Although 5.2% of family physicians are sued for malpractice annually, there is no specific family medicine training or curriculum guidance on malpractice litigation. Other medical specialties have used mock trials to educate residents about malpractice litigation. We present the results of a collaboration with Penn State Dickinson School of Law (DSL) to develop a mock trial experience to fill a malpractice litigation training gap in our residency.

**Methods**

The Penn State Institutional Review Board deemed this retrospective single-site study exempt. The case used is based on a real malpractice suit; we used redacted copies of actual case documents. Third-year residents were given 8 hours of protected time scheduled to complete the mock trial itself. Trial preparation time came from existing administrative time. Residents were assigned as the defendant or as a witness. Law students served as counsel. Participants received preparatory material that included complaints, statements, and records, as well as articles on reducing malpractice risk and expert witness testimony. Each side’s team of law students and residents were required to meet for trial preparation.

The plaintiff was played by a standardized patient from Penn State Hershey Medical Center. Community volunteers served as jurors. Law school faculty acted as judge, and trials were held in a mock courtroom at DSL (Table 1). The mock trial included jury instructions, opening statements, case presentations, witness examination, closing arguments, and jury instructions.

After the verdict was read, faculty facilitated discussion with the jurors regarding their impressions of the case. Residents completed an assessment (Figure 1). We used descriptive statistics to describe data.
Table 1: Schedule of Mock Trial Day

| Time     | Activity                                                                                                                                                                                                 | Location                                                                                     |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 8:30 am  | Residents, law students, and standardized patient arrive early to finalize their case plan.                                                                                                              | Communal seating area adjacent to the mock court room                                         |
| 9:00 am  | Faculty and jurors arrive. Breakfast is provided at the site of the trial.                                                                                                                               |                                                                                               |
| 9:30 am  | Law professor assumes the role of judge and gives instructions to the jury. The case begins with opening statements, followed by plaintiff's case-in-chief, including defense cross-examination. | Mock court room                                                                               |
| 10:30 am | Defense case-in-chief, including cross-examination by plaintiff's counsel.                                                                                                                                |                                                                                               |
| 11:30 am | Closing arguments are presented and jury instructions are given.                                                                                                                                           |                                                                                               |
| 12:30 pm | Lunch is provided at the site of the trial.                                                                                                                                                              | Communal seating area adjacent to the mock court room                                         |
| 1:30 pm  | Jurors deliberate separately. Faculty, residents, and students debrief the experience.                                                                                                                   | Mock court room                                                                               |
| 2:00 pm  | Jurors provide a verdict and feedback facilitated by the law professor. They are thanked and dismissed.                                                                                                   |                                                                                               |
| 2:30 pm  | Faculty, residents and students debrief the experience. Key learning points are reinforced.                                                                                                               |                                                                                               |
|          | Residents complete anonymous paper assessment and evaluation.                                                                                                                                             |                                                                                               |

Figure 1: Mock Trial Assessment

Objectives:
- Participate in a simulated malpractice trial
- Recognize key elements necessary to merit a malpractice claim
- Identify key elements of clinical practice that may increase or decrease risk of a malpractice lawsuit
- Identify role played in by medical and legal professionals malpractice litigation

| Question                                                                 | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
|------------------------------------------------------------------------|----------------|-------|---------|----------|------------------|
| Experience met the above objectives                                    |                |       |         |          |                  |
| Material was at an appropriate level for Family Medicine Residents      |                |       |         |          |                  |
| (not too specialized or simple)                                         |                |       |         |          |                  |
| Effective method to deliver material                                   |                |       |         |          |                  |
| Experience contained new information or skills, or helped refresh my   |                |       |         |          |                  |
| existing knowledge                                                     |                |       |         |          |                  |
| This experience is an appropriate use of resident time                  |                |       |         |          |                  |
| Overall evaluation of this experience                                  | Poor           | Fair  | Neutral | Good     | Excellent        |

What elements are necessary for a lawsuit to be justified?

How can documentation increase or decrease risk of a lawsuit?

How can communication with the patient increase or decrease risk of a lawsuit?

Name two key points you learned from this experience.

Should this experience be offered to future residents?

How can this experience be improved?

Please provide an additional comments & suggestions below:
Results
Over 3 years and six trials, 22 residents participated with 100% survey completion. On a 5-point scale, residents reported that the experience met its objectives (4.6±0.9), presented material at an appropriate level (4.7±0.9), was an effective method of teaching (4.6±0.9), presented new information or refreshed existing knowledge (4.6±0.9), and was an appropriate use of time (4.5±1.0), with an overall evaluation of 4.9±0.3.

