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Manuscript Type: REVIEW

Glargine-300: An updated literature review on randomized controlled trials and real-world studies

Ghosh S *et al.* Gla-300: Second generation BI

Sujoy Ghosh, Romik Ghosh

Abstract

Despite the availability of a variety of insulins, rates of insulinisation and the acceptance of insulin therapy is suboptimal in real-world clinical settings. Patient and physician concerns with hypoglycaemia and weight gain are the two key issues that serve to impede appropriate insulinisation in patients with diabetes. Recently introduced second-generation basal insulin analogues [for *e.g.*, insulin glargine 300 U/mL (Gla-300) and insulin degludec] are designed to have improved pharmacokinetic profiles with an intention to deliver steady insulin levels over a longer period. Several randomised controlled and real-world studies have proven the

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