



Correlating Pharmacist Drug Therapy Management Competency Assessment Scores with Didactic Education

Amber Rexwinkle, PharmD, MEd, BCOP, Bonnie Butler, MEd, Diane Hecht, PharmD, MEd, CHCP
Division of Pharmacy, Pharmacy Continuing Education Program

Introduction

Drug Therapy Management (DTM) is the performance of specific acts by a pharmacist as authorized by a supervising physician through written protocol. MD Anderson pharmacists in a clinical role completing specific requirements may engage in DTM.¹⁻² The Pharmacy Continuing Education Program has delivered online DTM didactic training, providing continuing education (CE) credit, to these pharmacists every 3 years since 2016. As part of the 2023 release, learners were given the choice to complete or opt-out of the online didactic training given the minimal change in content from the previous iteration. Nevertheless, the following tasks remained a requirement for all pharmacists with DTM authorization:

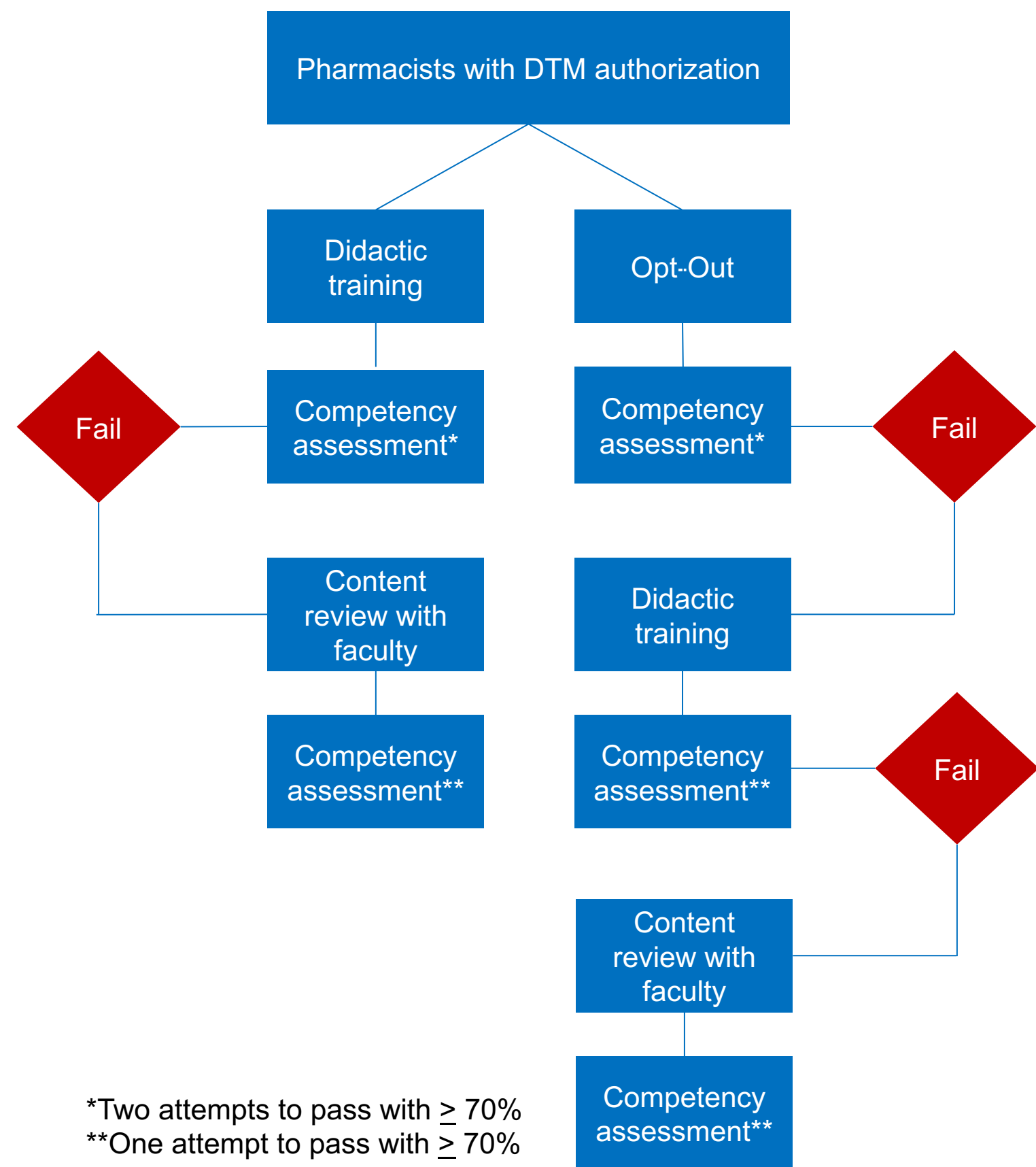
- Review of institutional policy #CLN0528 Drug Therapy Management (DTM) Under Protocol Policy.
- Completion of a 10-question competency assessment with achievement of a score of at least 70% within two attempts.

