DERBYSHIRE JOINT AREA PRESCRIBING COMMITTEE  
SHARED CARE AGREEMENT

Riluzole for the treatment of the Amyotrophic Lateral Sclerosis (ALS) form of Motor Neurone Disease (MND)

1. REFERRAL CRITERIA
   - Shared Care is only appropriate if it provides the optimum solution for the patient.
   - Prescribing responsibility will only be transferred when it is agreed by the consultant and the patient’s GP that the patient’s condition is stable or predictable.
   - Patients will only be referred to the GP once the GP has agreed in each individual case.
   - The patient will be given a supply of riluzole 50mg tablets sufficient for 12 weeks maintenance therapy.

2. AREAS OF RESPONSIBILITY

<table>
<thead>
<tr>
<th>GP responsibilities</th>
<th>Consultant responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. If NOT participating in shared care - reply to the request from the consultant/specialist as soon as practicable (see appendix 1)</td>
<td>1. Diagnosis of ALS after appropriate investigations</td>
</tr>
<tr>
<td>2. Prescribing riluzole after the first 3 months of therapy</td>
<td>2. Baseline U&amp;E, LFT, FBC</td>
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<tr>
<td>3. Monitoring the patient with regard to side-effects, FBC &amp; LFT three monthly for 9 months then annually thereafter as per monitoring guidelines once GP has taken over prescribing of riluzole</td>
<td>3. To review suitability of patient for treatment and discuss benefits and side effects of treatment with patient.</td>
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<tr>
<td>4. ALT should be measured more frequently in patients who develop elevated ALT levels and treatment discontinued if levels increase to five times the ULN</td>
<td>4. Advise patients to seek medical advice if they develop infective symptoms such as dry cough and/or dyspnoea</td>
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<tr>
<td>5. White blood cell counts should be checked and riluzole discontinued if WBC &lt;3.5 or neutrophils &lt; 2.0.</td>
<td>5. Initiation of riluzole and prescribing for the first 3 months of therapy</td>
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<tr>
<td>6. Referral back to the specialist physician if side-effects become troublesome, or in the presence of raised LFTs</td>
<td>6. Monitoring side-effects, FBC and LFT in the first 3 months of treatment</td>
</tr>
<tr>
<td>7. Refer back to specialist if patients develop respiratory symptoms such as dry cough and/or dyspnoea</td>
<td>7. If patients develop respiratory symptoms such as dry cough and/or dyspnoea, chest radiography should be performed</td>
</tr>
<tr>
<td>8. Report any adverse effects to the referring specialist and the MHRA yellow card scheme</td>
<td>8. Assessment of the continuing need for treatment</td>
</tr>
<tr>
<td>9. Stop treatment on advice of a specialist</td>
<td>9. Send copy of the shared care agreement to GP and ask whether they are willing to participate in shared care, handover treatment to GP at 3 months if agreement reached</td>
</tr>
<tr>
<td>Patient responsibilities</td>
<td>10. Communicate promptly with GP any changes in treatment or if any dosage adjustments required</td>
</tr>
<tr>
<td>1. Report any adverse effects to the specialist or GP whilst taking riluzole</td>
<td>11. Report any adverse effects to the MHRA yellow card scheme and GP</td>
</tr>
<tr>
<td>2. A febrile illness should be reported on the same day that it starts</td>
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<tr>
<td>3. Report to the specialist or GP if they do not have a clear understanding of their treatment</td>
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<tr>
<td>4. Ensure regular attendance for review and blood monitoring tests</td>
<td></td>
</tr>
<tr>
<td>5. Patients should be warned to report respiratory symptoms to their physician</td>
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</tr>
</tbody>
</table>

