# The Impact of APhA'S Medication Therapy Management (MTM) Certificate training on Community Pharmacists' and Student Pharmacists' Self-Efficacy in Delivering MTM

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## Purpose

Medication Therapy Management (MTM) services utilize pharmacists' clinical knowledge and engage them in interprofessional, team-based model, and these services also provide an additional revenue stream for pharmacies.[1] The American Pharmacists Association (APhA) provides a certificate program for pharmacists and student pharmacists to prepare them to deliver MTM services.[2] The implementation of the APhA MTM program in a college of pharmacy curriculum has been shown to increase student knowledge regarding MTM concepts and improve students' confidence in providing MTM services.[3,4] Roseman University of Health Sciences' (RUHS) 3-year PharmD program does not currently provide the APhA MTM Certificate as a part of the curriculum. The objectives of this study is to evaluate the impact of providing APhA's MTM Certificate training on pharmacists' and pharmacy students' self-efficacy in conducting MTM and to evaluate pharmacists' self-efficacy in precepting these skills.

## Methods

Second-year student pharmacists from RUHS Henderson, Nevada Campus and community pharmacy Preceptors from the Las Vegas Valley and Arizona River Region were recruited, and they were paired-up based on location to allow for ease of the pharmacist to precept students. Participants completed the requirements of the APhA MTM Certificate program and completed three Qualtrics' surveys that evaluated their self-efficacy in conducting MTM. Pharmacists completed an additional survey utilizing the American Association of College of Pharmacy's Entrustable Professional Activities scale in the performance of their assigned student and evaluated their self-efficacy in precepting MTM after the certificate was complete. Preliminary data analysis was completed, and mean scores are reported.

## Results

**Enrolled**

**39 participants:**
20 student pharmacist
19 pharmacists

**Module and Live Training**

**37 participants completed online live training:**
18 Pharmacist
19 Students

**Post-live Training**

**23 participates completed certificate:**
12 Pharmacists
11 Students

**Scale**: 5 Strongly Agree, 4, Agree, 3 neither agree or disagree, 2 disagree, 1 strongly disagree

**Abbreviations**
CMR - Comprehensive Medication Review
MRP - Medication-related Problems
MAP - Medication Action Plan

| Student Surveys<br><br>Question Stem: I feel confident in my ability to… | Initial Pre-work Survey Mean (n=11) | Final Post-CMR Survey Mean (n=8) |
|---|---|---|
| describe MTM to patients. | 3.73 | 4.50 |
| describe MTM to other healthcare workers. | 3.73 | 4.63 |
| prepare for a CMR with a patient. | 2.91 | 4.50 |
| conduct a CMR with the patient. | 3.18 | 4.38 |
| use drug information resources and evidenced-based medicine in identifying MRPs | 3.73 | 4.63 |
| create a MAP for the patient. | 3.91 | 4.63 |
| communicate MRPs to the patient. | 3.09 | 4.38 |
| communicate MRPs with patient's care team. | 3.18 | 4.63 |
| document an MTM encounter. | 3.45 | 4.50 |
| develop and/or maintain MTM services at my site. | 3.36 | 4.50 |

## Conclusion

There is training to allow pharmacist to feel more confident in delivering MTM services. This study shows that training can increase self-efficacy in conducting MTM services among student pharmacists. A limitation with the study is the small number survey respondents. Additional studies are needed to show how this training can be integrated into a PharmD program and as postgraduate continuing education to increase self-efficacy in providing MTM.

References
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