

Medication safety belt with the Austrian e-card

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Overview

Pilot Project

Architecture

User Interface



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Overview (1/2)

- Potential savings of € 122 million by reducing adverse medication reactions and saving much more than 1,000 lives per year in Austria.
- Achieved by
 - examining interactions
 - checking multiple consumption
 - tracking the compliance of prescribed medication and over the counter products
- Participation of patients is voluntary, free, revocable at any time and conforms to the Privacy Act.
- Participation with a declaration and the e-card.
- Available in more than 1,200 public pharmacies and 50 pharmacies in hospitals.
- Checks of medications are based on national medication information database.

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Overview (2/2)

- The pharmacies are connected via VPN (virtual private network). The functionality can be integrated in the POS (point of sale) software of the pharmacies or used with a stand-alone client.
- The patients are connected via a web portal to see their dispensed medications and the documentation of the check results.
- The Medication safety belt will be the basis for the first application of the Austrian electronic health record.
- Integration of doctors, dentists and hospitals in the next phase.

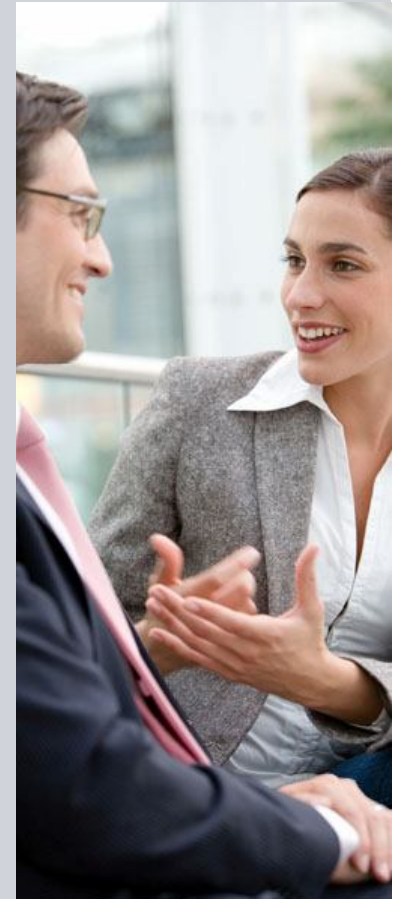
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Pilot project by Austrian Chamber of Pharmacists

- Since February 2007 in Salzburg:
 - in more than 70 pharmacies
 - with more than 9,000 patients
 - more than 80% of the interactions solved immediately by the pharmacist
 - three interactions per patient on average
- The most common serious interactions:
 - Marcoumar / Aspirin
 - multivitamin supplements / osteoporosis drugs
 - cholesterol-lowering / Antibiotics

