

# 4<sup>th</sup> International Conference on Pharmaceutical Regulatory Affairs

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## Pharmaceutics & novel drug delivery systems

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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. It may involve scientific site-targeting within the body, or it might involve facilitating systemic pharmacokinetics; in any case, it is typically concerned with both quantity and duration of drug presence. Novel drug delivery is often approached via a drug's chemical formulation, but it may also involve medical devices or drug-device combination products. Drug delivery is a concept heavily integrated with dosage form and route of administration. NDDS is advanced drug delivery system which improves drug potency, control drug release to give a sustained therapeutic effect, provide greater safety; finally it is to target a drug specifically to a desired tissue. NDDS is a system for delivery of drug other than conventional drug delivery system. NDDS is a combination of advance technique and new dosage forms which are far better than conventional dosage forms.

### Advantages of novel drug delivery system are:

- Optimum dose at the right time and right location
- Efficient use of expensive drugs, excipients and reduction in production cost
- Beneficial to patients, better therapy, improved comfort and standard of living

### Basic modes of novel drug delivery systems are:

- Targeted Drug Delivery System
- Controlled Drug Delivery System
- Modulated Drug Delivery System

### Factors affecting the design of controlled release products are:

- Physicochemical properties of a drug
- Route of administration
- Acute/Chronic therapy
- Target sites
- The Patient
- The disease state/level

## Biography

Tariq Jamshaid has 11 years diversified work experience of Quality Control, Manufacturing Processes, Pharmaceutical Product Design & Development, Process Optimization, Laboratory Management, Drug Registration Processes, GMP Requirements, Drugs Laws, Statistical Methodology, Manufacturing Process Validation, Cleaning Validation, ISO 9001:2008 with strong scientific, analytical, statistical, planning, managerial and training skills. Currently, he is working as a Sr. Manager Production & Development for Surge Laboratories Pvt. Ltd., Pakistan.

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