Methods

This study was submitted to the IRB and determined not to be research involving human subjects; therefore, not requiring IRB review and approval. The primary objective of this study was to determine whether completion of the didactic training impacted pharmacists’ ability to pass the DTM competency assessment on the first attempt.

Pharmacists with DTM authorization that completed the 2023 online didactic training between June 19, 2023, and August 15, 2023, were included. Pharmacists and pharmacy residents that do not have DTM authorization were excluded.

Education Plan



Results

Table 1. Demographic Information

Years with DTM authorization	Completed didactic training (n=64)	Did not complete didactic training (n=28)
	n (%)	
0	4 (6)	2 (7)
< 5	26 (41)	12 (43)
5-10	16 (25)	7 (25)
11-15	10 (16)	5 (18)
16-20	6 (9)	0
>20	2 (3)	2 (7)

Figure 1. Pharmacists that passed competency assessment on first attempt

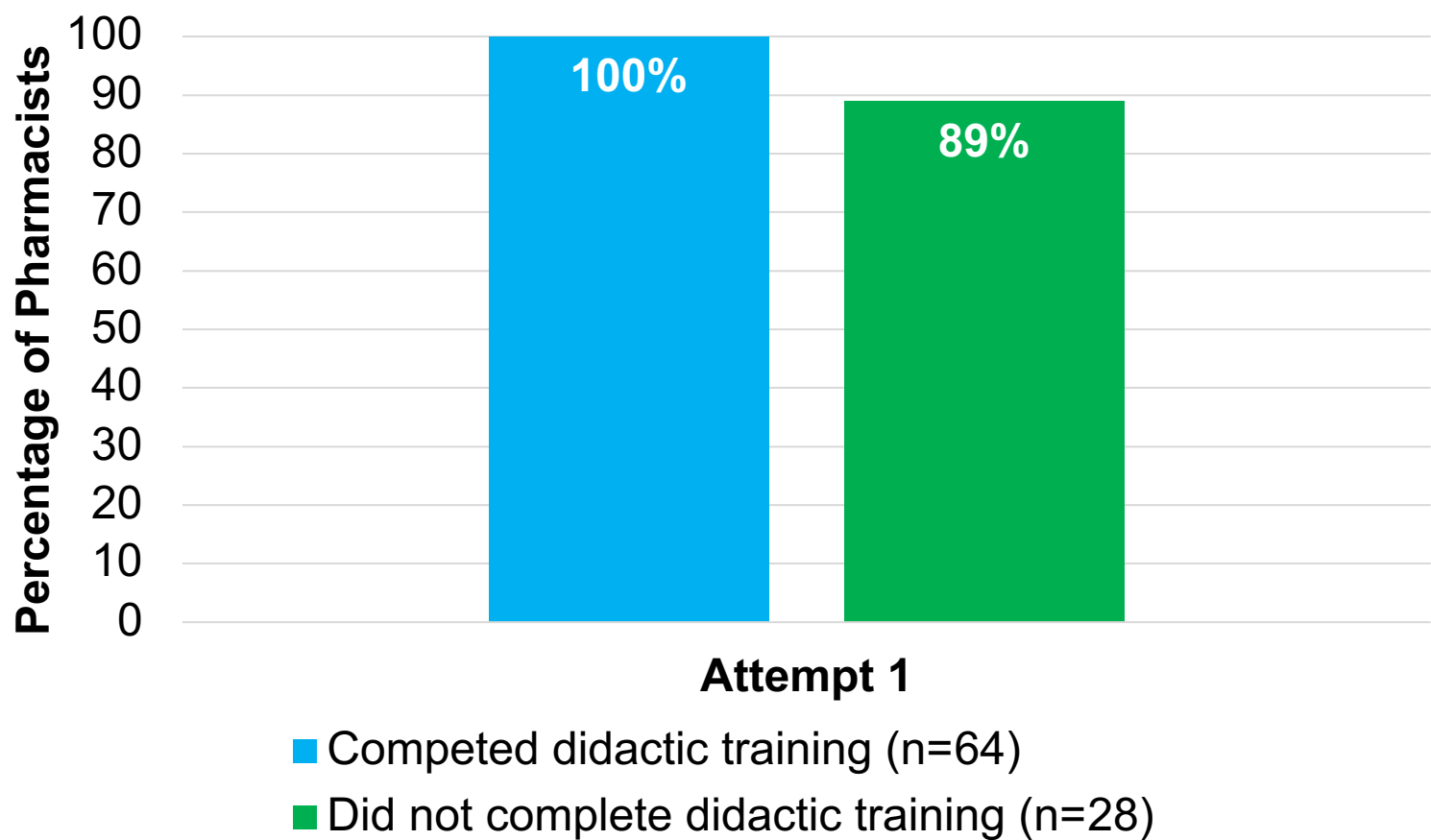


Table 2. Average competency assessment scores

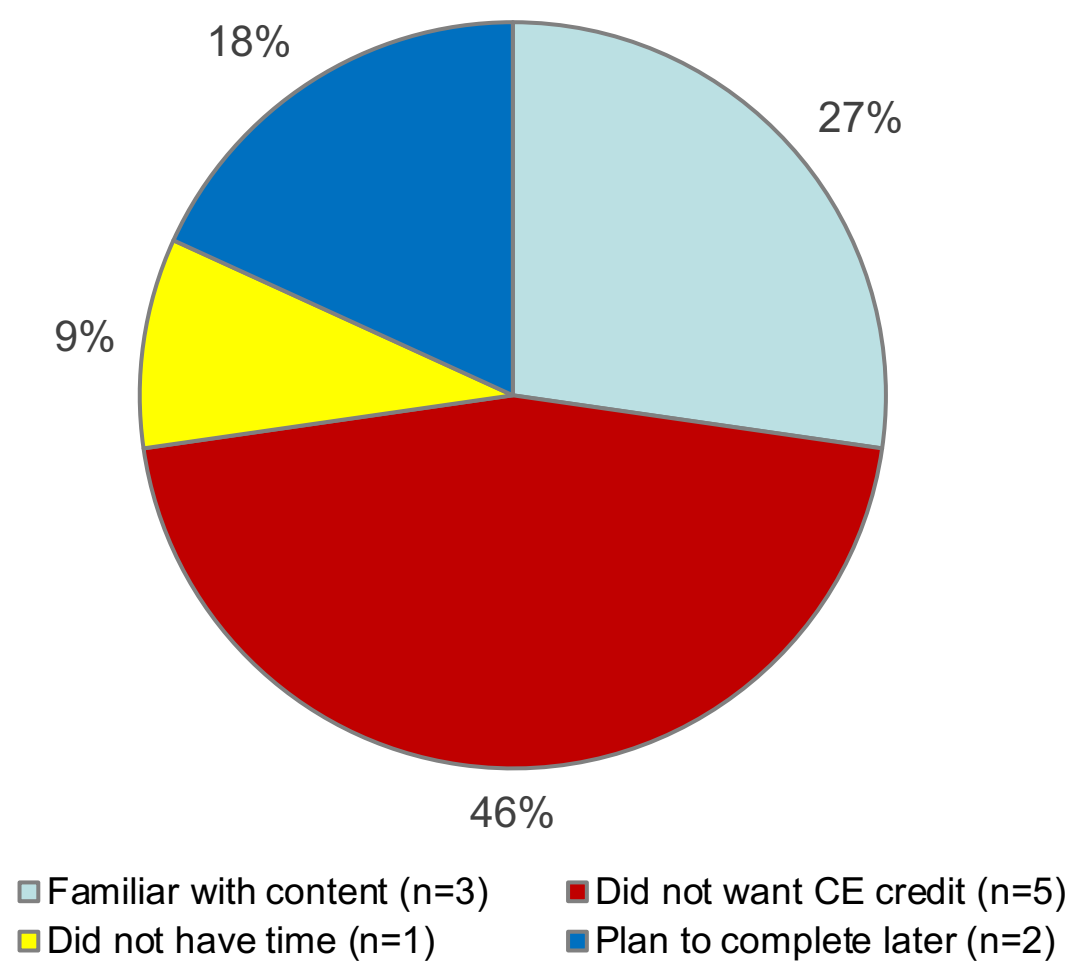
	Completed didactic training (n=64)	Did not complete didactic training (n=28)	p-value
Mean score, %	88.6	86.4	0.5

Table 3. Average competency assessment scores according to years with DTM authorization

Years with DTM authorization	Completed didactic training (n=64)	p-value	Did not complete didactic training (n=28)	p-value
	Mean score, %	0.1	Mean score, %	0.1
0	77		60	
<5	87		87	
5-10	90		89	
11-15	94		94	
16-20	90		NA	
>20	85		85	

Results

Figure 2. Reasons that pharmacists did not complete didactic training



Conclusions

- The majority of pharmacists with DTM authorization (70%) completed the optional didactic training.
- Of the pharmacists that did not complete the didactic training, the most common reason was that they did not want CE credit.
- All pharmacists that completed the didactic training passed the competency assessment on the first attempt.
- Three pharmacists that did not complete the didactic training were not able to pass the competency assessment on the first attempt.
- There was no statistically significant difference in the mean competency assessment scores between pharmacists that completed the didactic training and pharmacists that did not complete the didactic training, regardless of years with DTM authorization. However, the small sample size limits the reliability of statistical analysis.

Acknowledgement

Chun Feng for statistical analysis.

References

1. 22 Tex. Admin. Code Sect. 295.13 (2021). [https://texreg.sos.state.tx.us/public/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&q=1&p_tac=&ti=22&pt=15&ch=295&rl=13](https://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&q=1&p_tac=&ti=22&pt=15&ch=295&rl=13).
2. Drug Therapy Management (DTM) Under Protocol Policy. MD Anderson Institutional Policy #CLN0528. 7/22/2020.