INTRODUCTION

In the Brody medical curriculum, a medical pharmacology course is delivered in the second-year medical curriculum. The medical pharmacology course content for each drug class includes indications for use, mechanism of action, metabolism, adverse effects, drug-drug interactions, and contradictions. However, as medical students enter the third- and fourth-year clinical rotations, other pertinent information such as dosing and ordering drugs in the electronic health record (EHR) become applicable skills for residency. These skills are not taught previously in the medical curriculum. The goal of an online clinical pharmacology module is to review content from the previous medical pharmacology course and add content to build skills for residency such as dosing and ordering in the EHR.

MATERIALS & METHODS

- Prescription errors lead to medical errors.
- New doctors are more than twice as likely to make an error in prescription than senior doctors.
- Online self-learning modules can improve prescribing competency.
- In North Carolina, 12.4% of the adult population have been diagnosed with diabetes.

RESULTS

Table 1. Plan for Data Collection and Analysis

<table>
<thead>
<tr>
<th>Data Source</th>
<th>Type of Data Collected</th>
<th>Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre/Post Knowledge Survey</td>
<td>Quantitative score</td>
<td>Paired t-test</td>
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<tr>
<td>Post Evaluation Survey</td>
<td>Quantitative and qualitative data</td>
<td>Descriptive statistics, ANOVA</td>
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</tbody>
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DISCUSSION

The goal of this research is to demonstrate significant knowledge acquisition by completion of the virtual module.

- The advantage of utilizing an online context is that learners can work asynchronously and independently through the module.
- There have been multiple online pharmacology modules published, but there has yet to be a module dedicated to second-, third- and fourth-year medical students with a focus on diabetic medications for both outpatient and inpatient therapy management.
- We hope to find that participants find the module easy to navigate. In the evaluation, the module can be considered as a future activity for the required curriculum, such as a flipped classroom or self-learning activity.

REFERENCES