## Additional File 3: Expanded version of the barriers/facilitators identified under each of 14 TDF domains

## Determinants (facilitators and barriers) of pharmacists' medication dispensing and counselling behaviour

TDF Domain	Facilitators	Barriers	Illustrative quotes
Knowledge	Knowledge of presence of VI	Barriers to knowing that	"Umm I mean this is the most important thing, to know that he has visual
	in a patient (patient	patient has VI (female	impairment." (CP06)
	behaviour, medical	patients covering face,	
	chart/prescription,	patients not disclosing their	"No, no one mentions something like that. I don't think that he even likes disclosing
	appearance, caregiver	VI, pharmacist not asking	it to someone. [] So I feel they don't tell out of embarrassment, so I avoid stating
	presence, other HCPs,	about VI to avoid	it. I mean I deal with him based on what I see in front of me and that is itor what I
	diagnosis/comorbidities,	embarrassing patients, VI	felt from him." (CP04)
	disability card)	patients not picking up	
		medicines themselves, no	"It would be written in the notes, but, [] nobody will access the doctor's notes and
	Knowledge of level of VI	alerts on computer system)	read it to know if this information is present or not. And it is not like an allergy, it is not included under allergies or the complications present in thein the head [of the
	Knowledge of	Lack of guidelines, no	page]." (HP05)
	challenges/risks to patients	knowledge of guidelines	
			"Yes, it [level of impairment] is very important so because it will change the kind
	Knowledge of home support	Lack of access to patient	of patient counselling." (HP08)
	available to patient/patient	data	
	situation		"I have to know the challenges they havethen I can [] decide" (HP06)
		Lack of education about	
	Clinical knowledge,	the issue in pharmacy	"My expclinical experience, ok, as clinical pharmacistthis isok, understanding
	knowledge of medications	colleges	the diseases, understanding, ok, the need of my colleaguesumm and also reading
	and patient history		the casesreading the case of the patient" (HP06)
	Knowledge of guidelines		"I mean, it would be easier for me if there were a guideline." (HP05)
	Knowledge of patient preferences/needs		
	Experience		

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TDF Domain	Facilitators	Barriers	Illustrative quotes
Skills	Patience, tolerance, gaining patient trust and quickwittedness	Lack of training	"I think communication is the most important thing. That you should not be, like, annoyed with the person in front of you, or appreciate his condition. So, you should be a little patient." (CPO4)
	Communication skills (with patients/physicians)  Interpersonal skills		"Yeah, the most important thing is that my counselling is, like, slow and clear to the patient. And if he does not understand, that is fine, I'd repeat things for him again, even if I took longer with him, I don't have a problem." (HP13)
	Counselling skills (e.g. listening, giving more time, simplifying language, describing shapes of tablets, have patient touch medicines)  Problem-solving skills  Future courses/training to improve skills		"If I were [] trained or had read a more professional guideline for example um and had gotten a background about how to deal with this patient in a better way. Because the ways I haveare like wayslike they deliver the point but they are not professional to the point thatyeah." (HPO3)  "if you are in an institution umm where you probably see many patients, [] then in this case umm, ok,there should be training, there should be using all tools that mightthat might help. But forlet's say at [name of hospital where pharmacist is practicing] where we don't really deal with such patients [] So we deal with it case by case. That's why [] we never even thought about, to have anyany specific training for that." (HPO6)
SPRI	Experience in practice  Professional responsibility/duty for dispensing/counselling and all activities involved  Moral/religious beliefs in relation to role  Maintaining pharmacy profession reputation	Senior management not understanding pharmacist role (hospital pharmacy)  Interprofessional relationship with physicians	"It is my responsibility that every patient, whether he has a special need or not, does not leave the pharmacy unless he has learned how to use the medication in a correct and effective way." (HP11)  "God gave you this task to help those people, so you need to be up to this confidence that God has entrusted in you." (CP02)  "But you get worried about the profession as a whole, and about the image of the profession too. And we want this to never shake. People's confidence in the pharmacy, we don't want that to be shaken no matter what." (HP16)

