Domiciliary Medication Review (ReMeDo): development, reliability and acceptability of a tool for

community pharmacists

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**Abstract** 

Objectives: Polymedication and medication hoarding in patients' homes may increase the risk of drug-related

problems (DRPs). Community pharmacists can prevent DRPs through medication reconciliation and review. This

study aims to 1) develop a tool for community pharmacists to perform domiciliary medication review (ReMeDo) and

2) assess the interrater and test-retest reliability and acceptability of the tool.

Methods: The ReMeDo tool was first developed six years prior to this study to perform medication review during

pharmacist home visits. A literature review was performed to update the content of the existing tool. Ten pharmacy

students participated in the assessment of the interrater and test-retest reliability using three vignettes based on former

ReMeDo patients. Test-retest reliability coefficients were calculated for the entire tool and each segment. Global and

individual interrater reliability coefficients were also computed. Acceptability was assessed through a satisfaction

survey.

Key findings: The ReMeDo tool was structured to guide the collection of information before, during and after the

pharmacist home visit. The global kappa coefficients for interrater and test-retest reliability were 0.70 (95% CI: 0.67;

0.73) and 0.71 (95% CI: 0.68; 0.74), respectively. The test-retest reliability coefficients for each segment and the

interrater reliability coefficients for participants were higher than 0.60 (except for one participant), demonstrating a

moderate to substantial level of agreement. The tool was deemed acceptable by participants.

Conclusion: The ReMeDo tool proved to be reliable and acceptable for use by community pharmacists to perform

medication review in patients' homes.

Keywords: medication review, medication reconciliation, home visits, community pharmacy.

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## Introduction

Elderly patients are commonly multimorbid, polymedicated and followed-up simultaneously by several healthcare professionals[1-4]. Polymedication is often connected to duplicated treatments, inappropriate medication storage and hoarding in patients' homes [4], which increase the risk of drug-related problems (DRPs)[4-7]. DRPs (defined as events or circumstances involving drug therapy that actually or potentially interfere with desired health outcomes [8]) can be triggered by patients' intentional or unintentional behaviours [8-11]. For instance, confusion about which drug or dose to take, or storage errors [8]. These behaviours, frequent in primary care[12; 13], are associated with poorer health outcomes leading to hospitalization[7; 9; 13]. Since such behaviours are not directly recognisable in community pharmacies, they might be more easily identifiable in patients' homes[13]. Therefore, effective strategies are needed to help patients manage their medications at home[11; 14].

Among such strategies, medication reconciliation stands out as the formal process through which healthcare professionals partner with patients to ensure the transfer of medication information at interfaces of care[15]. Pharmacy services involving medication reconciliation and review facilitate the assessment of patients' actual use and understanding of their medications and communicating the findings from these assessments to other healthcare professionals[16; 17]. For instance, the Medicines Use Review (MUR) in the United Kingdom aims to improve patient knowledge and use of drugs [17; 18]. Furthermore, the recognition of the pharmacist role has resulted in the expansion of pharmacy services into outpatient settings, including patients' homes. Results from randomized controlled trials have shown that pharmacist home visit interventions can improve patient adherence and knowledge[16]. In the Australian Home Medicines Review (HMR) programme, pharmacists provide home-based medication review services for community-based patients at risk of DRPs through a collaborative process involving physicians and pharmacists [19; 20].

In Switzerland, basic cognitive services offered in community pharmacies have been legally acknowledged since 2001 [21]. Among them, the so-called "Polymedication Check" (PMC), based on the MUR, was offered in community pharmacies for patients on  $\geq 4$  prescribed drugs taken over  $\geq 3$  months. Initially proposed as the means to address adherence issues, the PMC was mainly composed of a patient-pharmacist interview focused on the review of medication use. Nevertheless, a significant improvement in medication adherence was not demonstrated by the PMC,

and its reimbursement was withdrawn in June 2019[22]. Moreover, the PMC did not target risk factors predisposing patients to DRPs and existing in patients' homes.

