Patients with disabilities comprise 12-20% of the US population and suffer from lack of access to adequate and equitable healthcare. These disparities are aggravated by the fact that healthcare providers receive little training to prepare them to care for patients with disabilities. Medical students, residents, and attending physicians have demonstrated deficiencies in working knowledge of common forms of disability, such as cerebral palsy and learning disabilities. This can be addressed by integrating disability-related education throughout medical school.

**Curricular Approach:** Integrate disability-related content into the existing curriculum, including:
- Modification of books used in On Doctoring in the applicable Clinical Skills and Physical Exam syllabi
- Adaptation of a clinical reasoning case to include a patient with a disability
- Adding objectives to Problem-Based Learning cases to foster discussion on caring for patients with disabilities
- Arranging for a patient perspective panel for patients with a condition associated with chronic disability

**Research Approach:**
- All changes to the curriculum have been implemented for the Class of 2024.
- The class of 2023 had no intentional disability education added to their M1 year.
- A validated survey was given to the M1 Class (2024) before exposure to any disability-integrated curricular changes and to the M2 Class (2023) at the beginning of the Fall 2020 semester.
- This survey was designed to assess medical students' comfort levels in caring for patients with disabilities, with higher scores representing higher levels of comfort in a given situation.
- M2 students were also asked if they were satisfied or dissatisfied with the first-year curriculum with respect to its teachings on caring for patients with disabilities (Figure 3).

![Figure 1. Comparison of two clinical scenarios. Mean survey score indicating student comfort level was significantly higher for the scenario with a non-disabled patient compared to a disabled one. This was observed for both the first and second-year medical students (p=0.0002 and p=0.00), respectively.](image1)

**Medical Student Attitudes Towards Persons with Disabilities**

Please review the following 2 scenarios (A and B) and answer the questions regarding the scenarios. Please circle the appropriate number which best corresponds with how you feel about the statement.

**Scenario A:**
You enter the exam room. A middle-aged man and woman are there. He tells you he is experiencing chronic abdominal pain.

**Scenario B:**
You enter the exam room. A middle-aged man is seated in a wheelchair. Standing behind him is a woman of about the same age. The patient in the wheelchair appears to have spasticity in all 4 limbs. He greets you by saying "hello". His speech is somewhat garbled, though intelligible. The woman tells you that the patient is here because he is experiencing chronic abdominal pain.

<table>
<thead>
<tr>
<th>Medical Student Attitudes Towards Persons with Disabilities</th>
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<tbody>
<tr>
<td>Strategy</td>
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<tr>
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<tr>
<td>I have had experiences similar to scenario A or B.</td>
</tr>
<tr>
<td>In Scenario A or B, I would be comfortable examining the role of the man or the woman in providing the history of the complaint.</td>
</tr>
<tr>
<td>In Scenario A or B, I would be comfortable performing a physical exam on the patient.</td>
</tr>
<tr>
<td>In Scenario A or B, I would be comfortable establishing a differential diagnosis for the abdominal pain.</td>
</tr>
</tbody>
</table>

![Figure 2. Disability scenario questions from validated survey. Second-year students reported significantly higher mean scores for comfort associated with the non-disabled clinical scenario compared to first-year students (p=0.0067).](image2)

First- and second-year Geisel students were significantly more comfortable caring for a patient without disabilities. This difference was larger in the second-year cohort (Figure 1).

![Figure 3. Satisfaction with Year 1 disability-focused curriculum.](image3)

Second-year students reported their level of satisfaction with the M1 disability curriculum. The majority of students (67.7%) were either dissatisfied or very dissatisfied with the disability curriculum in the year before these disability-focused curricular changes were implemented.