TDF Domain	Facilitators	Barriers	Illustrative quotes
SPRI (cont'd)	Roles of others (e.g. technicians for preparing medicines, physicians for consultation)  Beliefs that pharmacists are the most suited to counsel patients	Professional boundaries between pharmacists and technicians (beliefs that when technicians provide counselling, quality is compromised)  Lack of understanding of pharmacist's role by patients/caregivers  Pharmacists are not currently required to provide special treatment for VI patients	"I would go back and talk to thethe resident, the intern, anyonewhoever mad the prescription, I'd go back and talk to him to be able to change or alter the dose to completely change the medication [] because I am with them in the team. So when I tell him "Well, because there is an alternative", he'd choose thathe take my word for it, I mean" (HP05)  "One of the main problems is the lack of understanding of the higher administration or other entities of the pharmacist's roles [] I mean, they do not realise the importance of your role as a pharmacist." (HP04)  "So, we canalert him to the medication error present in the prescription. There is a sort of reluctance to accept this, "I am a physician, and you are a pharmacist!" I mean he does not realise what the pharmacist [role] is. He does not realise the medical information and disease are his speciality and medicine-related information is the pharmacist's speciality. And this happens alooooot [sic], at a very high rate! (HP04)  "I don't want to speak ill of them [technicians], but they don't have enoug information or enough skills to deliver the medicine-related information to the patient." (HP04)  "[] He [patient] insists on using it or tells me "I want it, none of your business!" of that the physician also tells me "Nope, dispense what I have written"that is something considered that is their wishes. In that case, I cannotI mean
Beliefs about	Patient understanding,	Not having enough	wouldn't and in spite of that I'll continue to offer advice". (CP02)  "So, he [patient] explains everything back to me while I'm there. So, some would
capabilities	patient satisfaction	information about medication	explainwhen I see him hesitating or something, no, here there was a problem with my work. Like I'd be confident, and it makes my day, the one who races me to say
	Patient prior use of		the information" (HP16)
	medication	Unclear prescription	"Look I would never be confident because he connect see Dist I would be re-
	Caregiver/family caring for patient		"Look, I would never be confident, because he cannot see. But, I would be more reassured if one of his family was around, if he audio recorded me, if he recorded video" (HP05)

TDF Domain	Facilitators	Barriers	Illustrative quotes
Beliefs about capabilities ( <i>cont'd</i> )	Having the right resources/tools  Having the necessary	Instances requiring a referral to a physician, complicated cases	"I feel confident when the patient himself has dealt with the drug more than once So I dispense it and be rest assured that he will not misuse it, especially if I repeat to him "take it in the morning"" (HP09)
	knowledge/training	Caregiver (caregiver absent or may misunderstand	"[] The more the knowledge you have, I thinkand you having received training in a professional manner, I think, the more eager you'd be to deliver what you've go
	Sufficient and clear information about the	information)	to the person in front of you. I think thisI think this is the most influencing factor (CP02)
	patient's case	Feeling of increased	
		responsibility	"If it is something that is outside our scope as pharmacists, I mean. For example, he is complaining of certain symptoms umm and these require a specialist" (CPO1)
		No previous experience	
		with VI patients	"If that other person that is with them is likesuppose he was driver of a differer nationality, umm cannot understand Arabic well or his English was weak, surely h
		Patient being completely blind or having multiple	would not understand the information correctly!" (CP03)
		disabilities	"I feel like what I've been entrusted with has increased. You get it? Thatit honests is a responsibility. I mean you'd wish that these people, [] like to have the supervisor to deal with them, maybe especially the blind, or something like that Because I don't know, like sometimes you'd wish to relieve yourself of the responsibility. You get it? Sometimes, I mean you are just afraid." (HPO3)
Optimism	Availability of resources (e.g. technologies and use of	Long standing issue	"It can [be] improved, but you needyou need manpower and you need budget (laughs) I mean ideas remain ideas unless I mean you have actions." (HP10)
	Braille)	Cost	
	Education/training	Workforce shortage	"Umm when theumm he [patient] comes out of the physician's [clinic] with prescription that is written wellclear font. When the pharmacist also has enoug information about how to deal with the visually impaired. Umm when the patien
	Complete circle of care	Pharmacist having other	himself knows how to take the medicine, has a caregiver or something or he himse
	(physician, pharmacist,	duties	knows how to take the medicine. Umm I think that if this circle is complete, I med
	patient, caregiver)		it would be good." (CP06)
		Lack of guidelines	
	Continuous development in		
	healthcare services		

