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Remission of type 2 diabetes mellitus: Bile acid signalling and incretins

There is growing evidence of long-term remission of type 2 diabetes after metabolic surgery (bariatric surgery) however; the pathophysiology of improved glucose metabolism after surgery remains poorly understood. Bile acids are the main component of human bile and have traditionally been considered mediators of lipid absorption and cholesterol metabolism, facilitated by their amphipathic nature. In recent years bile acids have been identified as metabolic molecules which regulate glycaemic control amongst other processes via activating the nuclear receptor, farnesoid X receptor (FXR) and the G protein-coupled membrane receptor (TGR5). Furthermore the interplay between bile acids and incretin hormones such as glucagon like peptide-1 (GLP-1) has given us new insight into their collective contribution in improving glycaemic control. Bile acid pool and composition are

altered following certain metabolic surgeries such as Roux-en-Y gastric bypass (RYGB) and the post-prandial GLP-1 responses are enhanced after RYGB. This session will review our current understanding of these metabolic regulators and the potential role they play in the remission of type 2 diabetes mellitus after metabolic surgery.

Speaker Biography

Royce Vincent is a consultant chemical pathologist at King's College Hospital NHS Foundation Trust and an Honorary Senior Lecturer at King's College London, UK. He has a special interest in nutrition and endocrinology and is the clinical lead for biochemistry and parenteral nutrition services. He obtained his MD (Res) at Imperial College London and his research interests are in obesity, endocrinology and clinical nutrition. He has published multiple original and review articles and is serving as an international editorial board member for Translational Metabolic Syndrome Research.

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