PIM-CHECK: Development of the first electronic prescription-screening checklist to support healthcare professionals in the detection of potentially inappropriate medication

HUG
Pharmacie des HUG

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Why it was done

- **8.8% of medication orders** contain **≥1 medication errors**[1]

- **Potentially inappropriate medication** (PIM)=
    - -under-prescriptions
    - -over-prescriptions
    - -interactions
    - -wrong choice of medication

➔ **Risk factor for medication errors**[2]

What was done

Development of the 1st Electronic prescription-screening checklist to detect PIM

What was achieved
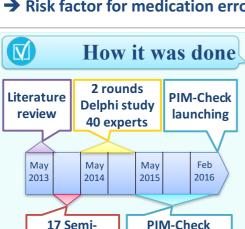
- **Since the lauching in Feb 2016**
    >95.000 connections,
    >66 countries
    >7.100 connections/month

- **1st assessments**
- 109 patients : PIM-Check displayed **> 30 % of DRPs**

>73% at moderate or high risk for patients[3]

How it was done

- **Literature review**
- **2 rounds Delphi study 40 experts**
- **PIM-Check launching**

May 2013 — May 2014 — May 2015 — Feb 2016

- **17 Semi-structured interviews**
- **PIM-Check electronic tool elaboration**

PIMCheck
Potentially Inappropriate Medication - Patients in the Internal Medicine unit

Content

- **17 specialities**
- **56 pathologies**
- **160 items**
- **333 references**
- **29 useful links**

www.pimcheck.org

Functions

- **Screening** PIM according to comorbidities treatements
- **Favourite** items
- **Items list** Including formation function

Target users

- **Cliniciens**
- **Clinical pharmacists**
- **Students / Residents / Young healthcare professionals**

What is next

Scientific perspectives
- Validation studies
- Update

Technological perspectives
- App development (offline access)
- Electronic health records integration

Collaborative perspectives
- International hospital
- Start-up, business incubator, public-private partnership

Références 1.Ashcroft DM, et al. Drug Saf. 2015 // 2. Naples J. J Am Geriatr Soc. 2016 // 3. Blanc AL, et al. PIM-CHECK used by physicians to reduce drug related problems in internal medicine. 22nd EAHP Congress. Poster CP-029

eahp european association of hospital pharmacists

Good Practice Initiative GPI CPS4977

22nd CONGRESS OF THE EAHP
Hospital pharmacists - catalysts for change
22-24 March 2017, Cannes, France

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pharmacie.huge-ge.ch /rd/posters.html