In an effort to optimize DRP management in the elderly ambulatory population, the Community Pharmacy of the Center for Primary Care and Public Health in Lausanne (Unisanté) developed ReMeDo, a domiciliary medication review service based on the principles of the PMC to "create the most accurate list possible of all medications a patient is taking[23; 24] "with the aim of optimizing medicines use and improving health outcomes" [25]. ReMeDo includes a pharmacist visit to the patient's home to reconcile the medications documented in the patient's record in the community pharmacy and those stored at home. For a structured evaluation of a patient's medicines, the development of a reliable tool allowing a systematic review of the medications stored at patients' home is crucial to identify and manage DRPs.

This study aimed to 1) develop a tool for domiciliary medication review (ReMeDo, per the acronym in French) intended for community pharmacists and 2) to assess the interrater and test-retest reliability and acceptability of the tool.

## Methods

The local Ethics Committee -Commission cantonale d'éthique de la recherche sur l'être humain (CER-VD)- deemed this project to be outside the application of the Swiss law on human research, given that this project was focused on the professional opinions of pharmacists regarding the use of the tool and no patients were involved

Update of the ReMeDo tool

As conceived by the Unisanté pharmacy, ReMeDo is a medication review service conducted in the patient's home. Similar to the PMC, ReMeDo comprises a patient-pharmacist interview focused on the review of medication use by patients on  $\geq 4$  prescribed drugs taken over  $\geq 3$  months. Undertaking, the ReMeDo interview in patients' homes,

facilitates the reconciliation of patient's prescribed medications, as registered in the community pharmacy record, with the information collected from the patient about medications kept at home and their administration; thus, the most accurate medication list is completed. ReMeDo does not include a review of the appropriateness of each medication prescribed to identify what is missing from the current therapy [26], nor review inappropriate dosage regimen or dosage form of prescribed medications, as this is already verified through the "validation of prescription" service[27]. Instead, ReMeDo focuses on technical DRPs, which represent problems related to a prescription and/or medication use but not those related to knowledge of the pharmacological or disease state [28].

The ReMeDo tool was developed and first piloted in 2010 with 21 patients. Throughout the pilot phase, the tool was designed considering the context (the patient's home), to collect information at different points and examine places and current conditions of medications storage, which could also influence their use and cause DRPs. The original structure of the ReMeDo tool was divided into three main sections according to the timing of the intervention: before, during and after the visit of the pharmacist. The information to be collected originally included that collected *before* the visit, namely, the patient's identification data, prescribed medications (as documented in the pharmacy record), the prescriber's name, the existence of hepatic and/or renal impairment and current conditions for medication management (i.e., caregiver assistance); that collected *during* the visit, namely, the patient's knowledge and use of each medication kept at home as examined by the pharmacist, information about medication status (prescribed or not) and storage conditions (i.e., location, container conditions and expiration date); and that collected *after* the visit, namely, an appraisal of the collected information about pharmacotherapy (including over-the-counter (OTC) medications observed at home) to identify DRPs.

To update this content, a search of the PubMed database was conducted using a combination of the MeSH terms "home care services", "pharmaceutical services", "pharmacist", "medication reconciliation", and "medication therapy management", as well as the word "home". No filter was applied, and articles written in English, French or German were considered. Only articles targeting the following were selected: 1) interventions performed in patients' homes by community pharmacists and 2) medication reconciliation services. All tools referred to in the papers were reviewed. If tools were not available online authors were contacted to obtain copies. Finally, the existing ReMeDo tool was updated to include additional fields identified through the review.

## Interrater and test-retest reliability

Since the ReMeDo tool is to be used by pharmacists with different levels of experience, it was deemed necessary to test the tool's reliability with non-specialized participants. Therefore, volunteer participants were recruited from the students of the Master of Pharmacy Program at the University of Geneva (Switzerland): the first ten students who showed interest in participating were selected. The 4-hour training consisted of explaining the ReMeDo service and how to use the updated tool, followed by a workshop where participants could perform a medication reconciliation based on three clinical vignettes informed by the profiles of former ReMeDo patients. The vignettes represented three different patients and included their complete list of medications, pictures of the medication containers and information on the medication storage locations in the patient's homes. Each participant received a printed version of the training session and an instruction manual for the tool. Thereafter, participants were asked to reconcile the medications and document the DRP detected during the review (already predefined in the vignettes) using the updated tool. No communication between participants was possible.

