## Smart drug delivery systems in anaesthesia an Indian scenario

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The conventional drug delivery system is the absorption of the drug across a biological membrane, whereas the targeted release system releases the drug in a dosage form. Novel Drug Delivery System (NDDS) refers to the approaches, formulations, technologies, and systems for transporting a pharmaceutical compound in the body as needed to safely achieve its desired therapeutic effects. Whereas the Targeted drug delivery, sometimes called smart drug delivery is a method of delivering medication to a patient in a manner that increases the concentration of the medication in some parts of the body relative to others. The goal of a targeted drug delivery system is to prolong, localize, target and have a protected drug interaction with the diseased tissue. It has advantages like the reduction in the frequency of the dosages, having a more uniform effect of the drug, reduction of the adverse effect of drugs and reduced fluctuation in circulating drug levels. The disadvantage of the system is high cost, which makes productivity more difficult and the reduced ability to adjust the dosages. Newer intravenous drugs used for TIVA having a short duration of action so, fast recovery to maintain plasma level and to achieve the constant targeted level of sedation, analgesia, and anaesthesia targeted release system is useful which releases the drug in a dosage form. I will discuss a review of target controlled infusion total intravenous anaesthesia in India.

### Biography

Jigisha P Badheka MD Anaesthesiology Working as an Associate Professor, In Department of Anaesthesiology, PDU Medical College, Rajkot Instructor for ACLS, BLS. PG Certificate course QM & AHO (Quality Management & accreditation of health Care organization) by AHA, and Disaster Management course by IGNOU. Wide experience in all the fields of anesthesia, Tutor for 11/2 yrs 1995-97 Class 1 anaesthesiology for 3 yrs.1997-99 Assistant professor for 7 yrs.1999- 2007 Associate professor since 2007 till date. Internal and external examiner since last 10yrs. Publications for national and international journals. Speaker for state and national conference.

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