Current Vs Potential Uptake Of Sodium-Glucose Cotransporter 2 Inhibitors In Cardiology Patients With Type 2 Diabetes

Introduction

- Sodium-glucose cotransporter 2 (SGLT2) inhibitors reduce the risk of cardiovascular events in type 2 diabetes (T2DM) patients with, or at high risk of, cardiovascular disease.
- In practice, they are considered as second-line anti-hyperglycaemic agents following metformin.

Aim

To identify the proportion of suitable T2DM patients referred to cardiology, i.e. those who may benefit from SGLT2 inhibitors, in a London teaching hospital.

Methods

- We retrospectively analysed 452 inpatients who were referred to the \bullet cardiology team from 1 August 2019 to 31 January 2020.
- To determine which patients may have benefited from SGTL2 inhibitors, we used the set of screening criteria set out in the table below.
- We based these criteria on three large-scale cardiovascular outcome trials: EMPA-REG, CANVAS and DECLARE-TIMI 58.

no	HbA1C ≥ 48 AND < 108 mmol/mol	
	High risk for cardiovascular (CV) event, defined as EITHER :	
	Established CV disease	CV risk factors
Inclusion	At least one of:	Age (men≥55, women≥6
Incl	STEMI/NSTEMI	AND at least one of:
	PCI (+/- stent)/CABG	Hypertension
	Stroke	Hypercholesterolaemia
	Occlusive peripheral arterial disease	Current smoker
Exclusion	eGFR < 30 or on dialysis	
	ACS, stroke, TIA, any revascularization within 2 months or on admiss	
	Notable endocrine disorder excluding hyper or hypothyroidism	

Christine Shi, Balrik Kailey and Kevin Fox



appropriate patients.

NHS Imperial College Healthcare NHS Trust • 32% (143/452) of all inpatient cardiology referrals had T2DM. Of these, 40% (57/143) may have benefited from SGLT-2 inhibitors. • This is over 1 in 8 cardiology referrals. Only 5% (3/57) of identified patients were already on SGLT2 inhibitors. • None of the patients had prior unacceptable side effects due to SGLT2 inhibitors. 12 Insulin SGLT2 inhibitor

collaboration between endocrinologists and cardiologists to optimise SGLT2 inhibitor prescription in