

Use of mobile devices to support clinical Pharmacy

FILIPA ALVES DA COSTA

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Conflict of interests

- Views expressed during this talk are my own and do not represent any organisation associated with my CV.
- I received no honoraria for presenting at this conference.

Roles

- Associate Professor, Instituto Universitário Egas Moniz (IUEM).
- Invited Professor, Faculty of Pharmacy, University of Lisbon (FFUL)
- Senior Researcher in medicines effectiveness, National Cancer Registry.
- · Advisor for the Portuguese Pharmaceutical Society



Technological Revolution





What is mobile health?





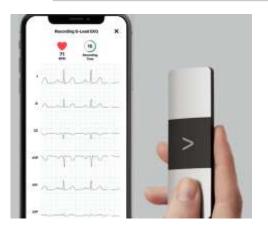
How can mobile health be useful for clinical pharmacy?



Identification Treatment Treatment Remote Documenting Outcomes

From identification of suspects to early diagnosis









https://www.fibricheck.com/how-fibricheck-measures-your-heart-rhythm/

Lobban et al. Identifying the undiagnosed AF patient through "Know Your Pulse" community pharmacy based events held in ten countries during Arrhythmia Alliance World Heart Rhythm Week 2017. Eur Heart Journal 2018. Cunha et al. Raising awareness and early detection of atrial fibrillation, an experience resorting to innovative technology and interprofessional collaboration. Research in Social and Administrative Pharmacy 2019.

From symptom assessment to early diagnosis



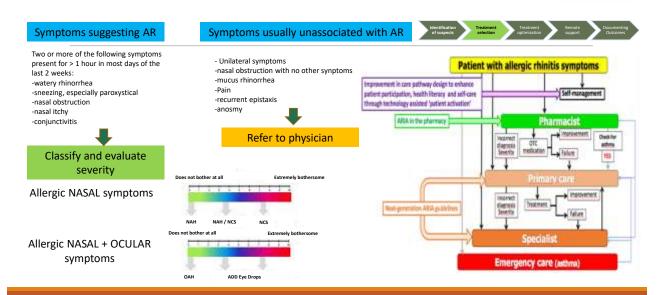


Lourenço et al. Evaluation of allergic rhinitis and asthma control in a Portuguese community pharmacy setting. J Manag Care Spec Pharm 2014.

Bousquet et al. MASK 2017: ARIA digitally-enabled, integrated, person-centred care for rhinitis and asthma multimorbidity using real-world-evidence. Clin Transl Allergy 2018

Treatment selection





Paulino E, Fonseca J, Lourenço O, Costa E, Costa F. ARIA in the pharmacy: A national standpoint within a global study. Community Pharmacy poster at FIPSUB-2207

Treatment access and treatment selection





Apteekin Neuvontatyökalu







Patient Access. The Pharmaceutical Journal, JUL 2019.

Treatment optimisation

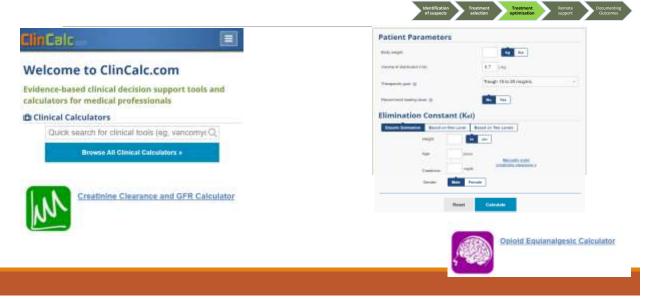




WHO. Improving health system efficiency as a means of moving towards universal coverage. 2016

ESCP Eurosco Samuly of Channel Pharmacy

Treatment optimisation

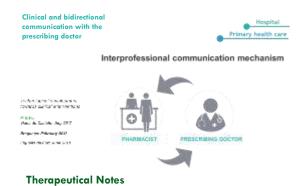




Treatment optimisation



AVOIDABLE HOSPITAL ADMISSION



HOSPITAL DISCHARGE: VIRTUAL CLINICS, LONDON







ESCP European Samuely of Chimal Pa

Remote support and self-care









Cancer survivor coach

https://www.mybreastcancercoach.org/en-US/breast-cancer-app

e-kvit

Remote support and self-care Medication adherence S881 apps Adherence strategies Adherence strategies Reminder n=387 Push notification n=337 Reminder n=387 Push notification n=5 n=178 Reminder n=387 Personal tracking n=178 Reminder n=387 Personal tracking n=178 Reminder n=387 Reminder n=

Ahmed et al. Medication Adherence Apps: Review and Content Analysis. JMIR Mhealth Uhelth 2018

7



Interconnectivity experiences developing

REQUESTING A RX RENEWAL REMOTELY



AUTOMATIC RENEWAL OF PRESCRIPTIONS FOR CHRONIC DISEASE PATIENTS



SCHEDULING A MEDICAL APPOINTMENT



Helping oncology patients navigate the system















- ADRs what to do?
- Severity evaluation
- What to do when forgetting pill
- Food-drug interactions
- Drug-drug interactions
 Trigger to disease
 - progression symptoms





- 3) Possibility to activate A&E
- 2) When and how to contact: Nurse Pharmacist Psychologist Oncologist
- 1) Clarification and reassurance

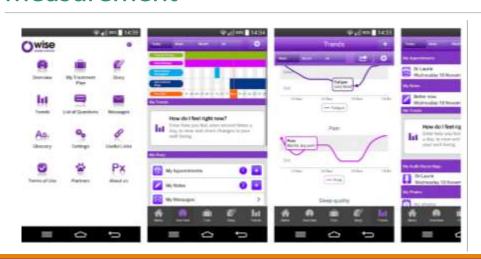
Documentation of care and impact measurement





PROs, PREs and impact measurement





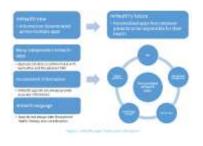


Challenges

GP at Hand to go live in Birmingham after expansion is approved

2) Workforce and payment models

1) Interconnectivity of softwares





Roland, M. (2019). General practice by smartphone. BMJ, I4713. doi:10.1136/bmj.I4713



Challenges



The Redefinition of Pharmacy Jobs. Drug Topics. 2019



Comments & questions



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