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## Long-term efficacy and safety of anti-hyperglycaemic agents in newonset diabetes after transplant: Results from outpatient-based 1-year follow-up and a brief review of treatment options

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## Abstract

**Background and aims:** Evaluation of long-term efficacy and safety of various anti-hyperglycaemic agents (AHA) for glycaemic control in NODAT, in stable kidney transplant recipients (KTRs) during 1-yearoutpatient follow-up.

**Methods:** We collected FPG, PPG, HbA1c, serum creatinine, eGFR, blood tacrolimus level, hypoglycaemiaand body weight values from an existing database of KTRs diagnosed to have NODAT. Those newly initiated on AHA over 3 months post-transplant; received standard triple immunosuppressive therapy; and followed up for 1-year after referral, were included.

**Results:** In ninety-five patients' (Male  $\frac{1}{4}$  65), mean decrease at 1-year from baseline in FPG (185.01 ± 62.11 mg/dL), PPG (293.21 ± 85.23 mg/dL) and HbA1c (8.48 ± 1.08%) was 67.09, 126.11 and 1.4 respectively (p < 0.0001). At 1-year, mean HbA1c was 7.08 ± 0.38%, ninety-one patients achieving HbA1c 7.5%. Fifty-two patients received oral combination therapy based on linagliptin/metformin/ repaglinide/gliclazide, 19 received insulin-based regimen, and 24 received linagliptin monotharapey. Thirty patients reported hypoglycaemia (10 with gliclazide and 15 with insulin) and fifty patients

gainedbody-weight at 1-year. Mean serum creatinine and eGFR significantly improved by 0.29 and 15.77 from baseline of  $1.56 \pm 0.62$  mg/dL and  $53.95 \pm$ 16.10 mL/min/1.73 m2 respectively.

**Conclusions:** Significant proportion of NODAT patients achieved long-term glycemic control with improved renal function. Combination therapy was needed in most within 1-year. Linagliptin monotherapywas effective, without producing hypoglycaemia or weight gain.

## **Biography**

Dr Debmalya Sanyal has completed the studies MBBS(Honours), DTM&H, MD(Medicine), MRCP, FRCP, D.M.(Endocrinology), Specialty Certificate in Endocrinology & Diabetes (SCE, UK), FACE (USA).

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