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TDF Domain	Facilitators	Barriers	Illustrative quotes
Optimism ( <i>cont'd</i> )	Community/organisation interest in helping these patients	Lack of support (e.g. understanding from senior management, charities support), bureaucracy	"I mean all matters are evolving for the better, especially that there are decisions that this category should have its right in society. ThusI meanI think the companies from now on will have all instructions written on the medicine itself" (HPO9)
		Lack of training/education about issue in pharmacy colleges  Pharmacists' behaviour	"Well, 50%. [] Because the workload is high. [] In terms of the number of patients, in terms of the pharmacist not being freed just for counselling. He has other things [to do]. So, he just barely gives the main points and then carries on with his work. You get it?" (HP03)
		(e.g. disinterest)	"The interest! [] Like we did not hear about courses or colleges or something offering education about this. [] I mean the community role is also non-existent." (CP05)
			"That so far, there are no official guidelines for this matter. I think similar to guidelines made for using any medicine, there should be one for patientswith visual impairment. We need to come up with guidelines for this matter, that everybody, like, adheres to." (CP06)
Beliefs about consequences	Patient taking medication appropriately	Lack of methods to measure consequences	"Umm without counselling, I do not think he will take his medication correctly." (HP15)
	Improved management of conditions and quality of life		"The quality of his life will increase [] the costs will decrease [] the complications will decrease, he will not be readmitted to the hospital" (HP01)
	Reduced costs/complications		"It will relief him [caregiver] psychologically, ok. It will save his time, ok. I mean it will save his effort and the service he provides to the person he is caring for." (CP05)
	Improved therapeutic		
	outcomes for patients		"Secondly, on the pharmacist, the pharmacist would lose trustthe patient would lose his trust in him so and it would extend to pharmacists in general not only this
	Improved patient compliance		pharmacist. So, he [patient] would believe for example that "Nope, the pharmacist did not offer me the right service or so on" so he would lose confidence in pharmacists generally as professionals." (CP06)
	Patient's trust in pharmacist		

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TDF Domain	Facilitators	Barriers	Illustrative quotes
Beliefs about consequences	Reduced caregiver burden		"Um like you would be experienced with this, and honestly feel self-satisfied and that you have achieved something." (HP15)
(cont'd)	Enhanced pharmacist's		, , ,
	satisfaction		"A problem might happen to him as a result. [] It would be said that I am the cause of this problem. That would be a personal problem first. Of course, as a general
	Reduced pharmacist's liability		problem um it might even affect the pharmacy group I work for." (CP03)
			"And fromfrom our believes [sic] that we can get rewards orget rewards from
	Improving pharmacist's skills and experience		your Allah if weyou do good deeds." (HP08)
			"I cannot know that I made something better If I cannot measure it in the first place."
	Rewards from God for good deeds/clear conscience		(HP01)
Reinforcement	Professional responsibility	Workforce shortage	"The pharmacist is supposed to assert or ensure that the patient has received the
Kemioreement	1 Toressional responsibility	Workforce shortage	information correctly, apart fromapart from incentives and such, professionally!
	Maintaining pharmacy	Time constraints/lack of	mean it's one of the principles of the profession and one of the duties of the
	profession reputation	privacy	profession, that he needs to assert and ensure that the patient has received the information correctly." (HPO4)
	Patient improvement/	No appreciation of	
	satisfaction/trust	pharmacist efforts	"Like, improvement of the professionthat the pharmacist is capable of, like, providing counselling for all categories of the society" (HPO3)
	Incentives (depending on	Lack of patient/family	
	person's preference) e.g.	knowledge about	"If I have the toolsIf I have the tools, yeah to help them." (HP06)
	employee of the month,	medicines	"No this is not present But if it were present it would be pice [ ] Depends on the
	verbal encouragement	Patient's behaviour	"No, this is not present. But if it were present, it would be nice. [] Depends on the recipient, on the employee himself. [] I mean some would say I want the money
	Having the tools to help	Tatient 3 benaviour	and others would say no, well, an appreciation letter, like, would be good." (HPO4)
	patients	Amount of effort required	(111 0 1)
		to deal with VI patients	"What is discouraging is that, well, whether I work or not, like, I'm treated the same
	Personal rewards from God		as anyone else. Nobody is seeing what Ihow much I'm providing to the patient."
	for doing good, justify salary	Administration caring more about numbers served,	(HP11)
	Computer system reminders	meeting KPI targets	

