### UZ INSIGHTS FROM THE ASPIRE randomised controlled UZ INSIGHTS FROM THE ASPIRE randomised controlled trial on pharmacist-led medication reviews



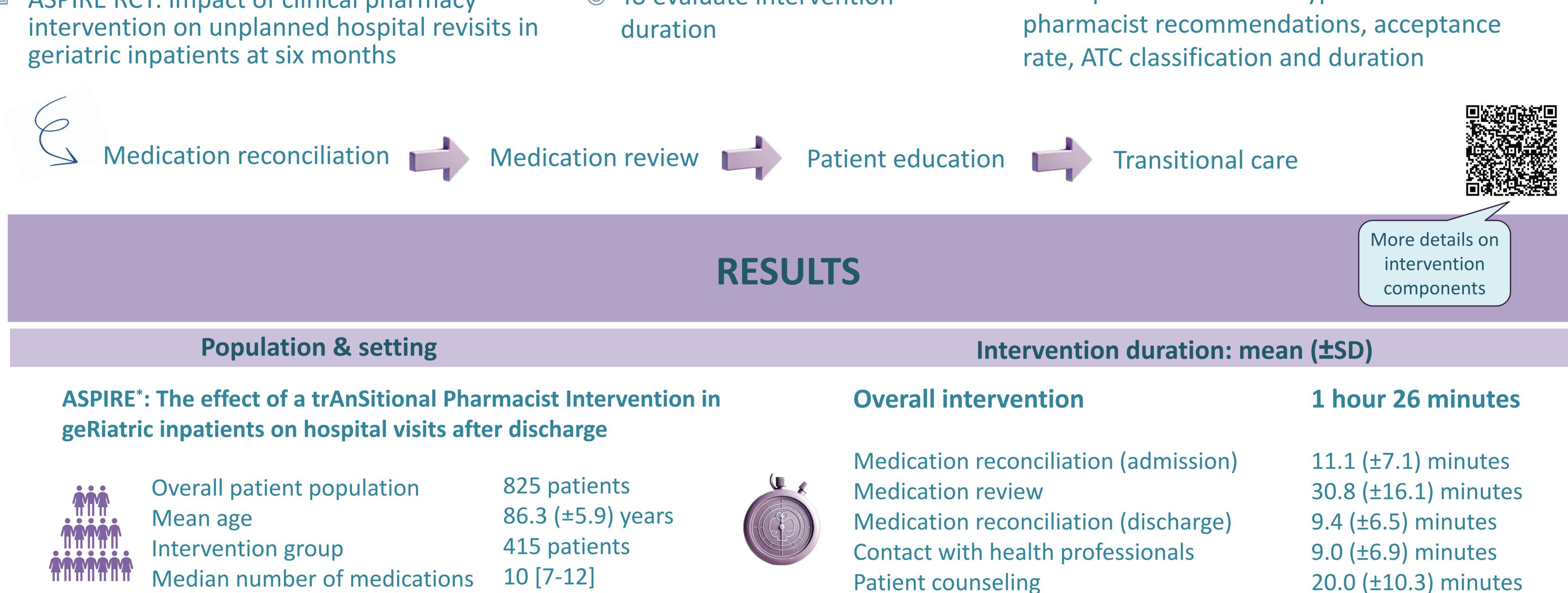
Hellemans Laura<sup>1,2,3</sup>, Hias Julie<sup>1,2</sup>, Walgraeve Karolien<sup>1</sup>, Liesenborghs Astrid<sup>1</sup>, Lammens Astrid<sup>1</sup>, Vanderstuyft Esther<sup>1</sup>, Deschodt Mieke<sup>4,5</sup>, Van der Linden Lorenz<sup>1,2</sup>, Tournoy Jos<sup>4,5</sup>

1 University Hospitals Leuven, Hospital Pharmacy, Leuven, Belgium. 2 KU Leuven, Department Of Pharmaceutical And Pharmacological Sciences, Leuven, Belgium. 3, Research Foundation Flanders (FWO), Brussels, Belgium. 4 University Hospitals Leuven, Geriatric Medicine, Leuven, Belgium. 5 University Hospitals Leuven, Department of Public Health and Primary Care, Leuven, Belgium.