A global interrater reliability coefficient was determined for the entire tool. In addition, the tool was separated into four segments according to: "patient" (steps 1 to 4); "medication use process" (steps 5 to 14); "medication reconciliation and review" (step 15); and "DRP synthesis" (steps 16 to 18). A kappa interrater reliability coefficient was computed for each segment. Interrater kappa coefficients greater than 0.40, representing a fair level of agreement, were deemed reliable[29].

Test-retest reliability was assessed two weeks after the interrater reliability evaluation using two of the three vignettes. Global and per rater (individual) kappa coefficients were calculated. Test-retest kappa coefficients greater than 0.60, indicating a fair level of agreement, were considered reliable [30].

The kappa coefficients for the interrater and test-retest reliability were calculated using Stata IC 14.0® software.

## Acceptability

To evaluate the acceptability of the tool, participants were asked to complete a satisfaction survey by responding to a 9-item questionnaire and one open question, adapted from Maes et al[31]. For eight of the nine questions, the response choices were provided on a 4-point Likert scale and included *strongly disagree*, *somewhat disagree*, *somewhat agree*, and *strongly agree*). For one question ("To document this case using the tool, I had to read the instruction manual"), the response choices were changed to *no*, *not necessary*; *yes*, *once*; *yes*, *two or three times*; and *yes*, *several times*. In the open question ("How should the tool be improved for exhaustive DRP identification?"), participants were invited to suggest potential improvements.

## Sample Size

The existing tools for documenting DRPs in community pharmacies have been evaluated previously with 10 to 21 participants. Their interrater reliability kappa coefficients vary between 0.53 and 0.61[32-34] which is considered a moderate level of agreement[30]. Assuming that the ReMeDo tool has similar reliability (kappa correlation of 0.6), a sample of 10 participants was considered sufficient to obtain a 95% CI around a reliability coefficient of 0.40–0.80.

## Results

## Update of the ReMeDo tool

Among the 1,245 articles originally identified, 33 reported on studies of medication management at home. Among these studies, 18 did not feature a tool, four were written by authors who could not be contacted, and one included a tool unrelated to the subject. Finally, 10 of the 33 studies featured the use of tools that were deemed comparable to the ReMeDo tool[35-44].

The content of the tool sections was updated and reorganized based on the 10 available tools found in the literature search. The original division of the ReMeDo tool into three sections, i.e., before, during and after the pharmacist home visit, was maintained to facilitate its chronological completion. In general, the main changes throughout the tool served to guide the synthesis of the information collected from different sources (physicians, the patient himself or herself and relatives) at the end of each section. In addition, elements regarding patient dexterity, sight problems and the use of assistance for taking medications (e.g., the use of a pill organizer) were integrated throughout the tool. More specifically, a list of known patient health problems was added to the *before* section as a means to explain medication indications; the *during* section was reorganized to allow the documentation of further details of the storage conditions in the patient's home, notably the location of medications and their containers; and a short assessment and sorting of OTC medication was added to the *after* section. The final version of the tool is shown in Table 1.

## Interrater and test-retest reliability

Ten participants were recruited, 50% (n=5) were men and the median age (range) was 25 (23-27) years. The three vignettes were analysed by all participants. The global interrater reliability coefficient was 0.70 (95% confidence interval (CI): 0.67; 0.73). The interrater reliability coefficients for the segments of the tool were 0.87 (95% CI: 0.86; 0.89) for the "patient" segment; 0.68 (95% CI: 0.66; 0.68) for the "medication use process" segment; 0.52 (95% CI: 0.47; 0.55) for the "medication review" segment, and 0.60 (95% CI: 0.56; 0.68) for the "DRP synthesis" segment.

The global test-retest reliability coefficient was 0.71 (95% CI: 0.68; 0.74). The test-retest reliability coefficients for each participant are presented in Table 2.

#### Acceptability

Overall, participants were satisfied with the tool. They perceived the ReMeDo tool to be necessary to optimize medication use and to identify medication management problems at home that would possibly lead to DRPs. The tool and its instruction manual were deemed easy to use. For potential improvements of the tool, participants suggested adding a space for "remarks" or "notes" to items in the "medication use process" and "medication review" segments

to document the collected information in further detail. Five participants consulted the manual more than once. In general, participants did not suggest any revision of the manual was needed. The results of the survey are presented in Figure 1.

