

Strategic Initiative Integrated Clinical Environments (ICE) workshop:

## Next Generation Drug Delivery, Monitoring and Adherence Systems in Chronic Disease Management

Chronic disease management is a critical challenge in healthcare. Opportunities exist to improve patient care and reduce costs by focusing on approaches that integrate current and emerging technologies in drug delivery and monitoring across all care settings. Problems in monitoring and adherence are frequently discussed in primary care, pharmaceutical and technology conferences but rarely explored through the prism of integrated clinical environments – an approach that combines targeted interventions, technologies, monitoring, adherence and clinical settings in order to collaboratively find solutions, which are scalable across practices and health care delivery systems.

**The next generation of drug delivery** methodologies must incorporate *connectivity* to communicate accurate adherence via patient data to the clinician and feedback to the patient; leverage access to ubiquitous, enabling technologies and integrate care systems to maximize therapies for both acute and chronic conditions; minimize toxicity, adverse effects, inconvenience, and the economic and social costs of care.

### Workshop Topics

- Therapeutic Technologies: Routes of Administration
- Compelling Applications for Targeted Interventions
- Improved Monitoring & Adherence
- Drug Delivery Systems Integration & Scalability

### Workshop Goals

- **Educate the participants** about the existing research and potential drug delivery, monitoring and adherence systems.
- **Bring cross disciplinary** and cross institutional teams together to build collaborations.
- **Create a concrete plan** for testing ideas & devices in human studies and launching them commercially in the near future.

### Public-Private Partnerships

**The CIMIT Innovation Workshop on Drug Delivery** is an invitation-only, convening event for clinicians, engineers, entrepreneurs, government and military officials, and health/hospital leaders. Industry and foundation perspectives will be invited from organizations engaged in the CIMIT community through the [CIMIT Corporate Engagement Program](#) and other strategic stakeholder relationships. Approximately 50 participants are planned for this one-day, highly, interactive workshop.

**For more information, contact Lynn Osborn, [losborn@partners.org](mailto:losborn@partners.org)**

### DRUG DELIVERY INNOVATIONS

- Controlled, rapid or continuous release
- Continuous monitoring
- Improved patient medication adherence
- Increased safety
- Improved technique and feedback mechanisms
- Less invasive, targeted, applications
- Reduced side effects
- Reduced dose frequency
- Improved patient-clinician interaction
- Reduced costs
- Reduced mortality and morbidity
- Improved symptom and disease control