

ELECTRONIC DRUG CHAIN - ICZ eSestra

FULLY DIGITAL DRUG POLICY SOLUTION

THIS SOLUTION HELPS INCREASE PATIENT SAFETY, SIGNIFICANTLY REDUCES DRUG AND MEDICAL MATERIAL COSTS, AND REDUCES TREATMENT COSTS RESULTING FROM INCORRECT MEDICATION BY MEANS OF ELECTRONIC RESOURCES.

Electronic Drug Chain is a comprehensive solution of software and hardware components supporting institution-wide rational drug policies focused on increased patient safety and cost management. The costs of issued drugs are a significant fraction of institution-wide expenses. Medication errors (including potential drug interactions and contraindications) constitute a potential risk during healthcare provision. This solution includes support for the complete drug chain, including the individual sub-processes. The solution therefore deals with the operation of pharmacies, ready-for-use warehouses, structured medications and portable readers. Electronic Drug Chain uses information stored in a pharmacy or clinical information system, and provides solutions for ready-for-use warehouses, „e-prescriptions“, support for structured medication management, registers of drug deliveries and consumption and drug policy management support.

[COMPREHENSIVE SOLUTION]

ICT support for drug policy at any level is always based on detailed mapping of the current situation and the implementation of a drug policy management methodology and ICT tools throughout the complete spectrum. Since it is neither possible nor practical for complete ICT drug chain support to be provided by a single supplier, the ICZ solution applies an integration framework that can use and transform data from and between various external systems and technologies. The ICZ solution core provides tools supporting the drug policy from the moment of drug issue to the moment of drug application for a particular patient. The system does not operate just within the closed system of a single medical facility - it can be linked to external inputs such as public pharmacies, drugs brought in by patients to the healthcare facility, etc. The Electronic Drug Chain is also a cornerstone of rational therapy implementation in clinical facilities.

Drug chain scope

- ▶ Implementation of special software for drug flow records
- ▶ Implementation of portable devices and portable readers
- ▶ Implementation of an information system for ready-for-use warehouses
- ▶ A solution for the integration of all information from external information systems
- ▶ Delivery of analytic and optimization consulting services

All these technologies and procedures have been repeatedly practically and successfully verified in many healthcare facilities.

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FEATURES AND BENEFITS

- ▶ Demonstrably increased safety of treatment process for both patients and medical personnel
- ▶ Reduction in drug interactions and the resulting reduction in risk and complications for patients during treatment
- ▶ Substantial and quantifiable financial savings
- ▶ Complete elimination of drug-related crime
- ▶ Improved relations with suppliers - better conditions
- ▶ Improved drug policy management throughout the healthcare facility
- ▶ Quantifiable and substantial reduction in costs related to incorrect medication (e.g. treatment of drug interactions)
- ▶ Improved information accessibility and presentation within a wider context (e.g. patient summaries)
- ▶ An established base for rational therapy implementation

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[DRUG POLICY MANAGEMENT]

Effective pharmacotherapy, availability of needed drugs, maintenance of costs at an acceptable level and, last but not least, the optimal allocation of financial resources are the goals of the drug policy. Drug Policy Management can be an optional superstructure tool providing effective drug policy management by means of external Business Intelligence solutions. Besides support for the items mentioned above, it can also provide and create economic outputs and statistics.



[SAFE DRUG APPLICATION]

The idea behind this function is to improve patient safety, which is no longer based exclusively on the human factor. A physician issues prescriptions for drugs by means of structured records, and each specified drug is automatically checked for potential interactions. Drug prescriptions are displayed online on portable readers. A nurse, when delivering a drug, uses a portable reader to identify herself (himself), the patient and the drug, resulting in the elimination of potential medication errors (drug, patient or drug form substitution, failure to observe prescribed time intervals, failure to deliver the drug).

From the financial point of view, there is a reduction in the consumption of drugs needed to remedy medication errors. Drug loss is also eliminated (through monitoring drug deliveries to residentially treated patients). Another significant benefit is the elimination of penalization and drug cost payments from proprietary resources due to exceeding the prescription limits.

[DETAILED OVERVIEW]

Electronic Drug Chain provides summaries and detailed records of stock volumes and movements in all ready-for-use warehouses, including overviews of items before expiration and the automatic blocking of expired items. It supports restocking ready-for-use warehouses, reception (receiving notices of arrivals from the pharmacy IS, reception of shipments from pharmacies using a portable terminal) and comparisons between reality and the notices of arrivals. This solution also supports issuing processes: automatic deletion of items from ready-for-use warehouses as part of the delivery to patient records, transfers to other warehouses, returns to the pharmacy, etc.

[PORTABLE READER]

The solution includes a special intelligent peripheral hardware device - a portable reader that makes the work of medical personnel easier in a revolutionary way. The reader, which is equipped with an easy-to-read display, eliminates complicated and risky rewriting, and is able to read barcodes directly from drug packages (or from order forms and patient identification bracelets).



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