

Supplemental Material Table 1. Description of factors and themes as discussed by participants and the corresponding TDF determinants.

Refined factors/ categories	Description of factors	TDF (COM-B) determinates
Focus group 1		
Local/national guidelines	National Institute for Care Excellence (NICE) guidance	Knowledge (psychological capability)
Patient characteristics	Age, cognition, comorbidities, mood/mental health, blood pressure, gastric quality, ability to swallow, patient experience of using a drug, patient choice, polypharmacy, physical wellness, route of administration, ability to adhere to medication advice, home support	Memory, attention and decision processes (psychological capability)
Disease prognosis	Distinguishing disease factors: stage of disease, duration of condition, diagnosis, shock of diagnosis, symptoms of tremor, severity of symptoms, guidelines	Memory, attention and decision processes (psychological capability)
Response to treatment	QoL, aligns with patient and HCP outcome expectation, ability/ease to objectively measure positive response to treatment/desired outcome	Belief about consequences (reflective motivation)
Interpersonal relationships	HCP experience of prescribing a treatment, advice from consultant, responsibility of the HCP to prescribe, specialist approval, access to MDTs or peer advice	Social influences (social opportunity)
Access to treatment	Cost, availability of medication in blister packs, ease of use, availability of medication in practice formulary	Environment context and resources (physical opportunity)
Focus group 2		
External factors	NICE guidelines, new research, the media, treatment availability, waiting times for treatment, positive or negative HCP or peer experience of prescribing medication, HCP and patient support using the medication, cost and availability	Environment context and resources (physical opportunity) Social/professional role and identify (reflective motivation) Social influences (social opportunity)
Patient characteristics	Age, biological age, patient condition (e.g., their cognitive state and suitability to receive a medication), comorbidity, psychiatric history, suitability of route of administration of medication, polypharmacy	Memory, attention and decision processes (psychological capability)

HCP experience	HCPs personal experience of prescribing a medication	Social/professional role and identify (reflective motivation)
Side effects	Medication side effects	Belief about consequences (reflective motivation)
Focus group 3		
Patient characteristics	Age, comorbidities, stage of disease, sub-type of PD, symptoms and symptom severity, impact on QoL, social support, side effect profile, patient choice, patient expectation and desired outcome of treatment	Memory, attention and decision processes (psychological capability)
HCP experience	Personal clinical experience, clinical judgement, familiarity with medication, knowledge of efficacy, opportunity and knowledge of clinical trials	Social/professional role and identify (reflective motivation)
Practicalities	Ease of medication administration, efficacy of treatment for symptoms, side effect profile, capacity to monitor patients, availability of medication in local formulary, cost, guidelines	Environment context and resources (physical opportunity) Belief about consequences (reflective motivation)
Focus group 4		
Medical concern	Patient and HCP treatment concerns, consider patients cognitive ability and motor <i>versus</i> non-motor symptoms	Memory, attention and decision processes (psychological capability)
Age	–	Memory, attention and decision processes (psychological capability)
Side effects	Side effects from previous medication, history of impulse control, consideration that medication does not affect current lifestyle	Belief about consequences (reflective motivation)
Lifestyle	Employment status, daily activity, PKG report, social support and family	Memory, attention and decision processes (psychological capability)
Preference	Patient expectation and desired treatment outcome, adherence, route of administration, patient requests	Goals (reflective motivation)
Comorbidity	–	Memory, attention and decision processes (psychological capability)
Factors discussed but not prioritised: access to multidisciplinary team, cost, drug availability		

Focus group 5		
Symptoms	Severity of symptoms, impact on daily life	Memory, attention and decision processes (psychological capability)
Efficacy and safety	Efficacy of medication, safety of use	Knowledge (psychological capability)
Side effects	Risk of side effects, side effect profile, side effects experienced from previous medication	Belief about consequences (reflective motivation)
Patient characteristics	Age, gender, weight, cognition, patient education	Memory, attention and decision processes (psychological capability)
Preference	Patient choice, request	Goals (reflective motivation)
Factors discussed but not prioritised: HCP personal experience of prescribing a medication, guidelines to an extent, local tradition, cost, cost reimbursement, availability of medication, adherence		
Focus group 6		
Patient characteristics	Age, frailty, comorbidity, symptom burden, symptoms, cognition, education and literacy, past medical history, experience with previous treatment, family member experience, risk of impulsive behaviour, formulation preference, allergies, intolerances, religious beliefs, vegetarian, concordance	Memory, attention and decision processes (psychological capability)
Quality of life	Employment status, health beliefs, goals and expectations	Memory, attention and decision processes (psychological capability)
Social setting	Home support, current lifestyle, ability and access to follow up with patients	Social influences (social opportunity)
Drug factors	Availability of medication, cost, efficacy, pill burden, mode of action, mode of administration, drug-drug interaction, NICE guidelines, using off licence or for side effect/similar	Knowledge (psychological capability)
Prescriber experience/culture	Prescriber experience and confidence prescribing a medication, cultural beliefs about prescribing, off-licence use, organisational constraints on prescribing, HCP knowledge of patient	Social influences (social opportunity) Belief about capabilities (reflective motivation) Knowledge (psychological capability)
Focus group 7		

Clinical factors	Type of PD, age, polypharmacy, years since onset, severity of symptoms, side effects, use of previous treatment, comorbidities (e.g., cognitive disorders, hypotension, depression)	Memory, attention and decision processes (psychological capability)
Shared decision making	Consideration of what patient wants	Social influences (social opportunity)
Guidelines	Treatment guidelines, drug regulation and published evidence of drug efficacy	Environment context and resources (physical opportunity)
Treatment needs	Simplify drug schedule, patient expectations of treatment outcome, patient QoL, symptoms patient wants to target	Goals (reflective motivation)
Cost	–	Environment context and resources (physical opportunity)
Social support	–	Social influences (social opportunity)