Shared Care Guideline: Ciclosporin

County Durham and Darlington



County Durham and Darlington Area Prescribing Committee

Overview	Ciclosporin is an immunosuppressant drug
Indication	Licensed • Rheumatoid arthritis • Ulcerative colitis Unlicensed • Psoriatic arthritis • Psoriasis • Eczema • Urticaria • Vasculitis • Lichen planus
Dose:	Usual starting dose: 2.5mg/kg/day in TWO divided doses for SIX weeks
	May then be increased at 2 to 4 week intervals by 25mg until clinically effective or maximum dose of 4mg/kg/day is reached.
	This starting dose can be up to 5mg/kg/day when used for acute severe ulcerative colitis when switching from IV. This dose is continued for THREE to SIX months
	Dose reduction is not required in Chronic Kidney Disease, however some protocols do suggest dose reductions if creatinine rises over 130micromol/L
	Maintenance dose: Often effective between 2.5-3.2mg/kg/day.
	Note doses may be higher if for ulcerative colitis (as described above) this will be clearly communicated to GP and doses will be divided.
	Adjust to patient's tolerance and evaluate response and toxicity before increasing the dose.
Specialist's Responsibilities	 Initial investigations: Serum Lipids, Full Blood Count (FBC), calculated creatinine clearance (CrCl) / estimated Glomerular Filtration Rate (eGFR), Liver Function Tests (LFTs), albumin, Erythrocyte Sedimentation Rate (ESR) /C-Reactive Protein(CRP), blood glucose) weight, height and Blood Pressure (BP) BP to be less than 140/90 on 2 consecutive occasions (2 weeks apart) prior to
	commencing treatment. Hypertension should be treated and controlled prior to initiation of ciclosporin.
	 Patients with psoriatic arthritis - assess if patient has received PUVA before commencing ciclosporin. If the total dose exceeds 1000J, discuss with dermatologist.
	• Check Varicella Zoster status if there is an uncertain history and recent exposure to the virus. It is the responsibility of the specialist to arrange vaccination should the patient be found to not have immunity.
	Check trough ciclosporin level as required

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	Initial prescribing until stable: Prescribing responsibility and monitoring to stay with the specialist until patient has been on a stable dose for at least 6 weeks at which point shared care is requested.
	Specialist to issue a prescription for enough medication to last until shared care is accepted by GP. This will usually be a minimum of 28 days
	 Communication and Documentation to GP: Must ensure that information relating to the brand of ciclosporin to prescribe is communicated to the GP Obtaining agreement of GP to participate in shared-care arrangement ciclosporin therapy. This will be by sending a completed copy of the shared care request letter (appendix 1) to the GP The specialist must ensure that the GP is aware when the next blood monitoring is required. Prompt communication with the GP regarding the patient's progress, any reassessment and changes in treatment. Provide additional information and advice to the GP on actions he/she may need to take e.g. on dosage adjustment, other changes in therapy and management of adverse effects, as required.
GP's Responsibilities	 Maintenance prescription: Prescribe ciclosporin in accordance with the specialist's recommendations as outlined in the shared care request letter GP should ensure that ciclosporin is prescribed by brand to ensure patient receives the brand they are stabilised on. If there is a problem obtaining a specific brand then an informed decision by the GP should be made when prescribing a different brand of ciclosporin
	Clinical monitoring: Continue to clinically monitor patient in line with this shared care agreement and referral letter from specialist (as described in clinical monitoring section below)
	 Criteria Requiring Specialist contact: Failure to attend for review or undertake blood tests Intolerance of drugs Communications failure Patient pregnant, wishing to become pregnant or breastfeeding
	 Documentation to specialist: Accepting or rejecting request for shared care within 28 days, if rejecting please state concerns and reasons Blood results to specialist via use of patient-held record.
Clinical monitoring:	FBC, calculated CrCl/eGFR, LFTs, ESR/CRP, blood glucose and BP Frequency: Fortnightly until on stable dose for SIX weeks then monthly for at least ONE year Patients who have been stable for ONE year can be considered for reduced monitoring to 3 monthly on the advice of specialist Serum fasting lipids
	 Frequency: 6 monthly. NOTE – this guideline sets out the standard monitoring requirements, however it is essential that each patient is considered on an individual basis and monitoring frequency should reflect this. The GP should be made aware of any deviations.

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Safety Monitoring: Adverse Events	 adverse effects, contraindication Monitoring for response period. 	at each visit
	Adverse event	Action to be taken
	Creatinine rises by 30% of baseline.	Repeat in one week, if still more than 30% above baseline withhold and discuss with specialist team
	Platelets less than 120 x 10 ⁹ /L	Withhold and discuss with specialist team
	More than a TWO fold rise in Alanine Transaminase(ALT) / Aspartate aminotransferase (AST) from upper limit of normal	Withhold and discuss with specialist team
	BP over 140/90 on two consecutive readings TWO weeks apart	Treat BP in line with NICE guidance (note interactions with several antihypertensives). If BP cannot be controlled despite adequate trails with anti- hypertensives, STOP ciclosporin and discuss with specialist team
	Rise in serum lipids	Withhold and discuss with specialist team or lipid specialist Also see NICE guidelines for lipid therapy
	Potassium rises to above normal range.	Withhold and discuss with specialist team
	Abnormal bruising or sore throat	Withhold, check FBC and discuss with specialist team
	rise or consistent upward tren be required even if values are specialist team. Many side effects associated wir reduction. Some adverse effects • Hirsutism • Bone marrow suppressi cough, unexplained brui myalgia, dizziness and in	consistent downward trend for blood counts or rapid ad for liver enzymes should prompt caution. Action may within normal range. If in doubt please contact th ciclosporin are dose related and respond to dose s include the following (note list is not exhaustive), on characterised by sore throat, infection, fever, malaise, ising or bleeding, fatigue, hypotension/ hypertension, rash Nausea, vomiting and diarrhoea
	 Tremor Headache (including mi Fatigue 	-
	Muscle crampsGingival hyperplasiaRenal impairment	
	HyperlipidaemiaAllergic rashesAnaemia	