Determinants (facilitators and barriers) of pharmacists' medication dispensing and counselling behaviour				
TDF Domain	Facilitators	Barriers	Illustrative quotes	
Reinforcement (cont'd)		Comments from colleagues	"Workforce shortage would not let me sit with every patient and give him his time. So, you'll find me sitting and trying to finish a number, I mean sitting and finishing umm let's go, finish the first patient and the next one. Umm I mean to the point that you'll sometimes find that there is no counselling and sometimesand sometimes unfortunately there is no pharmacy [practice]! [] I mean you'd find me like, sorry for the description, you'd find me like a grocery worker!" (HP04)  "For us here, timing is usually important. Becausebecause we have the Kthe KPI which must be like less than 20 minutes [] So I think like this is a little not ummm is against the pharmacist doing counselling with every patient." (HP17)	
Intentions	Positive intentions to resolve issues related to dispensing & counselling	Time pressure  Organisational culture that is not supportive  No activation of policies  Absence of caregiver  Complicated cases  Patients refusing counselling  Prescription being unclear  Inability to communicate with physician  Shortage of medications	"There is one idea that we want to apply in the pharmacy thatummmaybe print QR code [] the one who cannot see will just use the QR code and it will give him the instructions for this medicine" (HPO1)  "One time we started a project which was Braille [] So they brought it so that printing could be in Braille, but the project did not work because of some problems." (HP11)  "I would tryI would try as much as possible if the packs were similar, two different medications with similar packs, I'd try to look for an alternative with a smaller pack for exampleso that they are different in size." (CP03)  "As I told you, time pressure. Noumm no enough support fromfrom the organisation [] andumm and the culture of theof the organisation, if it's a culture that is very helpfulit will help. If it's a culture that doesn't support you" (CP06)  "If the case is somewhat severe, definitely no. I'd certainly be afraid. I would let him know that, well, this is a case for the hospital." (CP03)	

TDF Domain	Facilitators	Barriers	Illustrative quotes
Intentions ( <i>cont'd</i> )			"I mean some of them, already when you try to approach them, he will give you the sign that "Nope, nope, thank you. Sorry, I understand, I know.", or for example "No need, I, like, have someone at home who can take care of me. So, like, there is no need". So, it would beso you feel, like, even if youif you say anything, it will be useless. I mean even the patient, he will lose interest, indifferent to you." (HP10)  "The only thing that would prevent us is being unablethe ability to communicate with the physician." (CP08)
Goals	VI patients a priority because of their special needs and being more prone to medication problems  Beliefs about proper dispensing/counselling being a patient right  Patients/caregivers understanding instructions, patients taking medication properly and coping well during follow-up visits, case less complicated (because pharmacist can then focus on other patients in need)  Patient having professional help at home (e.g. nurse) (because pharmacist can then focus on other patients in need)	Practice setting (VI patients not coming frequently)  Time constraints	"Yes! Priopriopriority, the highest level of priority. [] Why? Because this is a living example of people who may take medicine in a wrong way, who may have medication errors at a very high rate, at 200% not 100%soo, high priority." (HPO4)  "For me, not a very high priority. Because II mean, these kind of patients do not come frequently to the pharmacy. That is it. Sothis can be improved in hospitals, more of in institutions, I meanor the hospital pharmacy, it would of course be better in this regard. Of course they'd consider it a priority. But in a community pharmacy, that would be a little difficult because there are many community pharmacies and these kind of patients may not be that many considering the spread of pharmacies" (CPO3)  "It depends on how many patients you will see. If you see let's say one patient per year of umm visually impaired patients, ok so this is only one patient. If you seeif you are in an institution umm where you probably see many patients, ok, visually impaired patients, then in this case umm, ok,there should be training, there should be using all tools that mightthat might help." (HPO6)  "If I am sure that they are taking their medications on time, they are understanding my instructions, they are doing ok with their follow-up visits, I wouldn't change anything." (HPO6)  "Sometimes too many patients requiring services at the same timeit forces you to be brief in explanation, especially if the patient has been using the medication itself

