## Table 3 Data collection of process evaluation

Focus	Assessment	Measurement point		
Domain – Context: In which context and setting does the intervention take place? What are the determinants of implementation?				
Hospital level				
Hospital baseline data on organisational- structural conditions, e.g.: - Organisational structures and processes - Organisational culture - Organisational Readiness for Implementing Change	Written survey: key person at the hospital (e.g. management, project manager)	Control phase		
<ul> <li>Staff baseline data on organisational-personnel readiness, e.g.:</li> <li>Professional background</li> <li>Interprofessional collaboration</li> <li>Organisational Readiness for Implementing Change</li> <li>Acceptance and Use of Technology</li> </ul>	Written survey: pharmaceutical and medical staff	Control phase		
Patient level				
<ul> <li>Patient baseline data, e.g.:</li> <li>Socio-demographic data</li> <li>Previous experience with MTM and components of the TOP intervention</li> </ul>	Written survey: enrolled patients	Shortly after discharge from hospital (t0)		
Domain – Context: What factors inhibit or promote implementation of the intervention? How is the intervention implemented in health care practice?				
Hospital level & Patient level Inhibiting and promoting factors	Document analysis	Transition and intervention phases		
Hospital level				
Implementation status, e.g.: <ul> <li>Status of technical implementation</li> <li>Status of implementation of TOP processes</li> </ul>	Document analysis	Transition and intervention phases		

Domain – Recruitment: Who receives the intervention?			
Hospital level			
Data on representativeness, e.g.: - Structural variables of alternative hospitals	Data extraction with survey form	Control phase	
<ul> <li>Participation information, e.g.:         <ul> <li>Reason for participation</li> <li>Implementation policy and practices, resources</li> <li>Tension for change, public needs (CFIR)</li> </ul> </li> </ul>	Interview: key person at the hospital (e.g. management, project manager)	Transition phase	
Patient level			
Data on the recruitment process, e.g.: _ Number of consents	Document analysis	Control, transition and intervention phases	

Domain – Implementation: Is the intervention implemented and applied in principle, as planned? To what extent is the intervention implemented and applied?

Hospital level		
Implementation process and implementation		
outcomes, e.g.:	Written survey: pharmaceutical and medical staff	Intervention phase
<ul> <li>Appropriateness, feasibility, acceptability</li> </ul>		
<ul> <li>Implementation of intervention according</li> </ul>	Document analysis	Transition and intervention phases
to standard, adaptations to the		
interventions		
<ul> <li>Fidelity, dose, reach</li> </ul>		
Patient level		
Implementation process and implementation	Written survey: enrolled patients	Shortly after discharge (t0) and approximately 90
outcomes, e.g.:		days after discharge (t1)
<ul> <li>Perception and evaluation of intervention</li> </ul>		
components such as contact with	Document analysis (software data)	Intervention phase
pharmacist		
– Reach, dose		

Domain – Mechanisms of impact: How is the intervention accepted by those involved? What are the unintended consequences and how are they to be evaluated?

Hospital level		
Response, e.g.:     Intervention evaluation and attitudes     towards TOP intervention	Interview and written survey: pharmaceutical and medical staff	Intervention phase
<ul> <li>Interprofessional collaboration</li> <li>Use of intervention in work routine (normalisation process)</li> </ul>	Document analysis (software data)	Intervention phase
Patient level		
Response, e.g.:	Interview: subsample of enrolled patients	After discharge from hospital, Intervention phase
<ul> <li>Attitudes to and experiences of TOP</li> </ul>		
intervention		

Domain – Effectiveness: How effective is the intervention, as perceived by the participants? How are the results to be interpreted in relation to the targeted outcome parameters (primary and secondary outcomes)?

Hospital level		
Sustainability, e.g.:	Interview: key person at the hospital (e.g.	Intervention phase/follow-up phase
<ul> <li>Organisation-related expectations of the</li> </ul>	management, project manager)	
intervention met		
<ul> <li>Intentions for continuation</li> </ul>		
Reflection of the implementation process	Interview: inter-hospital group of experts	Intervention phase/follow-up phase