

E-prescription. Selected legal and functional aspects

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Abstract

This article is to present the concept of the electronic prescription model, taking into account legal regulations and technical solutions. Nowadays important changes have happened. In 2018, a law package regarding e-prescriptions was introduced in Poland that creates a new tool (electronic prescription) in the Polish market. Homogeneous tools enabling the security and integrity of e-documents and the approval of electronic signatures and seals are particularly important for the operation of the e-prescription. To enable the transmission of e-prescriptions it is required to join basic information and communications technology (ICT) system that supports e-prescribing to the main electronic identification system called Identification Electronic Node. In order to implement the e-prescription model, the launching of electronic medical records is indispensable. In most EU countries the e-prescription is implemented with the interchange standard of medical records called Health Level Seven (HL7). In terms of identification and authentication in e-prescribing, the eIDAS regulation plays a significant role. The electronic prescription has long been used in many countries, among which Sweden was one of the earliest (Sjunet system). Patients, physicians, pharmacies and the state will all benefit from the implementation. Ultimately, prescribers would have to use tools that will make it possible to ensure the confidentiality, integrity and credibility of transactions.

Key words: electronic prescription, legal regulations, e-prescription system model, standards, trust services

Słowa kluczowe: recepta elektroniczna, regulacje prawne, model systemu e-recept, standardy, usługi zaufania



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Przygotowanie do wydania elektronicznego finansowane w ramach umowy 641/P-DUN/2018 ze środków Ministra Nauki i Szkolnictwa Wyższego przeznaczonych na działalność upowszechniającą naukę.

1. The objective of the article

This article is to present the concept of the electronic prescription model (e-prescription) in view of EU and national regulations, and the legal and technical solutions necessary for its functioning, as well as to explain the concepts related to identification and to trust services. New regulations have introduced a number of legal institutions and concepts related to them – specifically, the concept of trust services, the use of which is neces-

sary to launch and develop the e-prescription project, i.e. creation of electronic signatures, electronic seals, electronic time stamps and registered electronic delivery services.

2. Prescription – definition and types

A prescription is a written instruction directed to a pharmacist, issued by an authorized entity under the binding regulations [1]. It concerns mainly medicines and medi-