Several of these anomalies can be identified in the current commercially available target-controlled infusion systems and are discussed in this review” Engbers and Dahan (2018).

Summary

Although target-controlled infusion has been in use for more than two decades, its benefits are being obscured by anomalies in clinical practice caused by a number of important problems. These include: a variety of pharmacokinetic models available in open target-controlled infusion systems, which often confuse the user; the extrapolation of anthropomorphic data which provokes anomalous adjustments of dosing by such systems; and the uncertainty of regulatory requirements for the application of target-controlled infusion which causes uncontrolled exploitation of drugs and pharmacokinetic models in target-controlled infusion devices. Comparison of performance of pharmacokinetic models is complex and mostly inconclusive. However, a specific behaviour of a model in a target-controlled infusion system that is neither intended nor supported by scientific data can be considered an artefact or anomaly. Several of these anomalies can be identified in the current commercially available target-controlled infusion systems and are discussed in this review.

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