Residents did not demonstrate a good understanding of the elements necessary for a negligence lawsuit to be justified (Table 2); 72.7% of residents listed negligence as an element. The questions about how documentation and patient communication changes a risk of lawsuit did not yield cohesive themes. Several qualitative themes emerged from other free-text answers (Table 3), including the importance of proper documentation (86.4%), clear communication with patients (9.1%), self-assertion in the trial process (9.1%), and trial preparation (9.1%), as well as a better understanding of how trials function (9.1%). Suggestions for improvement included more time to prepare (22.7%), hold at better time of year (18.2%), provide more explicitly dedicated time to meet with the law team (13.6%), and make the event a multiyear process using dedicated didactic time (9.1%).

Discussion
Residents reported that they learned or reinforced important medicolegal concepts and that future residents would benefit from the mock trial experience. They did not distinguish the elements of negligence. Negligence is required for a lawsuit to be successful, but the question was to identify the elements of negligence: a duty must have been owed, the duty must have been breached, an injury was caused by the breach, and the injury must result in damages. Many residents recognized the need to show injury and causation, but few identified the need for breach of duty, and none identified the need to show that a duty was owed. This identifies a learning gap, as understanding these elements can change the structure of medical practice and the nature of physician-patient interactions.

Qualitative assessment of resident answers to how documentation and patient communication change the risk of lawsuit did not identify common themes. Free-text qualitative themes (Table 3) indicate the wide range of learning mock trials may support. Although residents’ responses to how documentation would impact the risk of a lawsuit were not illustrative, virtually all residents identified the importance of proper documentation and clear communication with patients.

Table 2: Understanding of Four Elements Necessary for a Lawsuit to be Justified

| What elements are necessary for a lawsuit to be justified? | Percent Responses (n=22) |
|----------------------------------------------------------|--------------------------|
| The correct answer is each of four elements of the broad concept of negligence: | |
| 1. A duty must be owed | 0 |
| 2. That duty must be breached | 13.6 |
| 3. An injury must be caused by the breach | 40.9 |
| 4. The injury must result in damages | 45.5 |
| The most common answer given was “negligence” | 72.7 |

Table 3: Qualitative Themes From Free-Text Answers

| Representative Resident Statements | Qualitative Themes | Percent Identifying Each Theme (n=22) |
|------------------------------------|-------------------|--------------------------------------|
| Documentation is an important part of medical practice (Document listed more than once) | The importance of good documentation | 86.4 (18.2) |
| Good patient communication gives the patient a voice in their care, reduces the risk of being sued, and includes documenting patient education and the follow-up plan. | The importance of patient communication | 9.1 |
| Be more assertive on the stand. | Be assertive at trial | 9.1 |
| Trial preparation takes a lot of time, but makes a huge difference in how the trial proceeds and how the jury votes. | Trial preparation is lengthy and important | 9.1 |
| Seeing how a trial works helped me understand how my patient notes were viewed in a courtroom. | Understanding trial function is useful | 9.1 |
| Less Common Themes | | |
| Know patient; edit auto text; communicate with lawyer; write out follow-up plan in note; include differential [in note]; we’ll likely be sued; think out worst case scenario, plan for same; we can be an expert witness; get good lawyers; know both sides of the argument; how things can be misinterpreted | Each 4.5 |
of documentation as a key learning point. They also learned to appreciate care and communication and the importance of clearly articulating a follow-up plan. These responses suggest that the importance of good practice management may be taught using mock trial. This would be a novel application of mock trial, which to date has focused on teaching trial preparation, ethics, and evidence-based medicine.12−14

The qualitative theme of being assertive at trial suggests that it may be meaningful to consider the mock trial experience from the perspective of developing professional self-esteem in residents. This may help residents cope with their fear of being sued, and with the emotional trauma experienced by physicians when they are sued. This could include adding a session on fear and professional self-esteem facilitated by a physician who has been sued.

The generalizability of our findings may be limited by our small sample size, single site, and program resources: a physically proximate law school willing to participate and a model patient compensated by our institution. However, remote programs may be able to overcome proximity with teleconferencing, use of young lawyers instead of law students, and unpaid volunteers (junior residents, other faculty, and community members) might serve as a plaintiff. Another limitation is that the data set does not include pre/post testing, which could help minimize social desirability bias. A strength of our study is that it covers 3 years of data, suggesting that the positive outcomes are stable over time.

In summary, our results suggest that mock trial may be an effective learning tool for family medicine residents. Future research might qualitatively evaluate residents’ learning related to patient communication and documentation and explore the use of mock trial to teach practice management strategies. Adding pre/post testing to better assess quantitative data and shifting the primary desired outcome to be professional development—in particular professional self-esteem—may also prove beneficial.

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