

Superior multiple sclerosis competencies in physical therapy students who participate in optional 2-year specialty education track

SCHOOL OF MEDICINE **ALLIED HEALTH SCIENCES** Division of Physical Therapy

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INTRODUCTION

- Residency is an increasingly popular path for physical therapy graduates to develop advanced clinical skills and knowledge
- MS STEP UP improves clinical knowledge and skills of PT students, as assessed using the MS Competencies Rating Scale (MSCRS)^{1,2}
- Whether scholar competencies are greater than those who receive the traditional curriculum is not known

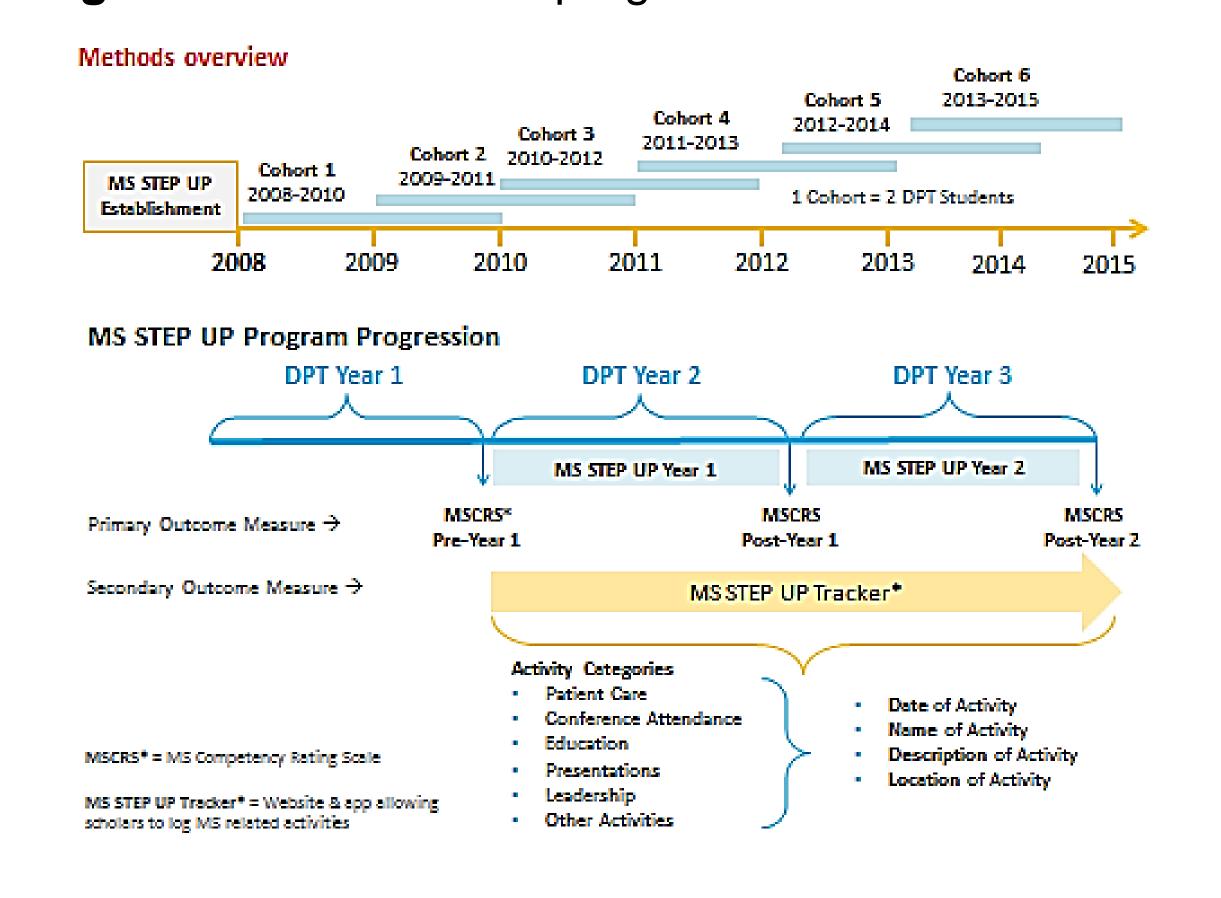
OBJECTIVES

To examine the outcomes of a specialized MS training and education program for physical therapy students (MS STEP UP) on self-rated competencies compared to students who did not participate in MS STEP UP