#### Discussion

The ReMeDo tool constitutes a novel medication review instrument structured around the community pharmacist home visit, designed to allow pharmacists to collect the relevant information at the appropriate moments before, during and after the visit. Based on a literature review, the content of the tool was updated to take in count current advancements in medication reconciliation and review. The tool showed high interrater and test-retest global reliability. Moreover, the tool was deemed acceptable for use for medication reconciliation at home by participants.

Even if new research has emerged regarding medication reconciliation and how it may be carried out in Swiss community pharmacies [45; 46], only a few studies focused on medication reconciliation at home [38-43]. To our knowledge, this is the first study to develop a reliable tool to be used specifically for a medication review at the patient's home allowing the documentation of DRPs. However, some limitations need to be acknowledged. Only one database was used for the literature review and, consequently, may have missed relevant papers. Despite this limitation, significant elements affecting medication management at home were identified and integrated into the ReMeDo tool [1: 43: 47]. Additionally, the sample size can be considered relatively small (10 participants). Reliability coefficients are dependent on the number of possible ratings, the level of agreement among raters and the difference among coefficients for hypothesis testing[48]; hence, it is likely that a smaller sample size would lead to higher variability in the coefficients. Therefore, significant variability in the kappa coefficients could have been expected with this sample size. However, as shown by the kappa coefficients above 0.40, a moderate level of agreement among raters was confirmed. So, the ReMeDo tool can be considered reliable for use in clinical practice [30; 49]. It is probable that the variability observed in the reliability coefficients would decrease with a larger sample [49]. Furthermore, participants were recruited on a voluntary basis; consequently, selection bias cannot be completely excluded. It is possible that recruiting more experienced participants would have yielded different reliability results and perspectives about how to improve the tool. Nonetheless, participants' ability to complete the review shows the tool is usable even for inexperienced pharmacists. It is therefore expected that any community pharmacist would be able to use the ReMeDo tool in his or her current practice. Finally, while participants did not deem necessary to revise the manual to improve its comprehensibility, they did not explain if the reasons motivating them to consult it more than once were related to the training session, the manual itself, or both, being considered as incomplete or unclear. The opinion of the ReMeDo tool users about the manual and training session, will be further evaluated in future studies of the ReMeDo service.

The ReMeDo tool is particularly advantageous for pharmacists to document DRPs detected after the medication review at home. Moreover, adding new elements to the "DRP synthesis" section may help pharmacists to consider patients' difficulties and better address or even prevent DRPs. For instance, the use of pill organizers [50], patient dexterity and sight problems[47; 51] may have an impact on medication management. The tool had interrater reliability coefficients above 0.60 for the "medication review" and "DRP synthesis" segments, indicating moderate agreement. A substantial and an almost perfect level of agreement were observed for the "medication use process" and "patient" segments, respectively. This difference among the segments may be due to the first two involving pharmacists' judgement, while the others serve mostly for data collection purposes. Additionally, all but one of the test-retest reliability coefficients were greater than 0.60, indicating a moderate level of agreement. It is not possible to establish direct comparisons with other identified tools, as their reliability has not been assessed[35-44]. To our knowledge, ReMeDo is the first tool used for medication review at home that has been shown reliable.

The ReMeDo tool might have some limitations. First, it currently exists only in a paper version. The development of an electronic version could now be considered. Indeed, the use of technology to aid in pharmacists' home visits has been previously highlighted[16]. Stable connectivity, notably from patients' homes to the internal pharmacy system, is essential to aid a pharmacist in better assessing a patient's medication regimen[52], but connectivity is still a poorly discussed aspect regarding the use of technology to develop pharmacy services delivered at home[16]. The ReMeDo tool was designed to collect all the necessary information without pharmacists needing to communicate with the pharmacy during the home visit. Therefore, an eventual electronic version of the ReMeDo tool would remain adaptable regardless of the availability of an internet connection.

Pharmacist home visits should be beneficial to identify risk factors at home that predispose patients to DRPs. The

number of medications found in a patient's home is generally higher than the number of prescribed medications[4].

Medications kept at home often include non-prescribed medications such as OTC medication taken regularly,

prescribed medications to be taken as needed or medications previously prescribed but not currently taken[4; 42].

Patients who take a high number of medications and who declare to have several storage locations for medications,

present poor medication adherence [42], a higher number of adverse drug events and greater severity of illness [4].

Currently, there is no remunerated pharmacy service offered in Swiss community pharmacies for medication review.

