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Phase II Dose-Selection, Randomised, Controlled Trial of ASi BI 690517 With and Without EMPA in CKD: Subgroup Analysis by T2D Status

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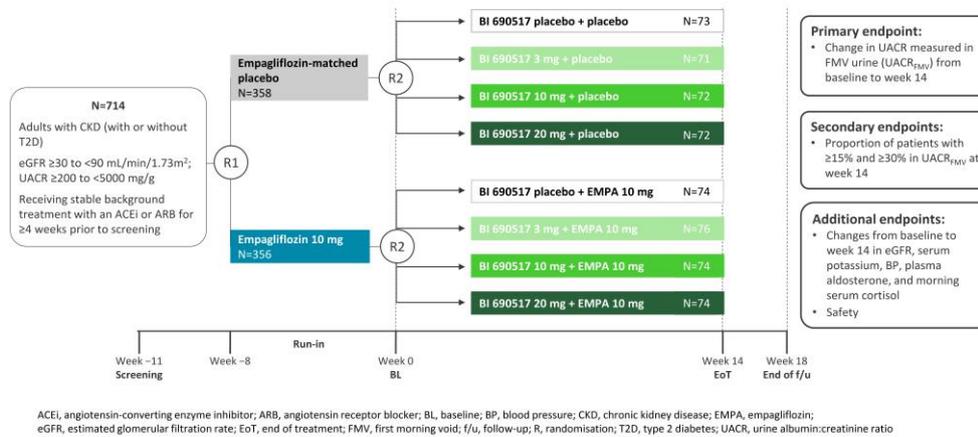
Objectives : We investigated efficacy and safety of BI 690517, a novel aldosterone synthase inhibitor (ASI), in people with CKD with or without type 2 diabetes (T2D), and present an analysis by T2D status, pooled for background randomisation to empagliflozin (EMPA) or placebo (PBO_{EMPA}).

Methods : Trial design is shown in Figure 1.

Results : 586 people were randomised at R2; 414 (70.6%) with T2D, and 172 (29.4%) without T2D. Baseline demographics and clinical characteristics were mostly similar between these groups. However, those with T2D had higher mean BMI (30.6 vs 28.3 kg/m²), systolic BP (135.3 vs 130.2 mmHg), eGFR (53.0 vs 49.4 mL/min/1.73m²), and median UACR (444.7 vs 409.2 mg/g) than those without T2D. BI 690517 consistently reduced UACR versus PBO_{ASI} in people with and without T2D (p = 0.38, indicating no between-group difference in treatment effect), with the largest reductions observed in the 10 and 20 mg dose-groups; however, for the 3 mg dose-group, UACR reduction was only observed in people with T2D (Figure 2). UACR response ($\geq 30\%$ reduction in UACR at week 14) was achieved in more than half of people with and without T2D in the BI 690517 10 and 20 mg dose-groups, with the highest response rates in those also receiving EMPA (10 mg dose-group: with T2D, 74.3%; without T2D, 64.0%). Adverse events leading to discontinuation of BI 690517 10 and 20 mg were more common among people with T2D than among those without T2D.

Conclusions : In people who had CKD, with or without T2D, BI 690517 dose-dependently reduced UACR, with high rates of UACR response suggestive of additive beneficial effects when given with EMPA.

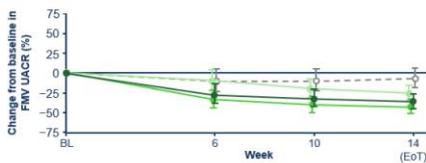
Figure 1: Trial design – multinational, phase II, double-blind, dose-selection, randomised controlled trial (NCT05182840)



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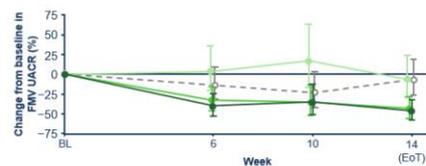
Figure 2: Median (95% CI) percentage change from R2 BL in UACR up to Week 14 following BI 690517 treatment in people (A) with and (B) without T2D

A. With T2D



Change from baseline to week 14	Median % change in UACR (95% CI)	PBO-corrected change (95% CI)
○ Pooled* BI 690517 pbo (n=80)	-6.3 (-18.1, 7.3)	Ref
● Pooled* BI 690517 3 mg (n=86)	-25.1 (-34.3, -14.6)	-20.1 (-33.8, -3.6)
● Pooled* BI 690517 10 mg (n=62)	-42.1 (-50.3, -32.6)	-38.2 (-49.6, -24.4)
● Pooled* BI 690517 20 mg (n=61)	-35.1 (-44.3, -24.5)	-30.8 (-43.5, -15.1)

B. Without T2D



Change from baseline to week 14	Median % change in UACR (95% CI)	PBO-corrected change (95% CI)
○ Pooled* BI 690517 pbo (n=40)	-5.8 (-25.8, 19.6)	Ref
● Pooled* BI 690517 3 mg (n=29)	-5.4 (-28.3, 24.7)	0.4 (-30.4, 44.7)
● Pooled* BI 690517 10 mg (n=36)	-42.8 (-55.2, -27.1)	-39.4 (-56.9, -14.7)
● Pooled* BI 690517 20 mg (n=34)	-46.1 (-58.0, -30.8)	-42.8 (-59.5, -19.2)

BL, baseline; CI, confidence interval; EoT, end of treatment; FMV, first morning void; T2D, type 2 diabetes; UACR, urine albumin:creatinine ratio
*Pooled groups include participants who received BI 690517, given either alone or in combination with EMPA