist, due to the sound clinical basis given above.	
2.	The medicine or condition does not fall within the criteria defining suitability for inclusion in a shared care arrangement	
	As the medicine requested to be prescribed is not included on the national list of shared care drugs as identified by RMOC or is not a locally agreed shared care medicine I am unable to accept clinical responsibility for prescribing this medication at this time.	
	Until this medicine is identified either nationally or locally as requiring shared care the responsibility for providing this patient with their medication remains with you	

3.	A minimum duration of supply by the initiating clinician	
	As the patient has not had the minimum supply of medication to be provided by the	
	initiating specialist, I am unable to take clinical responsibility for prescribing this medication	
	at this time. Therefore, can you please contact the patient as soon as possible in order to provide them with the medication that you have recommended.	
	Until the patient has had the appropriate length of supply the responsibility for	
	providing the patient with their medication remains with you.	
4.	Initiation and optimisation by the initiating specialist	
	As the patient has not been optimised on this medication, I am unable to take clinical	
	responsibility for prescribing this medication at this time. Therefore, can you please contact	
	the patient as soon as possible in order to provide them with the medication that you have recommended.	
	Until the patient is optimised on this medication the responsibility for providing the	
	patient with their medication remains with you.	
5.	Shared Care Protocol not received	
	As legal responsibility for clinical care lies with the clinician who signs the prescription, I	
	need to ensure that I am in possession of sufficient clinical information for me to be confident to prescribe this treatment for my patient and it is clear where each of our	
	responsibilities lie to ensure the patient is safely managed.	
	For this reason, I am unable to take clinical responsibility for prescribing this medication at	
	this time, therefore would you please contact the patient as soon as possible in order to	
	provide them with the medication that you have recommended.	
	Until I receive the appropriate SCP, responsibility for providing the patient with their medication remains with you.	
	medication remains with you.	
6.	Other (Primary Care Prescriber to complete if there are other reasons why shared	
	care cannot be accepted)	

I would be willing to consider prescribing for this patient once the above criteria have been met for this treatment.

NHS England 'Responsibility for prescribing between Primary & Secondary/Tertiary care' guidance (2018) states that "when decisions are made to transfer clinical and prescribing responsibility for a patient between care settings, it is of the utmost importance that the GP feels clinically competent to prescribe the necessary medicines. It is therefore essential that a transfer involving medicines with which GPs would not normally be familiar should not take place without full local agreement, and the dissemination of sufficient, up-to-date information

to individual GPs." In this case we would also see the term GP being interchangeable with the term Primary Care Prescriber.

Please do not hesitate to contact me if you wish to discuss any aspect of my letter in more detail and I hope to receive more information regarding this shared care agreement as soon as possible

Yours sincerely

Primary Care Prescriber signature: _____ Date:

Primary Care Prescriber address/practice stamp

Appendix 4

NHS Surrey Heartlands has worked with its Mental Health provider (Surrey and Borders Partnership NHS Foundation Trust [SABP]) to define cohorts of children who have been diagnosed with ADHD to support effective management across the primary care / specialist service interface.

These cohorts have been defined as follows:

Cohort 1	 Children and young people who are stable: Fully stabilised dose (i.e., titrated dose of medication which has not been changed in the recent six-month period) uncomplicated by co-morbidities (i.e., currently not receiving specialist treatment for other mental health or neurodevelopmental conditions) suitable for ongoing treatment and six-monthly reviews in primary care
Cohort 2	Children and young people who have ADHD and are currently receiving specialist treatment for other mental health or neurological comorbidities. However, are easily stabilised with small changes but are perhaps seen more frequently by specialist services. These CYPs may be suitable for shared care.
Cohort 3	Children who have co-morbidities and/or have complex needs due to risk (mental health / safeguarding / physical health), may be on other forms of medication and doses of medications are frequently changed hence need regular review by the specialist service. These CYPs are not suitable for shared care and prescribing responsibility should stay within the specialist service.