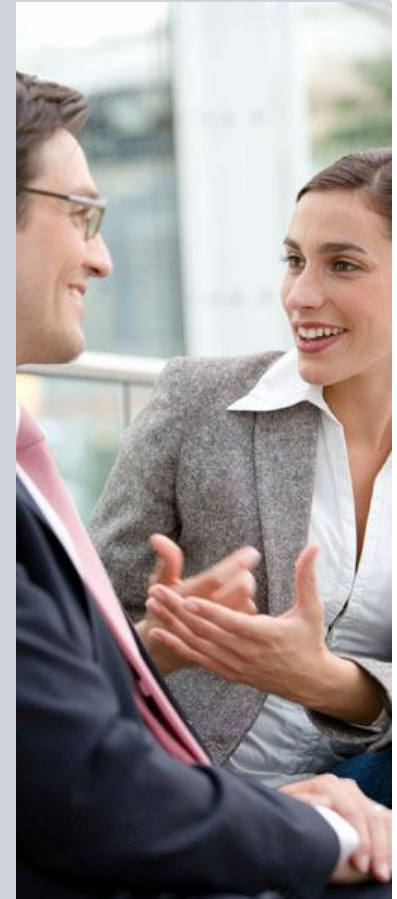
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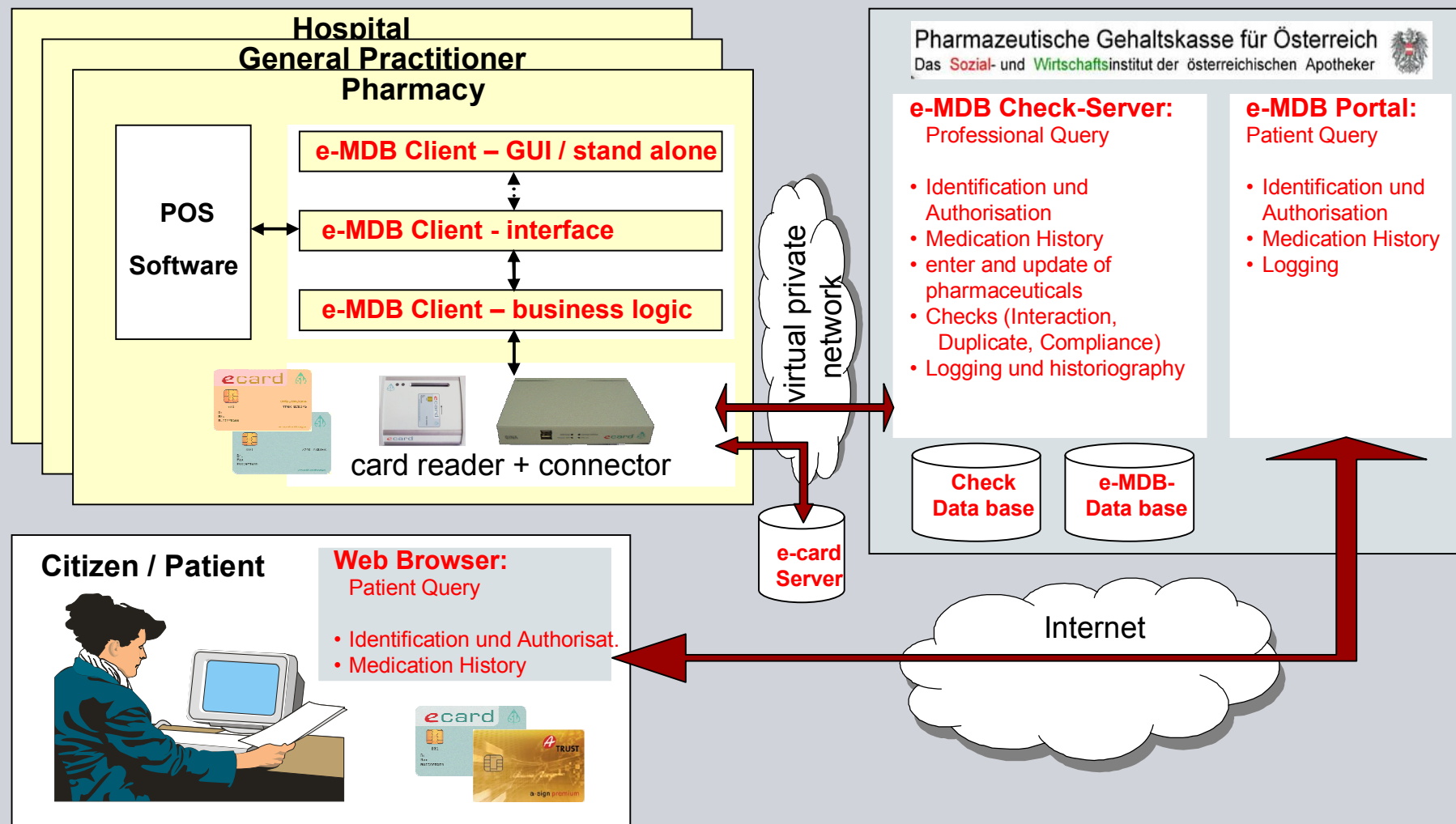
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Medication safety belt with the Austrian e-card Architecture