Demonstrating the reliability and acceptability of the ReMeDo tool represents a first step in the development of such

services. Nevertheless, the impact of the ReMeDo service in decreasing the number of DRPs remains to be determined.

Conclusion

ReMeDo is the first tool developed to facilitate systematic data collection for performing a medication review in the

patient's home, and has shown to be reliable and acceptable for use in the community pharmacy setting, even by

inexperienced pharmacists.

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Domiciliary medica	ation rev	iew - T	he Re	eMeDo	tool		
Date of the visit: / /							
Start time of the visit: hmin							
Pharmacist full name:							
Information to be collected <u>before</u> the visit:							
information to be conected <u>before</u> the visit.							
1. Patient profile							
Surname:	Name:	_					_
Patient identification number :							
Date of birth:/	Sex:	Male	П		Fen	nale l	П
	SCA.	ividic	_		1 011	iuic i	_
First language:							
Address: Telephone:							
E-mail:							
Current professional activity:							
2. Patient health problems (this information sho	uld be co	llected	throi	ıah th	a traatii	na nhs	rsician – Do not ask for this
information from the patient)	uiu be co	necteu	tiii ot	ign tii	e ii caiii	ng pny	sician – Do not ask for this
• /					YES	NO	UNKNOWN <sup>1</sup>
Hepatic impairment (Score <sup>2</sup> :)							
Renal impairment (Cl <sup>3</sup> :)							
Allergies to medications  (If yes, causative medications:  Type of reaction:  Cognitive impairment  Eyesight/Vision problems				<u>,</u>			
Dexterity problems							
<ul> <li><sup>1</sup> Unknown (undetermined or non-existent in</li> <li><sup>2</sup> Child-Pugh score (class A, B or C)</li> <li><sup>3</sup> Creatinine clearance (ml/min)</li> </ul>	ıformation	n)					

3. Current treatme	ent (prescribed)										
Information received from on (date)://	the treating physician	(full name):							-		
Medication plan: Is the	re any differences be		_	d the p	harma	cy pat	tient's	histor	y? If yes, perform a	Page 1	
medication reconciliation	International	Dosage form			]	Dosago [mg]	e				
Commercial name of medication	non-proprietary name (INN)	(indicate if modified- release)	Strength [mg]	m <sup>1</sup>	n <sup>2</sup>	e <sup>3</sup>	b <sup>4</sup>	r <sup>5</sup>	Start date of treatment	Expected end date of treatment	

<sup>1</sup> morning; <sup>2</sup> noon; <sup>3</sup> evening; <sup>4</sup> bedtime; <sup>5</sup> as needed

Inform	ation to be collected during the visit:				
4.	The patient  Lives alone Spends time around a partner, family member or other people (contact > once a week) Is occasionally visited by children (12 years old or less)? Uses home care services  If yes  Home care services treatment plan:  Absent (go to step 5)  Unknown  Present, electronic or paper form (Please attach a copy)  If present: Available for the patient at home:  YES NO UNKNOWN  □ □ □ □ □		YES	NO	UNKNOWN  □ □ □ □
5.	The patient manages his or her treatment on his or her own The patient manages his or her treatment with a self-prepared weekly pillbox Assistance is provided by home care services Assistance is provided by a community pharmacy (i.e., pillbox) The patient uses some kind of reminder to take his or her medications (e.g., alarm clock or pillbox) If yes, which one? Patient uses a device for administering medications (e.g., inhaler or spacer; more than one response is possible)	yes	: NO	UNKNOWN	NOT APPLICABLE
- Other re	A carer, family member, or other persons assists the patient with:    Medication supply   Medication management/storage   Adherence assistance (pill organizer preparation, calls, reminders, etc.   Medication administration (taking tablets, administering injections, ac.   Other:   Unknown   Unknown	dministe		n inhaler, etc.)	