METHODS

- Program timeline, activities, and outcome measures are illustrated in Figure 1, Figure 2, and Figure 3
- Data from 14 scholars (7 cohorts) who have completed the 2-year program were analyzed
- We analyzed the number of items on which the scholars rated their knowledge as "above average" or "excellent" across time and compared the to entry-level DPT students after year 1 of the program (Figure 4)

Figure 1: MS STEP UP program overview



RESULTS AND OUTCOMES

Figure 2: Summary of 12 domains of MSCRS competency rating scale items

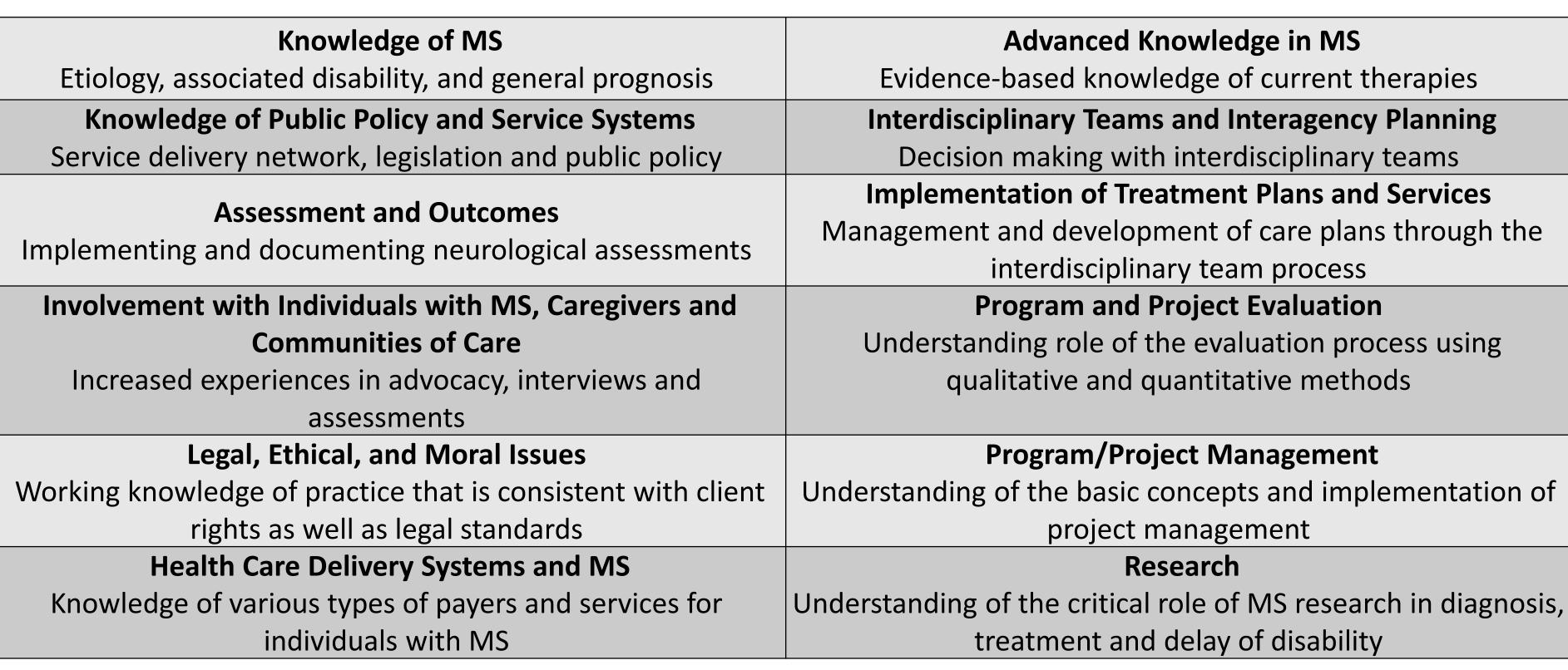
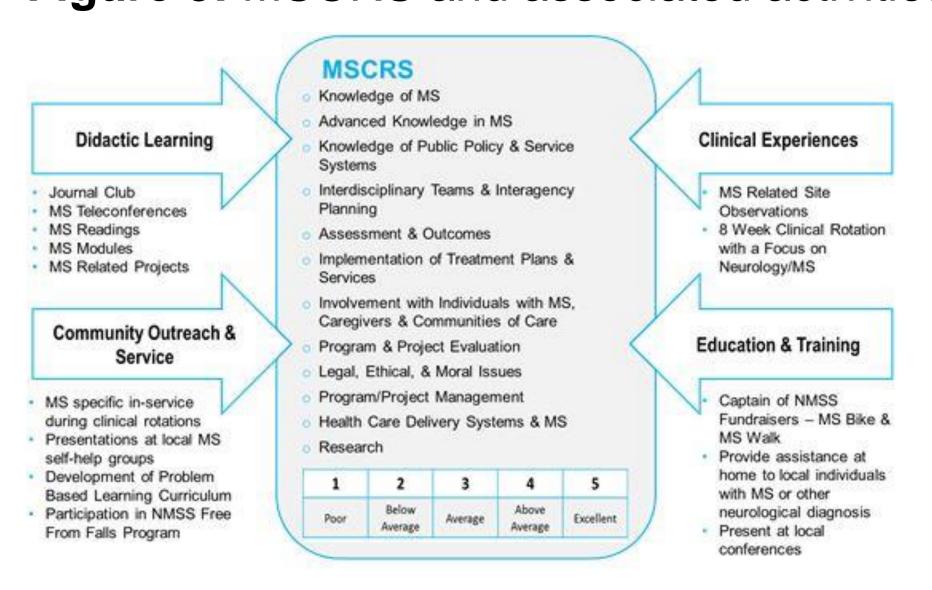


