



Impact of a Remediation Plan in a Pharmacotherapeutics Course Series

Katie Nault, PharmD, MBA, BCCCP, S. Mimi Mukherjee, PharmD, BCPS, CDCES, Cheryl R. Durand, PharmD, Dinesh Yogaratnam, PharmD, BCPS, BCCCP, Kristine C. Willett, PharmD, FASHP

Pharmacy Practice, School of Pharmacy Worcester/Manchester, Massachusetts College of Pharmacy & Health Sciences

BACKGROUND

- There are a variety of remediation strategies reported in the pharmacy literature, but no consensus on best practice^{1,2}
- Remediation may be challenging in an accelerated PharmD curriculum given the fast-paced nature and limited time between Fall, Spring, and Summer semesters
- Course coordinators were tasked with the development and implementation of a remediation plan for an accelerated year-round Pharmacotherapeutics course

OBJECTIVE

- To describe a remediation plan and outcome for a pharmacotherapeutics course series in an accelerated PharmD curriculum

METHODS

- Participants: students enrolled in their second year of a 3-year accelerated PharmD program taking Pharmacotherapeutics (n= 110)
- Exam results were assessed with and without the addition of remediation exam points to determine the efficacy of our intervention
- Remediation Plan:
 - Total possible regular exam points in the Fall semester was 105 points across 3 exams
 - Following each regular exam, the lowest performing items were identified for remediation
 - Faculty were asked to write remediation exam questions related to the lowest performing items and were asked to reteach the concepts during a remediation session
 - After the concepts were retaught, students had 30 minutes to review remediated material before taking a remediation exam
 - Up to 12 questions were included on the remediation exam and students could earn 0.25 bonus exam points per each remediation question answered correctly

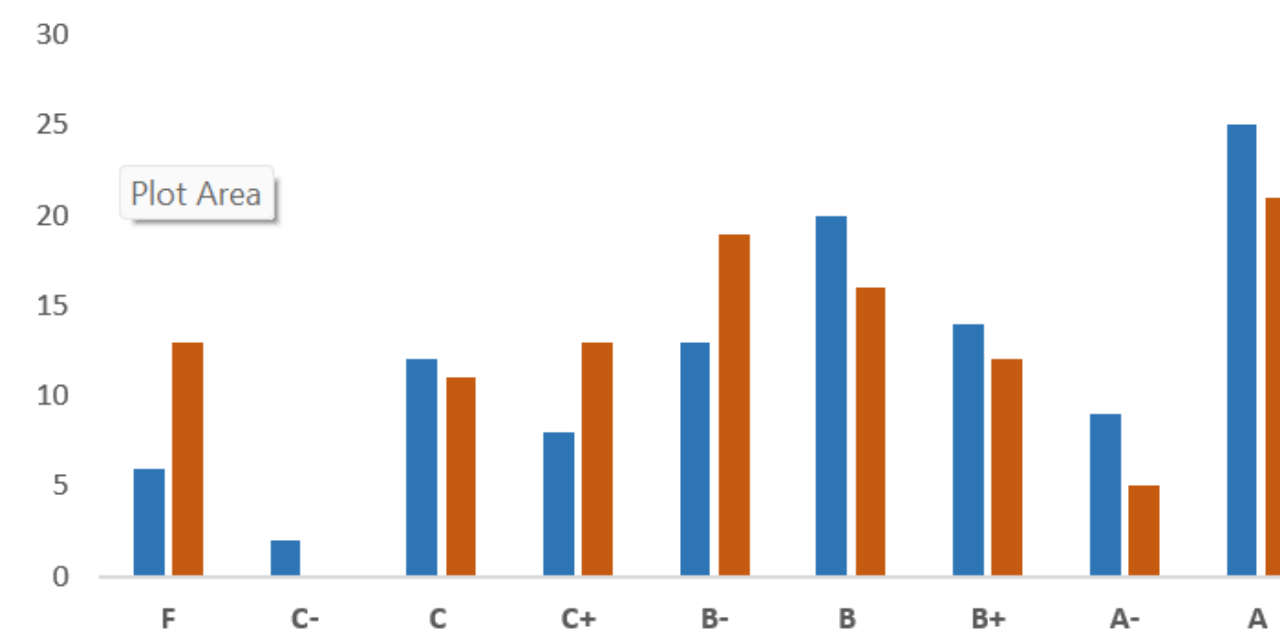
Regular exam administered

Up to 12 questions with lowest performance (< 70% correct) were chosen for remediation, and new remediation exam questions were written.