6. Medication supply (more than one response is possible):	YES	NO	UNKNOWN
The patient picks up his or her own medication Somebody else (i.e., a partner, family member or home care services) picks up the medication for the patient			
It depends, many people pick up the medications for the patient If yes, who? (Partner, family member, neighbour, etc.):			
A healthcare professional supplies the medications If yes who? (i.e., physician, pharmacy, or home care services):			
People involved in the medication supply for the patient explicitly ask for a dosage label not to be placed on the medications.  If yes, why?:			
The patient wants the dosage regimen to be specified on the medications.			
7. Patient follow-up: Physician(s) consulted during the last 12 months (full name + address + special UNKNOWN			
7. Patient follow-up: Physician(s) consulted during the last 12 months (full name + address + special			
7. Patient follow-up: Physician(s) consulted during the last 12 months (full name + address + special			
7. Patient follow-up: Physician(s) consulted during the last 12 months (full name + address + special		NO □	
7. Patient follow-up: Physician(s) consulted during the last 12 months (full name + address + special UNKNOWN	ity) YES	NO	UNK <u>N</u> OW
7. Patient follow-up: Physician(s) consulted during the last 12 months (full name + address + special UNKNOWN   Medications are obtained/provided in the same place  If yes, please specify contact details (i.e., full name, address, phone number):	YES	NO	UNK <u>N</u> OW
7. Patient follow-up: Physician(s) consulted during the last 12 months (full name + address + special UNKNOWN   Medications are obtained/provided in the same place	YES	NO	UNKNOW

Medication storage:					
			YES	NO	UNKNOWN
8. Are there medication recommendations?					
9. Is there a main storaş					
10. Room(s) where medi	cations are stored? (Multiple	e responses are possible)			
☐ Dining room	☐ Living room	□ Office			
☐ Bedroom	☐ Toilet	☐ Bathroom			
□ Hall	☐ Entryway	☐ Kitchen			
☐ Other:					
11. Where is the specific	storage location for medicat	ions?			
☐ Pharmacy cabinet	☐ Drawer/cupboard	□ Fridge □ Ta	able/dress	er	
			YES	NO	UNKNOWN
If children are present, ev	ven occasionally, are the medic	cations stored out of their reach?			
Comment					
		r medications? (The medications are	_	_	_
clearly separated from o	•				
Comment					
	as out of the patient's reach?	natient's reach and why			
ii yes, pieuse expiain wiii	on medications are out of the	patient 3 reach and why.			

13. Medication dispensing mode (Ple	ease select all the applicable answers)
☐ Weekly pillbox → (Storage format of medications)	☐ Blister packaging ☐ Unprotected tablets ☐ Blister packaging AND unprotected tablets
	Was there an error in the filling of the patient's pillbox? YES □ NO □ UNKNOWN □ If yes, for which medication?
☐ Original packaging	
☐ Outside the original packaging	YES □ NO □  Transferred to: □ A different container □ Another medication's container □ A container from a different batch of the same medication Please specify which medications were transferred:
□ Other:	
□ NO (go to step 15) □ YES (which ones?):  Done previously:  Potential problem:	YES
15. Are someone else's medications	stored with those of the patient?
<ul> <li>NO (go to step 16)</li> <li>UNKNOWN (go to step 16)</li> <li>YES →</li> </ul>	a. Are different people's medications clearly differentiated from those of the patient?  (Labels, different storage locations, etc.)  YES □ NO □ UNKNOWN □  b. Are the names of the people written on the medications (labels)?  YES □ NO □ UNKNOWN □  If you answered NO to one of the previous questions, please specify the drug-related problem (DRP) identified:

# 16. Review of ALL medication present at home (including pillboxes, over-the-counter medicine, non-prescribed medication or alternative medicine, as-needed medication, etc.). Tick all applicable DRPs

