

Objective

- Describe how Temple University School of Pharmacy (TUSP) faculty use technology to optimize teaching and learning in the Doctor of Pharmacy (PharmD) program

Methods

- A narrative description of teaching technologies available at TUSP:
 - Canvas Learning Management System (LMS)
 - Poll Everywhere
 - Panopto recordings
 - ExamSoft
 - COMP-MS

Results

Canvas LMS

- Used for all PharmD courses
- Materials posted for students to prepare for class, including readings, videos, and other resources
- Classroom materials posted including Power Point slides, handouts, and others
- Use of Canvas quizzes is widespread throughout courses in curriculum
- Discussion Board frequently used to encourage questions and other assignments to be shared with other students enrolled to help in preparation for assessments

Panopto

- Software used to record flipped lectures posted in advance of class in Canvas
- Lectures in all required courses recorded and posted to Canvas to be used as study tool
- Simultaneous display of Power Point, closed captioning, and voice recording
- Includes quizzes to assess students learning within the recording

Results

Panopto Recording

Vaughan-Williams Classification					
Class	Drug	MOA	Conduction Velocity	Refractory Period	Automaticity
Ia	Quinidine Procainamide Disopyramide	Na channel blockade	↓	↑	↓
Ib	Lidocaine Mexilitine		0/↓	↓	↓
Ic	Flecainide Propafenone		↓↓	↑	↓
II	Metoprolol Atenolol Esmolol Propranolol	β1-receptor blockade	↓	↑	↓
III	Amiodarone Dofetilide Ibutilide	K channel blockade	0	↑↑	0
IV	Verapamil Diltiazem		Ca ²⁺ blockade	↓	↓

Class one drugs are sodium channel blockers, and they are further broken up into Class one, A, B and C,

Poll Everywhere

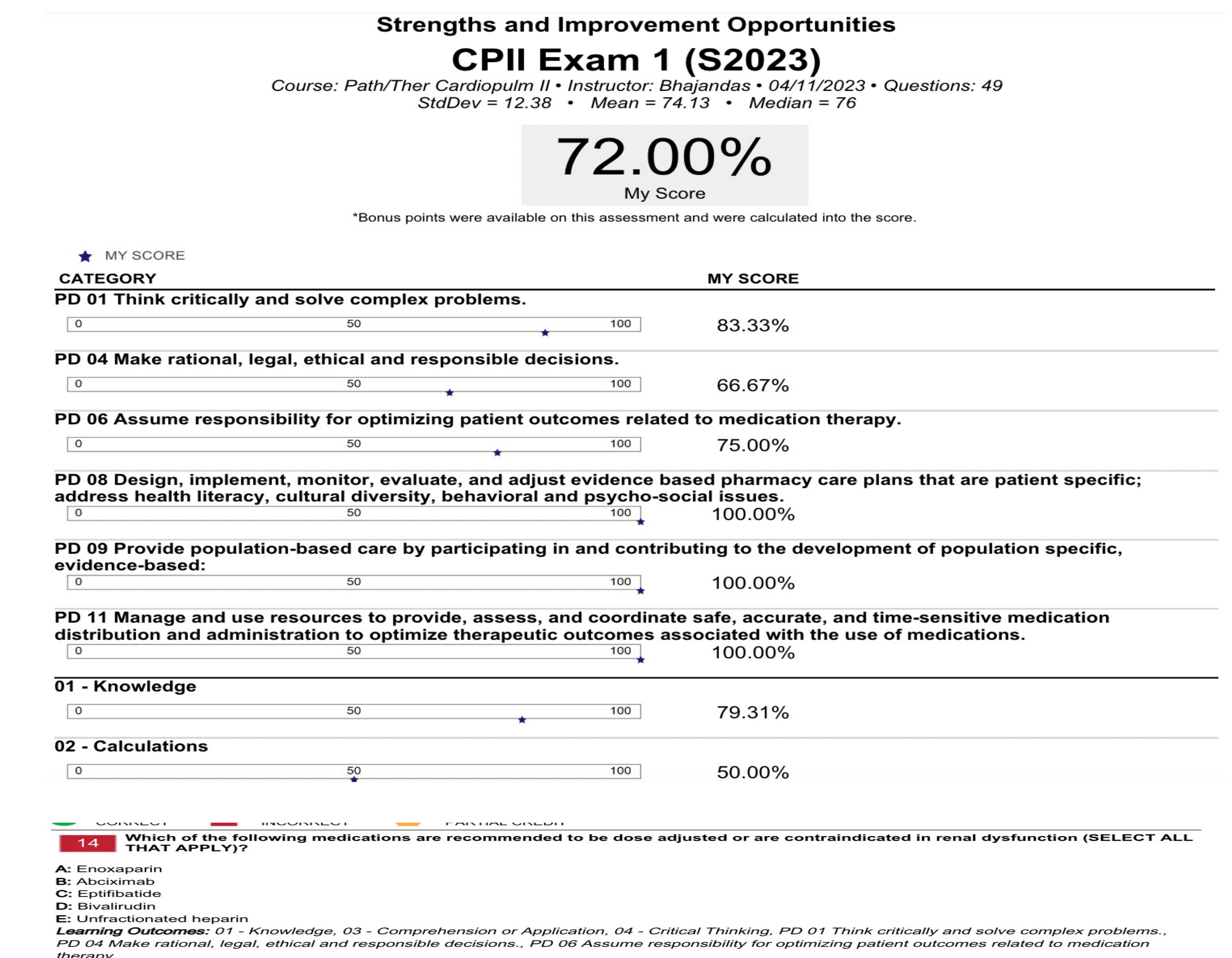
- Audience-response software integrated into Power Point
- Allows for in-class assessments

Which of the following agents is MOST likely to cause QT-prolongation?



Exam Soft

- All high stakes exams administered through ExamSoft program
- Allows for tagging questions to PharmD Educational Competencies, Bloom's level of knowledge



COMP-MS

- All PharmD students maintain online portfolio to track progress towards PharmD Educational Competencies
- Students develop and reflect on educational and professional goals
- Assists in professional identity formation
- Allows for individualized advising opportunities

Conclusions

- TUSP has incorporated several modalities of technology to improve the teaching and learning in the PharmD program