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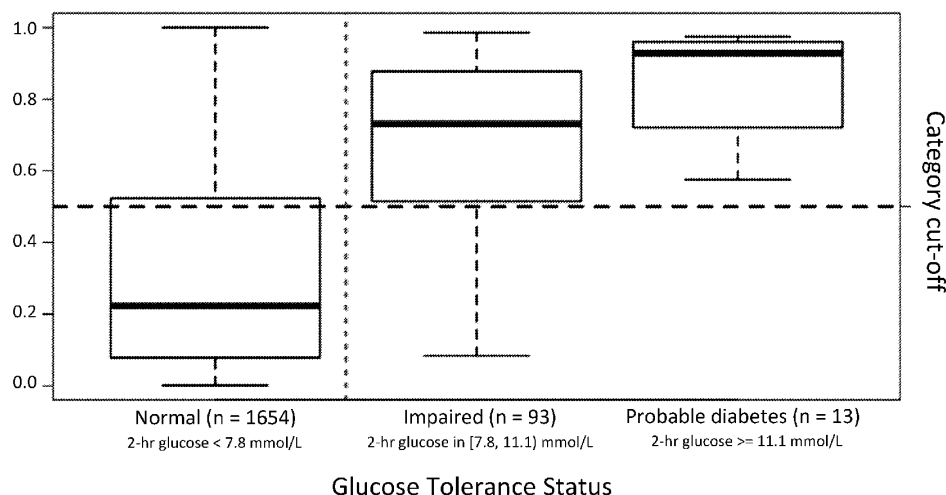


FIG. 4

(57) Abstract: Methods, compositions, and kits for determining whether a subject has impaired glucose tolerance, and more specifically pre-diabetes or diabetes, are provided.