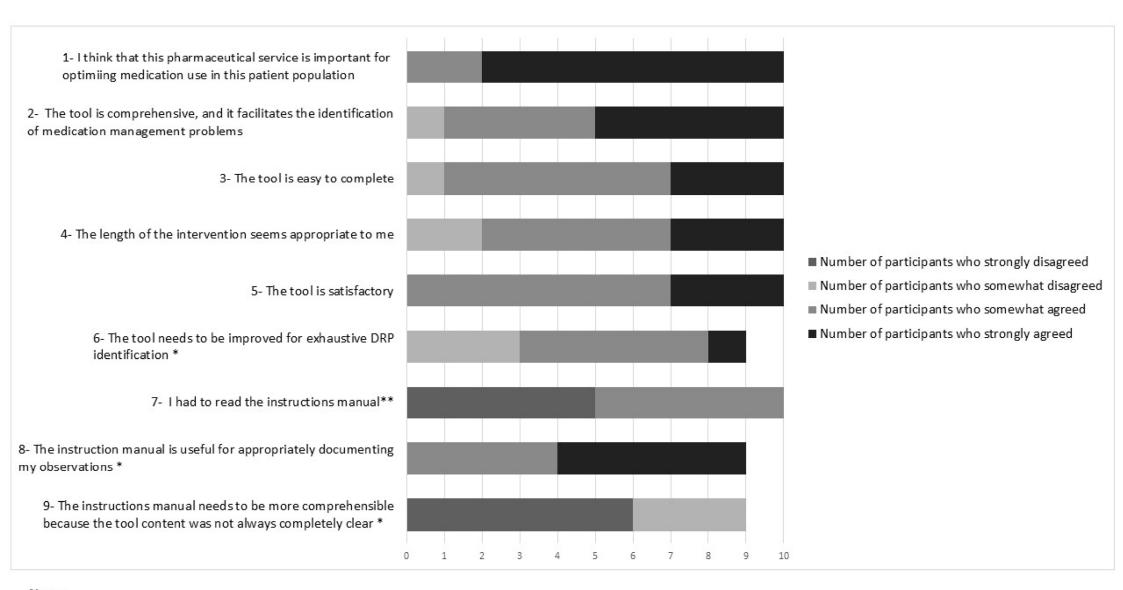
Commercial	Dosage form											
name - International non- proprietary name (INN)		Expired*	Dosing label lacking/inexistent	Indicated dosing on the label that is different from that prescribed	Incorrect strength	Double medication**	Adherence problem***	Accumulation****	Inappropriate storage	No DRP	Other****	Notes/comments
									☐ Light ☐ Humidity ☐Temperature ☐ Children			
									☐ Light ☐ Humidity ☐Temperature ☐ Children			
									☐ Light ☐ Humidity ☐Temperature ☐ Children			
									☐ Light ☐ Humidity ☐Temperature ☐ Children			
									☐ Light ☐ Humidity ☐Temperature ☐ Children			
									☐ Light ☐ Humidity ☐Temperature ☐ Children			
									☐ Light ☐ Humidity ☐Temperature ☐ Children			
									☐ Light ☐ Humidity ☐Temperature ☐ Children			

Dilumidity   Difference   Dilumidity   Dif	
Expiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  Same generic name and same dose but different dosage form or same therapeutic class without apparent cause  **Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently-edication, or empty packages without any reserve left  ***Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  If NO, what is missing:    Children   Children   Children	
Expiration date or "use by" period has already passed or is undetermined; c.g., eye drops without an opening date indicated    Children	
Expiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  Same generic name and same dose but different dosage from or same therapeutic class without apparent cause **Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently-cideation, or compty packages without any reserve left  **Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  If NO, what is missing:	
Expiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  Same generic name and same dose but different dosage form or same therapeutic class without apparent cause  **Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently-eliest elements. Several boxes of similar medications are present at home (no apparent rational use)  **All prescribed medication present in the patient's home? YES   NO    If NO, what is missing:	
Expiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  Same generic name and same dose but different dosage form or same therepoutic class without apparent cause  **Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently-edication, or empty packages without any reserve left  **Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently-edication. Or empty packages without any reserve left  **Accumulation:*Several boxes of similar medications are present at home (no apparent rational use)  ***Please specify  **Accumulation:*Several boxes of similar medications are present in the patient's home? YES   NO    If NO, what is missing:	
Expiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  Same generic name and same dose but different dosage form or same therapeutic class without apparent cause  *Adherence: The time clapsed between the delivery dates and today is too long or short, etc.; problem identified through package simbul amy package without any reserve left  **Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  **If NO, what is missing:	
Expiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  Same generic name and same dose but different dosage form or same therapeutic class without apparent cause  *Adherence: The time clapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently dictation, or empty packages without any reserve left  **Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  If NO, what is missing:	
xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  Same generic name and same dose but different dosage form or same therapeutic class without apparent cause Adherence: The time clapsed between the delivery dates and today is too long or short, etc.; problem identified through package without any reserve left  *Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  *If NO, what is missing:	
all prescribed medication present in the patient's home? YES   NO    If NO, what is missing:	
Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently dication, or empty packages without any reserve left  * Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  If NO, what is missing:    Children   Children   Children	
xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  xpiration date or "use by" period has already passed or is und	
Expiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated  Same generic name and same dose but different dosage form or same therapeutic class without any parent cause  'Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently dictation, or empty packages without any reserve left  **Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  **Please specify  If NO, what is missing:	
xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated Same generic name and same dose but different dosage form or same therapeutic class without apparent cause  Adherence: The time clapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently dication, or empty packages without any reserve left  *Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  **Please specify  All prescribed medication present in the patient's home? YES   NO   If NO, what is missing:    Temperature   Children   Humidity   Humidit	
xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated Same generic name and same dose but different dosage form or same therapeutic class without apparent cause Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently dication; or empty packages without any reserve left  * Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  *** Please specify  **  **If NO, what is missing:	
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xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated Same generic name and same dose but different dosage form or same therapeutic class without apparent cause  Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently dication, or empty packages without any reserve left  *Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  **Please specify  all prescribed medication present in the patient's home? YES   NO    If NO, what is missing:	
Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently of teating the patient's home? YES   NO    If NO, what is missing:	
xpiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated Same generic name and same dose but different dosage form or same therapeutic class without apparent cause Adherence: The time elapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently dication, or empty packages without any reserve left  * Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  ** Please specify  **  **  **  **  **  **  **  **  **	
Expiration date or "use by" period has already passed or is undetermined; e.g., eye drops without an opening date indicated Same generic name and same dose but different dosage form or same therapeutic class without apparent cause  * Adherence: The time clapsed between the delivery dates and today is too long or short, etc.; problem identified through packaging quantity, e.g., a significant amount of unopened boxes, few or no boxes of a frequently dication, or empty packages without any reserve left  ** Accumulation: Several boxes of similar medications are present at home (no apparent rational use)  **** Please specify  **  **  **  **  **  **  **  **  **	
If NO, what is missing:	
If NO, what is missing:	
If NO, what is missing:	
sit ended at: h min	
sit ended at: h min	
sit ended at: n min	