Figure 3: MSCRS and associated activities





Scholars teach education programs to clinicians



team: S'myelin Striders

coordinate UNC

DPT's MS Walk

Scholars

Figure 4: Number of MSCRS items in each of the 4 domain categories rated as "above average" or "excellent" at each time point

Self-rated MS competency among scholars by year of study (n=14)

Self-rated MS competency between scholars and non-scholars after Year 1

Baseline After Year 2

4A. The number of competency items (max. 44) on which the scholars rated their knowledge as "above average" or "excellent" increased significantly each year (p<.001) from a mean (\pm SD) of 0.64 \pm 1.6 items (0%) at baseline to 26.6 \pm 7.1 items (60%) after the first year, and 41.4 \pm 2.5 items (94%) after the second year

4B. The number of items rated "above" average" or "excellent" after the first year was significantly greater among the MS STEP UP scholars (60% of items) than the students in the regular curriculum (17% of items, p<.001)

■ Scholars
■ Non-scholars

SUMMARY

- MS STEP UP improves the clinical skills and knowledge of DPT students, as demonstrated by self-related competencies
- Scholars report greater MS-related competencies than general curriculum students, even after neurorehabilitation coursework
- Whether greater knowledge and competence transfers to more efficient clinical reasoning is yet to be determined
- MS patient care will most likely benefit from the national expansion of MS STEP UP among DPT programs



Scholars meet with legislative and political representatives and participate in other advocacy

Scholars attend MS-specific educational events: NMSS Interprofessional Program for Students, "Multiple Sclerosis: A Clinical Perspective"







Scholars help PTs treat people with MS and work on clinical research projects in

REFERENCES

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- 2. Plummer P, Rosenberg A, Eustis HL, Miller J, Osinski A, Jacobs C, Meyer D, Gooch K, Johnston L. Four-year evaluation of a multiple sclerosis educational track for physical therapy students. International Journal of MS Care. 2014;16(S3):86-87.

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