TDF Domain	Facilitators	Barriers	Illustrative quotes
Goals (cont'd)			"Less important ifhe has for examplea nurse at home or I mean someone who is a healthcare provider at home. Therefore, it would beit would be, like, easy with them. So the importance is notthe responsibility would not lie only with the pharmacist I mean, there would be someone helping." (CP06)
MADP	A note about VI in medical chart	Not everyone reading notes in the medical chart because of time constraints	"Maybe, maybe you can find it [information about VI] in the notes. [] We do oper it, but not always, to be honest." (HP15)
	Patient presenting at the pharmacy in person	Not recognising the patient or not knowing he needs	"Maybe if someone else comes to dispense, not the patient, you wouldn't know that the patient you dispense for is blind." (HP10)
	Patients presenting cards indicating their disability	special assistance Patient not disclosing VI,	"As I am telling you, even when theywhen he comes into the pharmacy, he never tells that he is visually impaired [] and of course I never try to say like [] "Oh, you have an impaired vision?"he'd consider it likean insult or something like that."
	Decisions based on understanding patients'	pharmacist avoiding asking about VI	(CP04)
	needs  Checking the prescription,	Lack of computer alerts about VI	"So, all of this will be umm be also based on the needs of every personI mean, i will be tailored to the patient I mean, should not be equal" (CP01)
	talking with the patient, reading doctor notes	Too many patients	"There is an alert for duplications. But like the problem is that we somewhat ignor the system's alert because it pops up a lot." (HP17)
	Asking about medication quantity at home to assess patient use of medication	requiring services at the same time, workload  Remembering to address	"I mean by just remembering the errors that happened or the stories, the history I'v been told. [] Sometimes it is presented to us. [] The medication safety office would come and say so. Sometimes [] you get an email with a full explanation of
	Being aware of prior	issues "by chance"	the issue. So that is like an alert, you need to stop and check." (HP16)
	errors/being sent emails about them/having them presented by the medication	Insufficient information about the patient	"I give all the directions. But we for a patient with eye problems, I don't focu closely because as I am telling you I trust that the caregiver will be the one givin him [the medication]." (HP14)
	safety officer	Long periods of time between patient's visits	
	Alerts for certain issues, e.g. allergies, duplications	Focusing on the caregiver	

TDF Domain	Facilitators	Barriers	Illustrative quotes
ECR	Guidelines (internal guidelines and instructions	Workforce shortage	"I mean, everyone should not act as they please. These guidelines would give you the final conclusion that they have arrived at using approved and proper medical
	from administration would help until there are official	Time constraints	methods." (CP03)
	guidelines)	Pharmacy layout	"I wish there would be a course adopted from universities abroad that deal with this, make it in Arabic and take it it would be for colleagues who deal with them'
	Pharmacy design & layout	Relying on technicians	(HP09)
	(e.g. dedicated window for	because of pharmacist	
	patients with a disability)	shortage	"Also, providing aids, I mean if there were brochures or video clips or sound, sound clips so that he'd listen to sound clips in one way or other. If there is likesome
	Courses on how to communicate with disabled	Poor resources	pharmaceutical accessories like organiserspill organisers and such" (HP04)
	people	Practice setting (few numbers of VI patients)	"I'd tell him "Record, no problem, record a video of me [explaining], no problem." (HP05)
	Tools, e.g. brochures,		
	video/sound clips, pill	Braille information may be	"I would try as much as possible if the packs were similar, two different medications
	organisers, coloured markers, methods to	only useful for younger patients who know Braille,	with similar packs, I'd try to look for an alternative with a smaller pack for exampleso that they are different in size." (CP03)
	differentiate between packs	not being able to double	<b>"</b>
		check braille labels	"The problems are that it only prints in Braille, it does not print the other [regular
	Large font or Braille labels/instructions useful but	Not having access to	text. So, we cannot knowcannot double check, cannot know what was printed. [
	may not be practical	Not having access to physicians	So, it stopped until they can fix this problem." (HP11)
	may not be practical	priysiciaris	"Unfortunately, no, because that is a stanstandard label. Umm we have certain
	Braille writing on packs	Similar appearance of	font size, we can't exceed it because it will be excludedit will be print [sic] out of
	offered by some companies	medications	that label, yeah." (HP08)
	Checklist with a question	Changing medication	"When the pharmacist is providing counselling, there should be like a checklis
	about disability and one to help with counselling	brands which leads to patient confusion	available to help him with providing the counselling." (HP04)
	neip with counselling	patient comusion	"Work environment is not, because I have my own clinic, so it's not really big deal can just spend [as] much time, as much I can spend." (HP06)

