Medication Therapy Management Services in PGY-1 Community Pharmacy Residency Programs in the US
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BACKGROUND
- Patient care is one of the four competency areas for PGY-1 Community Pharmacy Residency Programs (CPRPs) specifically stating to “Provide safe and effective patient care services including medication management, health and wellness, immunization, and disease state management including medication management following the Joint Commission of Pharmacy Practitioners Pharmacists’ Patient Care Process.”
- Medication Therapy Management (MTM) is a service that all Medicare Part D plans must offer to their patients as part of the Medicare Modernization Act of 2003.
- MTM services allows pharmacists to work with the health care providers to ensure that patients are receiving the most appropriate and affordable medications.
- Many community pharmacists utilize MTM platforms, which provides a way for drug plans to assign patients to pharmacies and for pharmacists to document and bill for MTM services.
- The purpose of this study was to obtain information from approximately 140 ASHP-APHA accredited PGY-1 CPRPs on the types of MTM platforms utilized, the types of therapeutic interventions being documented as well as other services offered at the pharmacy or institution.

METHODS
- LIU Pharmacy’s IRB and the American Pharmacists Association approved the project.
- The ASHP Online Residency Directory was used to identify all 140 accredited PGY-1 CPRPs and their program directors.
- An online survey with 14 questions was developed through Campus Labs and sent to the CPRP residency program directors.
- Four e-mail reminders were sent out between the original release date of December 11, 2017 and the final date to submit the survey on January 26, 2018.
- An introductory message was created to indicate voluntary participation in the study.

RESULTS
- A total of 140 CPRP directors were e-mailed and 34 completed a 14-question survey, with a response rate of 24.2%.
- All 50 states in the US have at least one accredited CPRP. CPRP directors in a total of 26 states (AZ, CA, FL, GA, IL, IA, KS, KY, ME, MD, MA, MI, MS, MO, NY, NC, OH, OK, RI, TN, TX, UT, VA, WA, WV, WI) completed the survey, representing 52% of US states.
- Approximately 54% of the programs were established within the last 1-5 years, 26% were established for 6-10 years, and 21% have been established >10 years.
- The most common practice sites for the CPRPs surveyed were either chain pharmacy (41%) or independent pharmacy (28%).
- Majority of CPRPs have the resident in charge of MTM services with more consultations taking place on the phone (Figures 1 and 2).
- Outcomes/MTM was the most utilized MTM platform compared to MirixaPro (Figure 3) and other platforms included DirectCare Pro, EQuIPP and independent platforms.
- The average number of monthly comprehensive medication reviews (CMRs) and targeted interventions among the surveyed sites are found in Figures 4 and 5.
- Table 1 shows a breakdown of the types of targeted interventions taking place in CPRPs.
- Approximately 85% of CPRPs provide other disease state management services at their site Figure 6 and 7.

IMPLICATIONS
While the response rate was small, this study shows that residents are involved in MTM and other disease state services during their CPRP. It is helpful to gain an understanding of how various programs provide their services to improve the experience of the resident and to promote patient care.