Inforr	nation	to be coll	ected <u>aft</u>	er the vis	sit:					
				_						
17.	DR	Ps associa	ited with	all the p	atient's	medicati	ion at ho	me		
□ Inaj	ppropri	ate storage	e (storage	conditio	ns, medio	cations k	ept in dit	ferent pl	aces, etc.)	
□ Ме	dicatio	ns provide	d by/obta	ined at d	ifferent p	laces				
		nfusion (e	-						nother per	rson, risk of confusion with other
		nformation						nent dura	tion, etc.)	given to the patient at different places
□ No	DRP									
□ Oth	er (ple	ase specify	y):							
18.	Ove	r-the-cou	nter (OT	C) medio	cations fo	ound at 1	patient's	s home		
	□ No	o OTC me	dications	found		Eye drop	ps			☐ Laxatives
	□ Oı	ral analges	sics			Allergy	medicati	on		☐ Cough relief medication
	□То	opic analg	esics			Antacids	S			☐ Multivitamins and food supplementation
	☐ Ot topic	ther treatmally	nents appl	ied		Natural loducts/ho	health omeopath	ny		supprementation
19.	Glol	bal impre	ssion scal	le on me	dication	manage	ment by	the patio	ent at hoi	me
	On a	a scale froi	m 1 to 10	(circle th	ie approp	riate nur	mber)			
	1	2	3	4	5	6	7	8	9	10
	1 = 1	medicatior	n manage	ment is ca	atastroph	ic				
	10 =	medication	on manag	ement is	perfect					

 Table 2. Individual test-retest reliability coefficients.

Participant Identification Number (ID)	ID 1	ID 2	ID 3	ID 4	ID 5	ID 6	ID 7	ID 8	ID 9	ID 10
Kappa index	0.67	0.87	0.47	0.70	0.60	0.88	0.57	0.70	0.71	0.85
(95% CI)	(0.64;	(0.84;	(0.38;	(0.60;	(0.54,	(0.82;	(0.47;	(0.63;	(0.65;	(0.84;
	0.80)	0.89)	0.50)	0.78)	0.62)	0.95)	0.63)	0.75)	0.75)	0.87)



### Notes:

- \*One participant did not answer question 6, and another participant did not answer questions 8 and 9.
- \*\* Five participants answered "no, not necessary" and five answered "yes, two or three times".