The Benefits Of Providing Occupational Therapy In A Canadian Emergency Department Jessie Trenholm, BScOT

Introduction

The provision of Occupational Therapy (OT) services in the Emergency Department (ED) has been proven to benefit patients, the larger health system, and other health care providers in international settings¹. A critical literature appraisal was completed in 2011 and presented at that year's CAOT conference detailing these benefits:

Patient Benefits

Catching undiagnosed functional impairments/more comprehensive functional assessments

Promoting independence/staying in independent living environment longer Decreased risk of falls

Reduced anxiety/fear

Individual attention

Prevention of unsafe discharges

General appreciation for OT service

Improved safety upon discharge

System Benefits

Prevention of inappropriate or unnecessary hospital admissions Reductions in hospital length of stay Prevention of subsequent hospital admissions Better (more specific, targeted) referrals to community services Earlier start in discharge planning Decrease in cost per patient treated Relative low cost of program implementation

Generally maximizing ED patient through-put

More efficient utilization of ED staff resources

Provider Benefits

General appreciation for OT service

Positive effect on ED "culture"

Offloading other service providers

Improvement in decision-making process/increased collaboration

Presence of ED contact person to community service providers

Objective

To determine if the literature-proven effects of providing an Occupational Therapy service in the ED can be replicated in a Canadian setting through a structured evaluation, focusing on:

- Patients
- The larger health care system
- Other health care providers in the ED.

Methods

A full-time Occupational Therapist position was piloted in a Canadian metropolitan hospital ED for ten months, focusing on ED patients over the age of 75 with functional impairments. The impact of this pilot project on patients, the system, and providers was evaluated using a mixed methods approach.



assigned "Clinical Risk Grouper (CRG). The CRG is a tool used to classify individuals into severity-adjusted homogeneous groups, and was used in this study as a proxy measure of patient frailty.

Each therapist and patient encounter (n=681) generated data on discharge-related outcomes: discharges supported by OT interventions /recommendations, and potentially unsafe discharges diverted. These were identified in the following fashion:

- Before the OT saw each patient, the referral source was asked whether the plan was likely for the patient to be admitted or discharged from the Emergency Department
- Each time the OT intervention/recommendation changed that disposition from the original plan, that patient encounter was labeled as "admission avoided" or "unsafe discharge prevented".

ED health care professionals were surveyed for their perception of the impact OT had on patient care and on the health care team, including perceived value added to the patient diagnostic and discharge planning processes.



Results (continued)

Comparison between the OT (intervention) group and the control group did not show a reduction in odds of returning to the Emergency Department within 30 days of the original visit, even when controlling for age and CRG. (Odds ratio estimate with OT intervention = 1.625, 95% confidence limits 1.192-2.215, significant with a Pr > Chi Square of 00021)

Discussion

Individual patients seen by the OT in the ED were significantly impacted through changes in discharge disposition, either through the prevention of unsafe discharges or admissions avoided. These two groups were almost the same size (N=64 vs. N=65), resulting in about the same total number of admissions/discharges, but with greater quality; the right patients accessing the system at the right time. Impacts of the OT assessment/intervention on individual patients could also be felt through connections with specialized rehabilitation resources, either in-patient (e.g. chest physiotherapy, wounds therapy) or out-patient (e.g. complex out-patient rehab clinics, resources for provision of adaptive equipment, chronic disease management groups, etc.).

Staff satisfaction with the program was high, with particular emphasis on the value the OT assessment/intervention added to the patient diagnostic and discharge planning processes. Satisfaction was consistently high between health care providers (physicians, nurses, social workers, and orthopedic technicians).

Study of the primary hospital/system-based outcome measure (return visits to ED within 30 days) did not show improvement. This may have been due to an imprecise manner of identifying similarly functionally impaired control patients (through retrospective application of Clinical Risk Grouper), and could be mitigated for in subsequent studies through the concurrent identification of controls.

Conclusions

Providing full-time Occupational Therapy support in the Emergency Department affected patient- and health care provider-related outcomes, but not the primary hospital-related outcome. Further study will be focused on cost-benefit analysis of this program, on refining referral criteria, and on examination of causal factors in ED return rates.

Acknowledgments

The author wishes to acknowledge the contributions of the following people:

- Mo Donald, BScPT
- Andrew Fong, MSc
- Gwen Harris, BScPT

- Doug Pratt, BScPT
- Cayley Wocknitz

Reference

Trenholm, J. (2011, June). OT Stat! Occupational Therapy in the Emergency Department (ED). Poster presentation at the annual conference of the Canadian Association of Occupational Therapists, Saskatoon, SK.