TDF Domain	Facilitators	Barriers	Illustrative quotes
CR (cont'd)	Companies manufacturing drugs in different looks/shapes  Smart phone applications/ QR codes  Pharmacist practising in a clinic (e.g. clinical pharmacist)/private area for counselling  Tools to be required and monitored by official bodies  Patient support services (e.g. clinic for support of blind patients, volunteers to take patients to the pharmacy)  Methods of identifying that the patient is visually impaired (e.g. disability card, computer alert, note from physician)  System for recording errors	Barriers	"He sometimes has a card, a disability card. [] I'd serve him quickly" (HP09)  " Too many patients requiring services and lack of time, I'm telling you the da workload ranges from 550 and up to 900 patients divided between eight windows (HP12)  "I think that there is more interest there than we have here. [] because the hospit is dedicated to eyes. Here, it is mixed, general with eyes with" (HP14)  "One of the obstacles we face with these things is poor resources. There is a support. [] Because as I've told you, the administration has no knowledge of wh you are doing in the pharmacy. "All you have is a prescription, you're at the winder [dispensing] and that is it". They know nothing about these other things." (HP04)  "It is very difficult, impossible to reach the doctor there [] even at private clinics would be hard to reach him. He is with patients the whole time because of the shoperation hours." (CP04)  "Sometimes the medicine's company changes. I mean previously he was used the medication and knows its shape and texture, so it would be difficult to convin him that this is the same medication but from a different company" (HP09)

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TDF Domain	Facilitators	Barriers	Illustrative quotes
Social influences	Patients	Patients not having confidence in pharmacist	"I mean there are patients that you feel like they are very careful about themselves, you feel they have the willingness "Yes, tell me. Yes, I want to see" and some would
	Caregivers	or refusing counselling	tell you like "Just finish. I'll take the medication and leave. It is none of your business. Don't" I mean it depends on the attitude of the patient." (HPO3)
	Physicians/nurses	Caregivers	"The patient sometimes has more confidence in the physician than the pharmacist,
	Pharmacy colleagues	Other patients	he does not get convinced with what the pharmacist is telling him or does not appreciate the importance of the pharmacist." (HPO4)
	Social workers	Physicians	
	Senior management	Pharmacy colleagues	"Here, when we dispense for those with special needs, other patients jump in "why did you let them go [first]". [] I mean, he is barely concentrating with me, and this one comes to interrupt me and him. So, my train of thoughtyou must go through
		Pharmacy trainees	it all over again." (HP15)
		Senior management	"Umm usually umm actually nobody except for probably the caregiver, if they have a caregiver who can really help. [] if the caregiver cannot really deal with this, this is difficult because sometimes you rely on them, if you don't have any other tools to" (HP06)
			"I'd talk to the nurse and communicate directly with the physician and explain to him that this thing is wrong. [] Explain to him I mean. And the vast majority are fine and responsive. I mean we never struggle with this." (HP13)
			"I'd notify him about our intervention and the issue of the medication error, but he wouldn't not accept this. Because "Nope, I'm the physician and what do you know! Do as I say" and this has consequences and it happens." (HPO4)
			"I may be influenced by the rest of my colleagues who are not working or making an effort. And at the end we are treated equally. [] on the long run, it might influence me." (HP11)
			"Because there are students so when they return the medication, they return it wrong. [] there were 2 mg [strips] placed there by mistake" (HP10)