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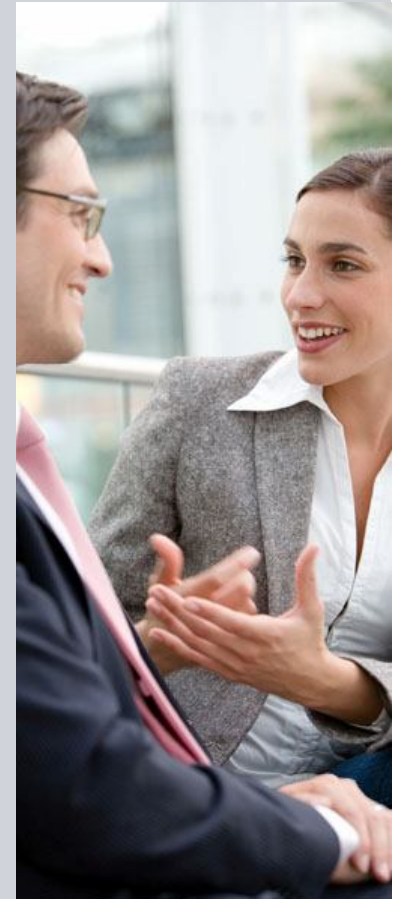
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Medication safety belt with the Austrian e-card User Interface

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The screenshot displays the 'Arzneimittelsicherheitsgurt' (Medication Safety Belt) software interface, which is designed for managing medication safety using the Austrian e-card system. The interface is divided into several sections:

- Top Menu:** Includes 'Anwendung', 'Patient', 'Nur Prüfung', 'Extras', and 'Hilfe'. Below the menu are icons for 'Medikationsdaten erfassen', 'Aktuelle Medikation', 'Einnahmeplan', and 'Patientenbearbeitung beenden'.
- Medikationsdaten erfassen (Left Panel):**
 - SV-Nummer: 5555140454 (with 'e-card lesen' button)
 - Patient: DI. Max Mustermann
 - Notizen: Notizen für Max Mustermann
 - Table of 'Arzneispezialität' (Medication Specialties) with columns for 'Arzneispezialität' and 'Packanzahl'. It lists:
 - 1 Rezept 123412341234
 - MARCOUMAR TBL 3MG 25 ST
 - ASS GEN TBL 500MG 20 ST
 - CLARITYN TBL 10MG 10 ST
 - Arzneispezialität: CLARITYN TBL 10MG
 - Therapieart: begrenzte Dauer
 - Dosierung: 1-0-1
 - Zusatztext: Einnahmehinweise für CLARITYN TBL 10MG
 - 'Stornieren' button at the bottom.
- Prüfungsübersicht Arzneispezialitäten (Right Panel):**
 - Table with columns: Arzneispezialität, Interaktion, Duplikat, Intervall.
 - Rezept 123412341234
 - Table rows:
 - MARCOUMAR TBL 3MG (Interaktion: 4, Duplikat: 1, Intervall: 1)
 - ASS GEN TBL 500MG (Interaktion: 2, Duplikat: 1, Intervall: 1)
 - ASPIRIN TBL 500MG (Interaktion: 2, Duplikat: 1, Intervall: 1)
 - CLARITYN TBL 10MG (Interaktion: 2, Duplikat: 1, Intervall: 1)
- Warnungen (Bottom Panel):**
 - Table with columns: Arzneispezialität / Kurzbeschreibung, Status.
 - Table rows:
 - ASS GEN TBL 500MG: Verstärkte Wirkung der Antikoagulantien - Blutungsgefahr
 - ASS GEN TBL 500MG: Verstärkte Wirkung d.oralen Antikoagulantien. Gefahr v.Blutungskomplikationen
 - ASPIRIN TBL 500MG: Verstärkte Wirkung der Antikoagulantien - Blutungsgefahr
 - ASPIRIN TBL 500MG: Verstärkte Wirkung d.oralen Antikoagulantien. Gefahr v.Blutungskomplikationen
- Right Side Buttons:**
 - 25 ST, 1 Packung(en)
 - Therapieart: Dauer
 - Dosierung:
 - Abgabedatum: 23.09.2008
 - Einnahmestart: 23.09.2008
 - Einnahmeende:
 - Buttons: EIN Rezept, SIS Kurzinformation, Medikationsende setzen, Dosierungsangabe..., Nicht dispensieren, Historie anzeigen.
- Bottom Buttons:** OK, Abbrechen.

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