Remediation concepts were retaught and a remediation exam was administered to students

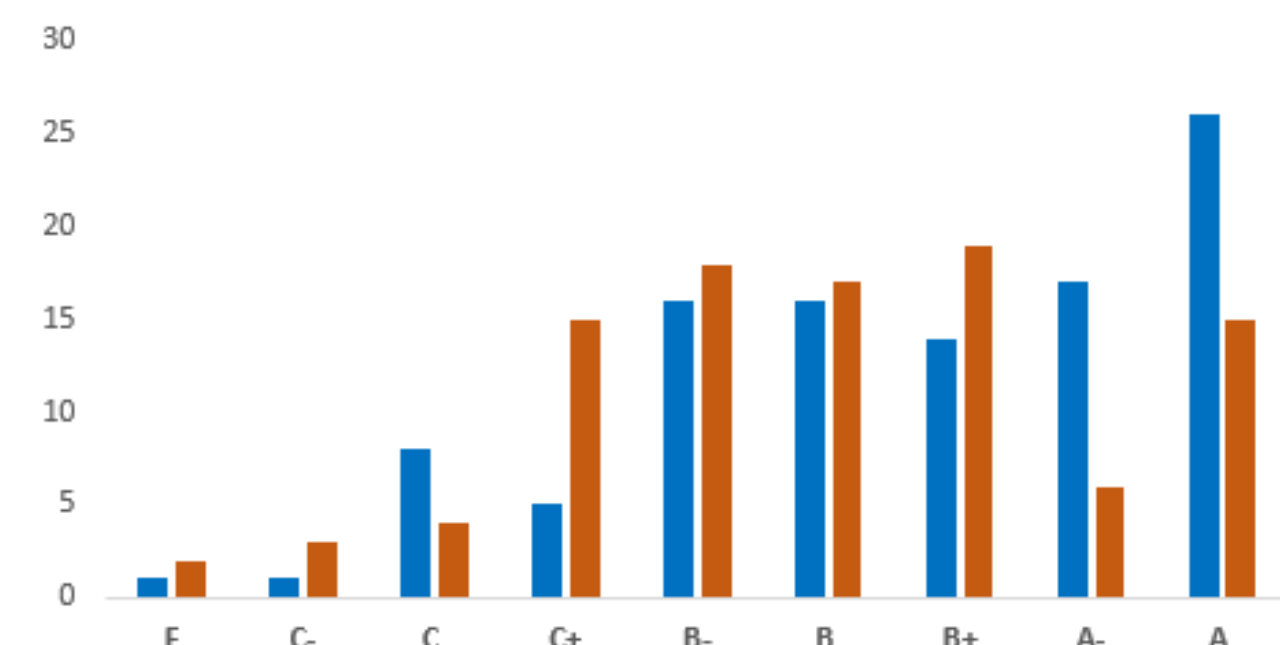
RESULTS

Figure 1: Fall 2023 Change in Course Grades



Key:
Blue = With Remediation
Orange = Prior to Remediation

Figure 2: Spring 2024 Change in Course Grades



DISCUSSION

Pros:

1. Students get the opportunity to earn up to 3 exam points back
2. Difficult concepts were retaught
3. By providing the opportunity for remediation, more students were able to pass each semester

Cons:

1. Added faculty workload of attending the remediation session to re-teach concepts as well as formatting new slides & writing new exam questions
2. Remediation covers the lowest performing questions, not necessarily student-specific incorrect answers
3. Students study for remediation in the midst of learning new material for the next exam

CONCLUSION

- An exam-specific remediation plan for an accelerated PharmD pharmacotherapeutics curriculum led to increased student progression across the course series

REFERENCES

1. Ward KL, et al. Retooling the Remediation Process: An Overview of One School's Process Overhaul. Am J Pharm Educ. 2023;87(12).
2. Chen JS, Matthews DE, Van Hooser J, Knockel LE, Lintner, K, Stoa M, et al. Improving the Remediation Process for Skills-based Laboratory Courses in the Doctor of Pharmacy Curriculum. Am J Pharm Educ. 2021 Aug; 85(7):8447.

Disclosures: The authors of this poster have nothing to disclose