

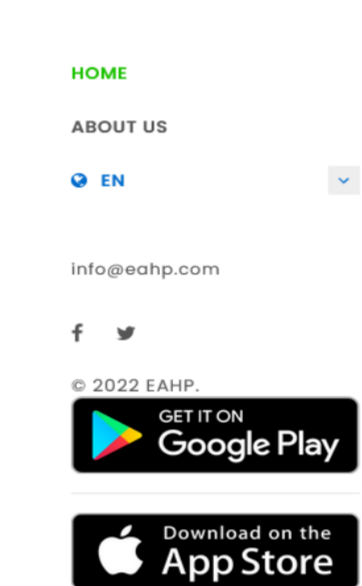
SOFTWARE TOOL DEVELOPMENT FOR RECONSTITUTION AND ADMINISTRATION OF PARENTERAL ANTIBIOTICS IN HOSPITALS: AN INTERNATIONAL PROJECT

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WHAT WAS DONE?

- ❖ A group of hospital pharmacists (HPs) from 6 Southeastern European countries created new software tools (a mobile-responsive website and mobile applications for Android and iOS) for providing information on reconstitution and administration of parenteral antibiotics
- ❖ Software tools contain parenteral antibiotic reconstitution/dilution database in seven different languages (English, Serbian, Croatian, Slovenian, Bosnian, Macedonian and Montenegrin)



RECONSTITUTION & DILUTION DATABASE FOR ANTIBIOTICS

approved and registered in Serbia, Croatia, Slovenia, Bosnia and Herzegovina, North Macedonia and Montenegro

LOGIN REGISTER



WHY WAS IT DONE?

- ❖ **Our study (2021)**, conducted as a cross-sectional study in 12 hospitals in participating countries → demonstrated the need of parenteral antibiotic reconstitution/dilution database
- ❖ **EAHP Statement 5.5** → implementation of electronic decision support system by HPs should help to decrease the risk of medication errors
- ❖ **Purpose:** gather all relevant information regarding parenteral antibiotic reconstitution/dilution and make them easily accessible

HOW WAS IT DONE?

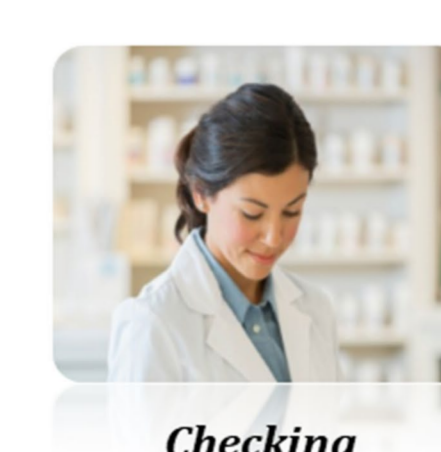
- ❖ Technical requirements for website and mobile applications were designed by HPs
- ❖ Development of these software tools was carried out by a software developer and funded by EAHP

WHAT HAS BEEN ACHIEVED?

- ❖ Designing and developing these software tools helps HPs to provide evidence-based information about parenteral antibiotic reconstitution/dilution at the point of care, thus improving decision-making process and patient safety
- ❖ Reconstitution of parenteral antibiotics in wards is efficient and smooth
- ❖ Oral and written instructions for parenteral antibiotic reconstitution/dilution are replaced by electronic decision support tools, designed to prevent medication errors
- ❖ HP's interventions are required to support the use of these software tools



Prescribing



Checking



Administration

WHAT NEXT?

- ❖ Wider use of these software tools in order to ensure the appropriate reconstitution/dilution of parenteral antibiotics in wards by nurses and physicians
- ❖ Implementation into hospital information system and periodic update

GPI number: PSQ12108