3. COMMUNICATION AND SUPPORT

i. Hospital contacts:
   Derby Hospitals NHS Foundation Trust
   Dr M Phillips 01332 785599
   Dr Michael Knopp, Consultant Neurologist: 01332 783548
   Sarah Cole, MND Nurse Specialist: 01332 788865

ii. Out of hours contacts and procedures:
   Derby Hospitals NHS Foundation Trust
   On-call Pharmacist via switchboard
   01332 340131

iii. Specialist support/resources available to GP including patient information
   The manufacturers patient information leaflet will be provided with all riluzole dispensed. For newly diagnosed patients, a booklet from the Motor Neurone Disease Association on practical management of the disease will be provided to each patient. The MNDA website has further supportive information for GPs.
4. CLINICAL INFORMATION

i. Prescribed indications
Riluzole is licensed to extend life for individuals with the amyotrophic lateral sclerosis (ALS) form of motor neurone disease (MND)

ii. Therapeutic summary
Motor neurone disease is the term used to describe progressive muscular atrophy (PMA) and amyotrophic lateral sclerosis (ALS) which includes Progressive Bulbar Palsy. ALS, which is characterised by both upper and lower motor neurone signs, is the most common form of MND, accounting for 65% to 85% of all cases. Adult-onset MND is characterised by progressive degeneration of the motor neurones of the brain, brain stem or spinal cord, starting insidiously with symptoms and signs including stumbling, foot drop, weakened grip, slurred speech, cramp, muscle wasting, twitching and tiredness. Other symptoms of MND include muscle stiffness, paralysis, incoordination and impaired speech, swallowing and breathing. Most individuals die from ventilatory failure, resulting from progressive weakness and wasting of limb, respiratory and bulbar muscles within approximately 3 years of the onset of symptoms.

iii. Dose & Route of administration
50mg every 12 hours; Use tablets 1st line
Administration - swallowing difficulties:
The tablets can be crushed and mixed with soft food e.g. yoghurt or puree to aid swallowing. Tablets crushed on food should be eaten within 15 minutes as there is no stability data available for this method of administration. Use crushed tablets with care as they may have a local anaesthetic effect in the mouth.

Administration – enteral tubes:
The tablets can be crushed and dispersed in water for enteral tube administration. Give immediately. Riluzole may block enteral feeding tubes, so ensure that the tube is flushed well after each dose.
A licensed oral suspension is available however this is significantly more expensive. The MND specialists may recommend suspension in exceptional circumstances in patients with severe dysphagia causing coughing and aspiration, or in patients using enteral feeding where there is a risk of crushed riluzole tablets blocking feeding tubes.

iv. Duration of treatment
Indefinite

v. Adverse effects
Nausea, vomiting, weakness, tachycardia, somnolence, headache, dizziness, vertigo, pain, paraesthesia, neutropaenia and alterations in liver function tests. Transient increases in ALT can occur in the first 3 months of treatment, with levels returning to below twice the upper limit of normal after 2 to 6 months while treatment continues.

vi. Monitoring Requirements
LFT and FBC before and during therapy, every month for 3 months, then every 3 months for a further 9 months, and annually thereafter. ALT levels should be measured more frequently in patients who develop elevated ALT levels. Riluzole should be discontinued if ALT levels increase to five times the ULN. There is limited experience with dose reduction or re-challenge in these patients. Patients should be warned to report any febrile illness to their physicians. White blood cell counts should be checked and riluzole discontinued if WBC <3.5 or neutrophils < 2.0. Patients should be warned to report respiratory symptoms to their physician.
Chest radiography should be performed and in case of findings suggestive of interstitial lung disease, riluzole should be discontinued immediately.

vii. Clinically relevant drug interactions
No clinical data available but since riluzole is extensively metabolised by the enzyme cytochrome P450 1A2, inhibitors (e.g. theophylline, quinolones) and inducers (e.g. rifampicin, omeprazole) of this enzyme could potentially affect the rate of elimination. Consult product literature for more details.

