



16262-Review

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Name of journal: World Journal of Diabetes

ESPS Manuscript NO: 16262

Columns: Editorial

Incretin manipulation in diabetes management

Joseph M Pappachan, AV Raveendran, Rajagopalan Sriraman

Abstract

2
Incretin-based therapies have revolutionized the medical management type 2 diabetes mellitus (T2 DM) in the 21st century. 48
Glucagon-like peptide-1 (GLP-1) suppresses appetite and gastric motility, and has trophic effects on pancreas, cardio-protective and renal effects. 1
GLP-1 analogues and dipeptidyl peptidase-4 (DPP-4) inhibitors form the incretin-based therapies. Significant reduction of hemoglobin A1c when used as monotherapy and in combination regimens, 2
favorable effects on body weight, and low risk of hypoglycemia are their unique therapeutic benefits. Their safety and tolerability are comparable to other anti-diabetic medications. Concern about elevated risk of pancreatitis has been discarded by 2 recent meta-analyses. This article discusses the therapeutic manipulation of incretin system 62
the management of T2 DM.

12
Key words: Incretin hormones, incretin-based therapies, glucagon-like peptide-1 (GLP-1) analogues, dipeptidyl peptidase-4 (DPP-4) inhibitors, pancreatitis

Core tip: Development of multiple pharmaceutical agents by the manipulation of

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