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Core Outcome Measures for Adults with Neurologic Conditions: Pilot Implementation in Hospital-Based Outpatient Clinic.



Purpose	Summary of Use			
To describe a pilot implementation project of 3 of the core	Documentation phrases Administration guides provided electronically Equipment list and clinic set-up Binder in clinic with master copy of guides Competency checklist Survey to assess effectiveness of education Chart audit tool		Phase II: Education	
neurologic outcome measures (OMs) within a small outpatient clinic.			InserviceLab• CPG: • Background• OMs trained: • FTOTO	
 OMs provide a standardized method to track patient progress and functional status across levels of care Consistent OM use is crucial to reflect expertise in the movement system and to implement evidence-based clinical practice guidelines (CPGs)¹⁻³ Core OMs (COMs) identified through CPG, and the Academy of Neurologic PT (ANPT) developed tools to facilitate use of COMs in the clinic⁴⁻⁶ PTs should have adequate exposure to and demonstrate administration of COMs. 			 Development process Intended use All 6 COMs: Constructs Documentation Specifics 3 small groups for cases: Acute, chronic stable, chronic progressive conditions Summary sharing Lab plan (OMs to train) State of the state of the state	
competent administration of COMs, reflecting DPT education in the clinic environment ⁷ Neurologic residency capstone project bridged a knowledge translation (KT) gap by providing clinicians with didactic knowledge and skills training to aid in standardized administration of OMs	15 July 2019 "Roll-out" went live 7/15/19 with survey, weekly check-ins, and tracking use of measures with chart audits		16 August 2019 Audit tool used to track for 5TSTS, 10mWT, and FGA to be administered to neuro patients at evaluation (IE), re-eval, and discharge (DC)	
Summary of Use	Project Outcomes			
 <u>Needs assessment identified</u>: Clinic (<i>n</i> = 12 PTs including the resident) was not equipped to use COMs according to ANPT 	Phase I Components Utilized in Clinic During Phase III Documentation phrases (chart review)	Staff + Resident Utilization 100%	 Survey: 47% response rate (n = 11 PTs not including the resident) 71% stated education/lab led to improved knowledge of OMs and their role in patient management, in addition to willingness to use the OMs 	
recommendations	Clinic equipment/set-up	100%	 Barriers and obstacles identified: time and clinic space 100% stated high likelihood to use administration guides to 	
 Inconsistent use of OMs within the clinic Staff expressed willingness to begin adopting the CPC 	Administration guides (electronic)	100%	 help administer the 5TSTS, 10mWT, and FGA 46% stated moderate likelihood to discuss OM results with 	
 Staff expressed willingness to begin adopting the CPG recommendations. 	Binder (hard copies)	25%	patients and incorporate shared decision-making and goal- writing into POC	
 Project scope: Developing a plan to tackle lack of consistent, standardized OM use in the clinic Major components enacted by the resident are outlined in flowchart below: Phase I: Preparation & Phase II: Education & Phase III: Implementation Project Outcomes: Resident's and Clinicians' 	 Resident performance: Resident consistently used outcome measures per goal of the project using chart audit tool Included documentation phrases, education/shared decision-making statement, using OMs in goals, and re-assessing at re-eval and DC (100%) For 21 IEs: 19% had all 3 OMs captured at 1st visit, 63% had all 3 OMs captured by the 3rd visit There was no correlation between diagnosis and which OMs were captured at 1st vs capturing all 3 at 1st visit vs capturing all 3 by the 3rd visit 		 Staff caseload: < 10% neuro; resident caseload: 100% neuro Clinician performance: Clinicians (3/11 PTs) each completed 1 IE, and with inconsistent performance using chart audit tool They each used documentation phrases accurately (100%) None incorporated an education statement/shared decision-making, or used OMs in their goals, nor did they show any evidence of re-assessing the OMs at re-eval or DC (0%) Even with training and environmental setup, performance was not 100% consistent 	

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Clinical Significance arriers to achieving OM administration with consistent inician performance are clinic-wide, and putting a CPG to practice takes a lot of work^{5,6,11-14} hange in practice can be met with resistance^{5,6,11-14} nis pilot project may reflect a reasonable method to andardize COM implementation into hospital-based utpatient clinics in a way that is not overwhelming to inicians nor overtly costly to management, and it may able to aid in outcomes tracking⁸⁻⁹ OMs have wide utility, and their use is not exclusive to atients with neurologic diagnoses; this may allow inicians more practice using the COMs

Results and Discussion

esident's self-reflection:

- Residency training provided the avenue to improve standardization of OMs and understanding of their clinical importance \rightarrow considering why ("appropriate") vs "not appropriate" vs "scoring a 0" vs "screening") OMs are reasonable to train with minimal equipment Embedding OMs in evaluation template helped with
- frequency of use
- nis project included similar and additional elements to hat has been described in the implementation science erature, but over a shorter timeframe⁸⁻⁹
- terature has limited data on solutions to limited inician adherence and challenges with KT⁸⁻⁹
- taff appreciate feedback to help with consistency⁸⁻⁹ mitations: duration; participation; single sight

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