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	Gynecomastia
	Oedema
	Abnormal hepatic function
	Pancreatitis
	All suspected serious reactions should be reported to the specialist and the MHRA
Contra-	Known hypersensitivity to ciclosporin.
indications	Concomitant treatment with rosuvastatin.
	Concomitant treatment with tacrolimus. Treatment of required arthritic in patients less than 18 years of again.
	 Treatment of rheumatoid arthritis in patients less than 18 years of age. Uncontrolled hypertension.
	 Uncontrolled infections.
	Breastfeeding.
	Pregnancy
Cautions	Renal or liver impairment
	Serum cholesterol less than 3.0mmol/L (increased risk of seizures)
	Serum magnesium less than 0.50mmol/L (increased risk of seizures
Drug	Deven that are non-best win should be used with extreme anytics in a time to an
Interactions	 Drugs that are nephrotoxic should be used with extreme caution in patients on ciclosporin e.g. NSAIDs, gentamicin, ciprofloxacin, trimethoprim, vancomycin,
	cimetidine and methotrexate.
	Drugs that increase potassium levels should be used with caution as ciclosporin can
	cause hyperkalaemia e.g. ACE Inhibitors, Angiotensin II receptor antagonists and
	potassium sparing diuretics.
	 Many drugs can increase or decrease ciclosporin levels. Refer to the BNF or product data sheet for a full list of these agents.
	 Grapefruit, including grapefruit juice, must be avoided for 1 hour before or after
	taking ciclosporin as bioavailability is increased.
Other	Vaccinations:
Information	"Live" vaccines (including Oral Polio, Oral Typhoid, measles, mumps and rubella
	(MMR), bacillus Calmette-Guérin (BCG) and yellow fever) are not recommended
	whist on treatment
	 Seasonal influenza vaccination is recommended annually Pneumococcal vaccination is recommended in line with current guidance
	• Theumococcal vaccination is recommended in the with current guidance
	Contraception, Fertility, Pregnancy and Breast Feeding:
	Some manufacturers of ciclosporin advise that ciclosporin should not be used in
	pregnancy unless the benefit to the mother outweighs the risk to the foetus
	 The British Society for Rheumatology (BSR) support the use of Ciclosporin throughout pregnancy at the lowest effective dose. However, these patients
	are not suitable for shared care and should be managed by their specialist
	• The British Association of Dermatologists (BAD) state that it is preferable to
	avoid ciclosporin during pregnancy but do advocate use in some
	circumstances. These patients would not be suitable for shared care and
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	BSR and BAD websites https://www.guidelines.co.uk/BSR/RA-in-pregnancy-and-breastfeeding/252703.article http://www.bad.org.uk General • The patient should be advised to report any signs of bone marrow suppression or hypersensitivity (i.e. infection, fever, chills, cough, unexplained bruising or bleeding, fatigue, hypotension, myalgia, dizziness).
	 If patient is taking other immunosuppressive therapy, including steroids they are at an increased risk of secondary infections Avoid excessive exposure to UV light.
Contact Details	Thank you for sharing the care of this patient. If you have any concerns or queries, please contact the Consultant, secretary or call the appropriate helpline below. UHND Rheumatology Helpline: 0191 3332763 DMH Rheumatology Helpline: 01325 743881 UHND Gastroenterology Helpline: 0191 3332333 DMH Gastroenterology Helpline: 01325 743434 Note : there is no dedicated Dermatology Helpline

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County Durham and Darlington MHS

NHS Foundation Trust

Department of County Durham and Darlington Foundation Trust

GP name GP address

Dear Dr

Request for Shared Care of CICLOSPORIN

Re: Patient's name Address

DOB: Hospital Number:

Date:

This patient has been prescribed Ciclosporin via the ORAL route for the management of

□ Rheumatoid arthritis

Psoriatic arthritis (unlicensed) Lichen Planus (unlicensed)

□ Psoriasis (unlicensed) □ Ulcerative colitis □ Eczema (unlicensed)

Urticaria (unlicensed) Urticaria (unlicensed)

This medication is brand specific so should be prescribed the following

brand.....

The patients' current dose isper day

The patient was commenced on this drug onand has been stable on the current dose since.....

I would now like to ask you to take over the responsibility for prescribing this medication for this patient, as agreed by your CCGs and the Area Prescribing Committee.

The shared care document lists the monitoring requirements for this medication. Can I ask that any problems are reported back into secondary care.

The next blood monitoring is due on and should be continued in line with the shared care guideline.

In addition, the following patient specific monitoring is required for this patient

.....

This is part of the shared care guideline approved by the Area Prescribing Committee, available at http://medicines.necsu.nhs.uk/guidelines/durham-darlington/.

The patient will remain under regular clinical review by his or her usual consultant/ specialist nurse as described in the shared care agreement.

Please send back the second part of this letter, with 28 days, so we know that we have your agreement to this arrangement. If you are not happy to accept this patient or have any concerns, then please contact my secretary as soon as practically possible

Yours sincerely

Consultant name

Contact details

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GP Agreement

Patient's Name: DOB: Hospital No:

I agree to take over the prescribing and monitoring of Ciclosporin in line with the approved shared care document as found at http://medicines.necsu.nhs.uk/guidelines/durham-darlington/

Dose to be prescribed

Dated/

Signed:

GP's Name:

GP contact details

Please return to Consultant's secretary. You may wish to keep a copy for your records.

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