Determinants (facilitators and barriers) of pharmacists' medication dispensing and counselling behaviour				
TDF Domain	Facilitators	Barriers	Illustrative quotes	
Social influences (cont'd)			"If they included something about the staff being supposed to cover this aspect [through] for example a lecture per year, safetyas part of safety. Umm a protocol or something in which each employee is required to attend at least one [sic] per year this umso he would understand and be qualified." (HP14)  "Basically, even the supervisor himself wants you to, like, finish patients fasterdon't sayjust finish quicklydon't saygive a lot of information, just give the basics and finish." (HP15)	
Emotion	Feeling satisfied/happy/ proud with preforming duty and helping patients	Stress may affect quality of service  Fear of: making mistakes,	"Of course, I feel proud that I umm was able to contribute to improving his condition, that he would be always safe taking his medicine." (CP06)  "My work stress would really reduce the quality of my work, and my sympathy for	
	Sense of achievement  Feeling greater responsibility	patient having multiple disabilities, patient coming alone	the patient would improve my performance toto a high degree. Of course, if I were emotionally engaged, I might really not sleep unless I find a certain way." (HPO3)	
	Sympathy as positive influence	Feeling greater responsibility (wishing others would deal with	"But the pressure would be a little higher than with the regular patient. You'd be afraid um he'd make a mistake and you'd be the cause. This fear or the thethis is present with every patient, but it increases with special cases. (HP12)	
	Obsession with providing full service to clear conscience	patient)	"I feel like what I've been entrusted with has increased. You get it? Thatit honestly is a responsibility. I mean you'd wish that these people, [] like, to have the supervisor to deal with them, maybe especially the blind, or something like that. Because I don't know, like sometimes you'd wish to relieve yourself of this responsibility. You get it? Sometimes, I mean you are just afraid." (HPO3)	
Behavioural regulation	Checklist to help with providing counselling	No method to measure effect of counselling	"This is something we need during counsellingwhen the pharmacist is providing counselling, there should be like a checklist available to help him with providing the counselling." (HPO4)	
	Asking patient about medication & previous counselling  Asking patient to repeat	Lack of formal policies/procedures  Pharmacist documentation not always done	"I would ask him to repeat the sentence I have told him, the medications use instructions. [] so I ask him to repeat the explanation and explain it to me again. If there is any question, When he says everything is ok, that is it, thank God." (HP13))	

TDF Domain	Facilitators	Barriers	Illustrative quotes
Behavioural regulation (cont'd)	Following-up with patients/ caregivers (feedback)		"Maybe at the next dispensingsometimes, he'd come to you before the medicatio finishes and tells you "I've finished it!" Ok, how did you finish it and you are suppose to still have stock? That is evidence that he either lost it, or is, like, taking it in
	Pharmacist documentation		wrong way." (HP09)
	Experience		"I mean for example I have a report for medication errors. Whenever either a nec miss or any other error occurs, we all record it. So that is an indicator um that would
	Patient coming before refill time		let us know what happened. (HP14)
	Patient outcomes		"But now we, we, with thewith the KPIs and these things, you know, the ke performance indicators, there might be something that can assess. It might be questionnaire for patients." (HP14)
	Code of conduct		
	Medication error report		" I mean it is mostly personal efforts, there is no guideline for us to follow." (HP14
	Key performance indicators		"The problem we have is that we do not have things to measure theor productivity [] the instructions, all of these things that you do, did it affect the
	(KPIs)		patient? Did it make the patient better?" (HP01)

**Abbreviations:** CP= Community Pharmacist; ECR= Environmental context and resources; HCPs= Healthcare professionals; HP= Hospital pharmacist; KPI= Key performance indicator; MADP= Memory, attention, and decision processes; QR code= Quick response code; SPRI= Social/professional role and identity; VI= Vision impairment