# BACKGROUND & IMPORTANCEAIM & OBJECTIVESMATERIAL & METHODS

High-risk geriatric inpatients: complex balance between medication benefits and harms

- ASPIRE RCT: impact of clinical pharmacy
- To analyze recommendations from medication reviews
- To evaluate intervention
- **Acute geriatric wards UZ Leuven**
- Descriptive statistics for type and number of



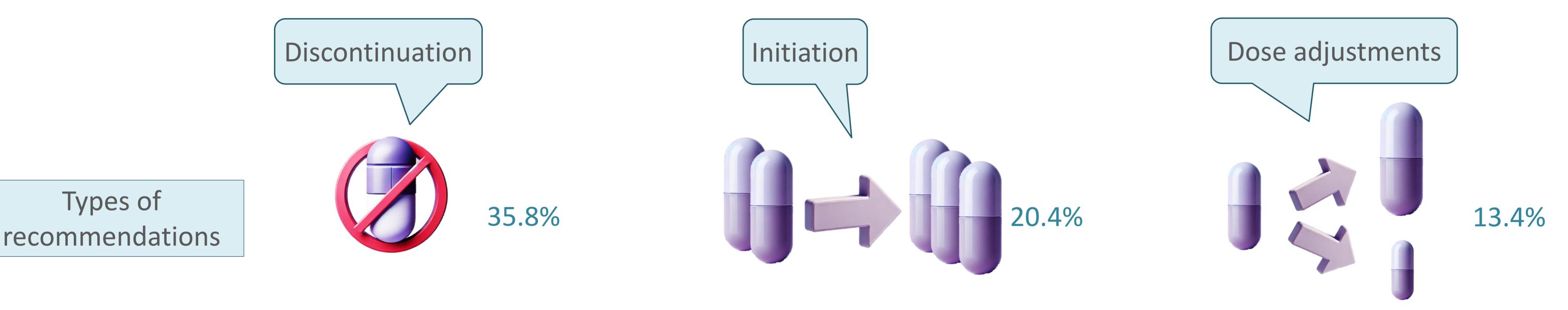
5.9 (±4.4) minutes

#### **Medication review process**

Total of 1160 pharmacist recommendations in 414 medication reviews

At least one recommendation for 91.6% intervention patients at discharge

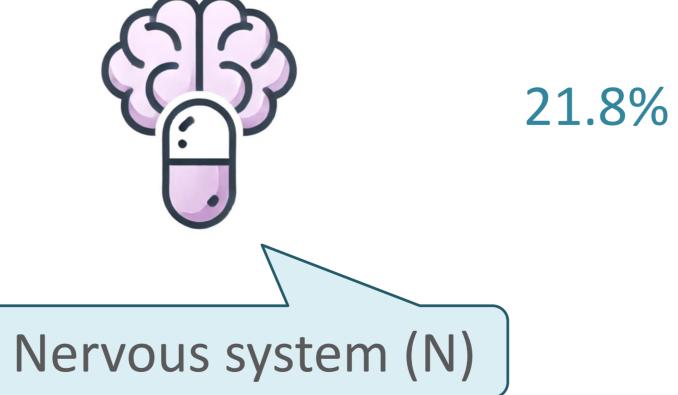
Average of 3.1 [SD 1.7] recommendations per patient with 89.7% accepted by treating physician

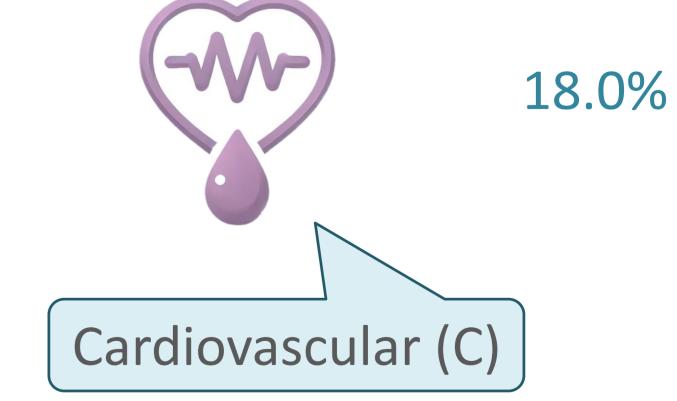






Alimentary tract & metabolism (A)





### **CONCLUSION & RELEVANCE**

Even among this very old patient group, **underuse** was **effectively captured** by trained pharmacists

About a fifth of all recommendations focused on **cardiovascular drugs**, a commonly neglected part of the medication review for pharmacists.

It is **feasible to adjust** medication during hospital stay

\* Hias J, Hellemans L, Laenen A, Walgraeve K, Liesenborghs A, De Geest S, Luyten J, Spriet I, Flamaing J, Van der Linden L, Tournoy J. The effect of a trAnSitional Pharmacist Intervention in geRiatric inpatients on hospital visits after dischargE (ASPIRE): Protocol for a randomized controlled trial. Contemp Clin Trials. 2022 Aug;119:106853. doi: 10.1016/j.cct.2022.106853. Epub 2022 Jul 14. PMID: 35842106. SD: Standard Deviation; ATC: Anatomical Therapeutical Chemical Classification

UZ Herestraat 49 Leuven B - 3000 Leuven

www.uzleuven.be tel. 0032 (0)16 33 22 11

## UNIVERSITY HOSPITALS LEUVEN

