Patient impact of transferring hospital-only medicines dispensing to community pharmacies: a longitudinal prospective study









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BACKGROUND

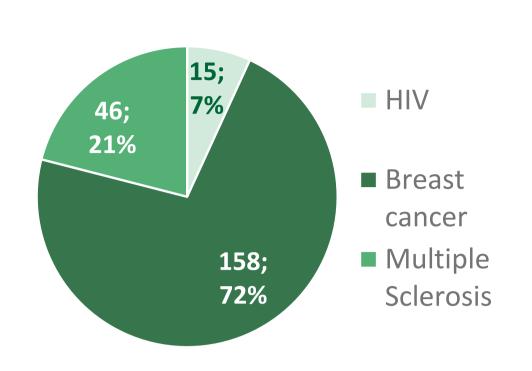
Improving healthcare decisions

- Portugal, the dispensing of outpatient specialty was carried medicines through hospital exclusively pharmacies, totally financed by the National Health Service $(NHS)^{1,2}$.
- collaborative program -Farma2Care - was implemented in December 2019, between a (Centro public hospital Hospitalar Universitário de São João), the Portuguese National Association Pharmacies of (ANF), the Portuguese Association of Pharmaceutical Distributors (ADIFA) and the Pharmaceutical Portuguese Society.
- This study aims to assess the impact of transferring dispensing of medicines for human immunodeficiency virus (HIV), multiple sclerosis (MS) and breast cancer from hospital pharmacies (HP) to community pharmacies (CP), through this pilot program in Portugal.

METHODS

- A prospective longitudinal study was carried out. Participants recruited during the routine medical visits in a public hospital in the north selected and region community pharmacy of their convenience for medication dispensation.
- collected from Data was 19th, 2020, to November September 3rd, 2021, through questionnaires three baseline moments: (recruitment in HP), M1 (first dispensation in CP) and M2 (3 months after the first dispensation in CP).
- Main outcomes were access to medicines, therapeutic adherence (MMAS-8), healthrelated quality-of-life (EQ-5Dsatisfaction with the service, travel and waiting time, and patients' costs.

FARMA * **2CARE**



268 Participants (patients/caregivers) 219 (81.7%) M0, M1, M2

RESULTS





Patient Reported Outcomes Measures

There was a statistically significant (p<0.05) increase of adherence to therapy between M0 (HP) and M2 (CP), from 81.0% to 90.5%, and no changes in the quality-of-life (EQ-5D-5L) score.

Satisfaction

A significant improvement of satisfaction levels (p<0.05) at M2 (CP) was observed, when compared to M0 (HP) in all evaluated domains (Table 1).

Table 1. Participants' satisfaction (1)						
	n (167)	M0 (Baseline)	M2 (3-month)	p- value		
Domains		Median (P25-P75)				
Overall experience	167	5 (5-5)	5 (5-5)	0.012		
Business hours	163	5 (4-5)	5 (5-5)	< 0.001		
Waiting Timing	167	5 (4-5)	5 (5-5)	<0.001		
Privacy during dispensing	148	5 (4-5)	5 (5-5)	0.004		
With the pharmacist's	167	5 (5-5)	5 (5-5)	0.004		
Professional's availability	148	5 (5-5)	5 (5-5)	0.010		
Clarity of language that pharmacist used	119	5 (5-5)	5 (5-5)	0.011		

- (1) Participants who get the medicine in person in three moments (M0, M1, M2)
- People's overall experience improved from 83.0% at M0 (HP) to 90.1% at M2 (CP).
- Improvements in satisfaction were mainly in the waiting time (32% of participants), opening hours (23%) and privacy conditions (21%).

- Access, Costs, Absenteeism
- ✓ Transferring the dispense from HP to CP (Table 2) significantly reduced travel time per visit (-50min) and the median distance traveled (-36km).
- ✓ Commuting to hospital required the use of public/private motorized transport (99.4%), while half of participants walked/cycled to the CP.
- ✓ Consequently, there were significant savings from travelling: the median cost of €5 per person/visit (HP) was reduced to €0 (CP).

Table 2. Journey, cost and absenteeism							
	n (167)	M0 (Baseline)	M2 (3-month)	p-value			
Journey ⁽¹⁾	Median (P25-P75)						
Travel time (min)	161	60 (35-90)	10 (10-20)	<0.001			
Distance (Km)	107;70 ⁽²⁾	40 (20-65)	4 (2-6)	<0.001			
Cost (euro)	96	5 (2.5-10)	0 (0-1)	<0.001			
	n (%)						
Travel mode (walking/bicycle)	167	1 (0.6)	82 (49.1)	<0.001			
	Median (P25-P75)						
Waiting Timing (min)	167	10 (5-15)	3 (0-5)	<0.001			
	n (%)						
Work absenteeism	79	57 (72.2)	79 (100.0)	<0.001			

- (1) The journey to the pharmacy (hospital or community) refers to the act of leaving home, arriving to the pharmacy, and returning home.
- (2) Different number of answers due to the change in the number of people travelling by car.
- ✓ In addition to travel time reduction, waiting time significantly decreased from 10 minutes (HP) to 3 minutes (CP).
- Consequently, significantly there was absenteeism reduction, representing a gain for individuals and society. Initially more than 25% of the patients reported working-day time lost (mostly part of the day), while with Farma2Care this no longer occurred.

CONCLUSIONS

- Farma2Care program promoted savings for participants and increased medication adherence, suggesting better health outcomes for patients.
- This collaborative initiative promoted better access and convenience for patients and caregivers, with absenteeism reduction and savings from travelling, and a positive impact on people's satisfaction with this proximity service in articulation with the reference hospital.
- As future research, it will be important to evaluate the program, to estimate values to reward the contribution of the CPs and find conditions for policymakers to finance the delivery of this service.

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