Prescribing Protocol SESLHPR/599 Empaglifozin for Type 2 Diabetes



Prescribing Protocol Template for New Drugs		
Title	Empagliflozin for Type 2 Diabetes	
Areas where Protocol/Guideline applicable e.g. District, Hospital, ITU, Ward	SESLHD	
Areas where Protocol/Guideline not applicable	Nil	
Authorised Prescribers	All authorised prescribers	
Indication for use	Approved for use in line with PBS criteria: Type 2 diabetes mellitus in combination with metformin and/or a sulphonylurea or in combination with insulin. • Patient must have, or have had, a HbA1c measurement greater than 7% despite treatment with either metformin or a sulfonylurea; OR • Patient must have, or have had, where HbA1c measurement is clinically inappropriate, blood glucose levels greater than 10 mmol/L in more than 20% of tests over a 2 week period despite treatment with either metformin or a sulfonylurea. For full details see https://www.pbs.gov.au/medicine/item/10202Y	
Clinical condition	Type 2 diabetes with eGFR greater than 30 mL/min	
Contra-indications	Empagliflozin has been associated with euglycaemic diabetic ketoacidosis which can be life-threatening. It must not to be used in patients with: - Type 1 diabetes - fasting patients - eGFR less than 30 mL/min - pregnancy - within 48 hours of surgery or colonoscopy.	

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Type 2 Diabetes	GOVERNMENT I LOCAL MEDILLI DISLITCU
Precautions	Pancreatic insufficiency, lactation, acute illness, dehydration, alcohol abuse, recurrent urinary tract infection, conditions causing fluid loss, hypotension sensitive conditions, loop diuretics.
	Empagliflozin has been associated with euglycaemic diabetic ketoacidosis in the peri and post-operative period. Empagliflozin must be stopped 2 days prior to surgery and for the day of surgery. It must not to be restarted until the patient is tolerating a normal diet. In the interim the patient may require an increase in other anti-hyperglycaemic agents, including insulin.
	Treatment with SGLT2 inhibitors increases the risk for urinary tract infections. Discontinuation of Empagliflozin may be considered in cases of recurrent urinary tract infections.
Place in Therapy	Second line treatment of type 2 diabetes after metformin, may be used in combination with sulfonylureas, metformin and/or insulin
Dosage	Initially 10 mg daily, may be increased to 25 mg daily.
Duration of therapy	Ongoing as tolerated
Important Drug Interactions	Insulin, sulfonylureas: empagliflozin may cause hypoglycaemia when used with these medications. Monitor blood glucose levels QID on starting.
	Diuretics: empagliflozin can lower blood pressure and increase urinary output. On initiation, monitor blood pressure QID and monitor fluid status daily.
Administration instructions	May be taken with or without food
Monitoring requirements	BGLs, UEC Test for blood ketones if patient is fasting, has nausea or vomiting, or is hypotensive.
	Test for blood ketones if a patient has been taking empagliflozin prior to surgery or a medical procedure. If blood ketones are >0.6 mmol/l notify the treating Medical Officer. If ketones are >= 1.5 mmol/L perform urgent venous blood gas to measure pH and notify the Medical Officer urgently.
Management of complications	Endocrine team review

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Basis of Protocol/Guideline (including sources of evidence, references)	Jardiance® Pharmaceutial Benefits Scheme.
	MIMsOnline. Jardiance® (Empaglifozin) Product Information.
	Euglycaemic Diabeteic Ketoacidosis: a predictable, detectable and preventable safety concern with SGLT2 inhibitors. Rosenstock J, Ferrannini E. Diabetes Care 2015.
	Australian Diabetes Society Alert: Severe Euglycaemic Ketoacidosis with SGLT2 Inhibitor Use in the Perioperative Period 14 Feb 2018
	Meyer EJ, Gabb G and Jesudason D. Diabetes Care. 13 Feb 2018
Groups consulted in development of this protocol	N/A

AUTHORISATION		
Author (Name)	Dr A. Poynten	
Position	Staff Specialist Endocrinologist	
Department	Endocrinology, Prince of Wales Hospital	
Department Contact (for ongoing maintenance of Protocol/Guideline)	02 93924600	
GOVERNANCE		
Enactment date/ Renewal date	July 2018 September 2021	
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Ratification date by SESLHD QUM Committee	2 nd September 2021	
Chairperson, QUM Committee	Dr John Shephard	
Version Number	3	

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