viii. Contraindication
Hepatic disease or baseline transaminases greater than 3 times the Upper Limit of Normal (ULN).
Renal impairment, pregnancy, breast feeding

ix. Supply, storage and reconstitution instructions
Not applicable

x. Prepared by
Dr M Phillips, Consultant in Rehabilitation Medicine, Derby Hospitals NHS Foundation Trust
The Derbyshire Medicines Management Shared Care & Guideline Group
Dr M Phillips, Consultant and Assistant Clinical Director in Rehabilitation Medicine, Derby Teaching Hospitals NHS Foundation Trust
Pharmacy Department, Derby Teaching Hospitals NHS Foundation Trust
Dr M Knopp, Consultant Neurologist, University Hospitals of Derby & Burton NHS Foundation Trust

This does not replace the SPC, which should be read in conjunction with it.
First prepared: May 2010  Updated: October 2017  Review date: September 2019
Page 2 of 4
Hospital No: «HOSPITAL_NUMBER»
NHS No: «NHS_NUMBER»

(Insert date)

PRIVATE & CONFIDENTIAL
«GP_TITLE» «GP_INITIALS» «GP_SURNAME»
«GP_ADDRESS_1»
«GP_ADDRESS_2»
«GP_ADDRESS_3»
«GP_ADDRESS_4»
«GP_POSTCODE»

DERBYSHIRE JAPC SHARED CARE AGREEMENT LETTER

Dear «GP_TITLE» «GP_SURNAME»

«FORENAME_1» «SURNAME» «DATE_OF_BIRTH»
«CURRENT_ADDRESS_1» «CURRENT_ADDRESS_2» «CURRENT_ADDRESS_3» «CURRENT_ADDRESS_4»
«CURRENT_POSTCODE»

Your patient was seen on {Insert date} with a diagnosis of {Insert diagnosis}. I have initiated the following medication {Insert drug name} and am writing to ask you to participate in the shared care for this patient.

This medication has been accepted as suitable for shared care by the Derbyshire Joint Area Prescribing Committee (JAPC). I agree to the secondary care responsibilities set out in the shared care agreement for this medication (available from www.derbyshiremedicinesmanagement.nhs.uk/clinical_guidelines/shared_care_guidelines). I am therefore requesting your agreement to share the care of this patient. Where preliminary tests are set out in the agreement I have carried these out and results are below.

<table>
<thead>
<tr>
<th>Dose Regimen</th>
<th>Date {Insert medicine name} started</th>
<th>Date for GP to start prescribing {Insert medicine name} from</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

The baseline test results are (if applicable):

I confirm I have explained to the patient: the risks and benefits of treatment, the baseline tests conducted the need for monitoring, how monitoring will be arranged, and the roles of the consultant / nurse specialist, GP and the patient in shared care. I confirm the patient has understood and is satisfied with this shared care arrangement at this time.

If you do NOT wish to participate in shared care for this patient, usually under clinical grounds, please complete the attached form.

Yours sincerely

{Consultant name}
GP RESPONSE TO SHARED CARE (only complete & send if NOT participating in shared care)

Shared care is produced by GPs and specialists knowledgeable in the field of that drug usage. The shared care has been approved by the JAPC. This allows a more convenient service to the patient and cost effective use of NHS resources.

<table>
<thead>
<tr>
<th>Patient:</th>
<th>NHS No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consultant:</td>
<td>Medicine requested for shared care:</td>
</tr>
</tbody>
</table>

I will NOT be undertaking the GP responsibilities as described in the agreed shared care guideline. My clinical reasons for declining shared care for this patient are listed in the box below:

Yours sincerely

{GP name}
{Surgery}

Please send a copy of this response to:
1. The specialist/consultant requesting shared care
2. AN ANONYMISED COPY OF THIS FORM ONLY to the Medicines Management Clinical Effectiveness Team, 1st Floor East Point, Cardinal Square, 10 Nottingham Road, Derby, DE1 3QT or E-MAIL: sderccg.derbyshiredelincinesmanagement@nhs.net

(Sending a copy of this form to the Clinical Effectiveness Team will help to identify any inappropriate requests for shared care e.g. indication not covered, hospital monitoring requirements not fulfilled. It will also help to inform the CCG prescribing group of the reasons shared care is not being undertaken allowing for changes to be made in future updates to improve patient care).