COVID-19 disruption to family medicine residency curriculum: results from a 2020 US programme directors survey

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ABSTRACT

Objective  This research project examined the effects of the COVID-19 pandemic on the required curriculum in graduate medical education for family medicine residencies.

Design   Our questions were part of a larger omnibus survey conducted by the Council of Academic Family Medicine Educational Research Alliance. Data were collected from 23 September to 16 October 2020.

Setting  This study was set in the USA.

Participants  Emails were sent to 664 family medicine programme directors in the USA. Of the 312 surveys returned, 35 did not answer our questions and were excluded, a total of 277 responses (44%) were analysed.

Results  The level of disruption varied by discipline and region. Geriatrics had the highest reported disruption (median=4 on a 5-point scale) and intensive care unit had the lowest (median=1 on a 5-point scale). There were no significant differences for disruption by type of programme or community size.

Conclusion  Programme directors reported moderate disruption in family medicine resident education in geriatrics, gynaecology, surgery, musculoskeletal medicine, paediatrics and family medicine site during the pandemic. We are limited in generalisations about how region, type of programme, community size or number of residents influenced the level of disruption, as less than 50% of programme directors completed the survey.

INTRODUCTION

The COVID-19 pandemic has profoundly affected healthcare systems with shortages of personal protective equipment (PPE) and overloaded hospitals with severely ill patients. US medical students have had rotations cancelled in favour of virtual learning.1 Elective surgeries had been cancelled by many state governors.2 Nursing homes in the USA closed doors to outsiders due to the vulnerability of the elderly to the SARS-CoV-2 virus.3 The use of telehealth by physicians and patients has increased.4 Undoubtedly, this pandemic has affected family medicine resident training, but there is little evidence related to the impact on graduate medical education (GME).5 6

US residency programmes are certified by the Accreditation Council for Graduate Medical Education (ACGME). This organisation sets requirements for institutions and sponsored residency programmes to ensure standards across the USA. Guidance on common programme requirements include the environment for learning skills, knowledge and attitudes during residency.7 There are also family medicine-specific requirements which detail oversight, evaluation, personnel and the educational programme.8 Family medicine is a 3-year training programme in the USA. The curriculum is varied among all specialties of medicine with required hours and/or patient visit counts for the following rotations: hospitalised adult patients, emergency department, geriatrics, inpatient and emergency department paediatrics, ambulatory paediatrics, newborn, surgery, musculoskeletal medicine (which must include sports medicine), gynaecology, obstetrics and health system management. These are usually
done as block rotations of either 4 weeks or a month at a time. Each programme can design when in the 3 years of training any of these requirements is scheduled. ACGME also requires that family medicine residents have 40 weeks of continuity clinic at their assigned family medicine practice site each year.6

Surveys of US programme directors during the COVID-19 pandemic found high rates of changes made to residency programme curriculums in the specialties of oral surgery, paediatric gastroenterology, radiology, thoracic surgery urology and cardiology fellowship. These changes included redeployment of residents,10-12 suspension of surgical procedures,10-14 use of virtual didactics,11-14 decreased contact time with patients12-15 and concern about the negative impact on education,10-12 15 such as meeting case numbers. This research project will investigate the effects of the COVID-19 pandemic on education in family medicine residencies; specifically, the ACGME curriculum requirements for family medicine.

METHODS

Our questions were part of a larger omnibus survey conducted by the Council of Academic Family Medicine (CAFAM) Educational Research Alliance (CERA). The CAFAM, as an administrative committee, is made up of the leadership of four family medicine organisations: the Association of Departments of Family Medicine, the Association of Family Medicine Residency Directors (AFMRD), the North American Primary Care Research Group and the Society of Teachers of Family Medicine.16 CERA guides the specialty by providing leadership and vision in the arena of medical education research. CERA creates a way to complete medical education research, facilitates collaboration between researchers and provides mentoring to those whose projects are accepted.16 The CERA steering committee evaluated questions for consistency with the overall subproject aim, readability and existing evidence of reliability and validity. Pretesting was done on family medicine educators who were not part of the target population. Questions were modified following pretesting for flow, timing and readability.

The sampling frame for the survey was all ACGME-accredited US family medicine residency programme directors as identified by the AFMRD. Email invitations to participate were delivered with the survey using the online program SurveyMonkey. Two follow-up emails to encourage non-respondents to participate were sent weekly after the initial email invitation and a third reminder was sent 2 days before the survey closed. There were 693 programme directors at the time of the survey, 1 had no email address indicated (692), 28 had previously opted out of SurveyMonkey surveys or their emails were undeliverable. Therefore, the survey was emailed to 664 individuals. The survey contained a qualifying question to remove programmes that had not had three resident classes. Forty programme directors indicated that they did not meet criteria; these responses were removed from the sample, reducing the sample size to 624 and respondents to 312.

Our questions (online supplemental appendix A) for each required curriculum item in family medicine used a 1–5 scale with the following anchors: 1=no disruption, 2=mild disruption, 3=moderate disruption, 4=severe disruption and 5=suspended. The question regarding programme director being concern that COVID-19 would affect accreditation was on a 1–10 scale: 1=no concern, 2=little concern, 3=some concern, 4=moderate concern and 10=extraordinary concern.

The data collected on our questions were skewed; therefore, non-parametric tests were used. We provide descriptive assessment for the disruptions in curriculum as reported by programme directors. We used Kruskal-Wallis (KW) test to analyse if the ranks given to disruptions in a rotation were different among the demographic variables (region, type of programme, number of residents and community size). We provided descriptive analysis for programme directors being concern with accreditation and used KW test to analyse if there are differences between demographic variables for this variable. We used STATA V.14.2 (College Station, Texas, USA) for all analyses.

RESULTS

Of the 312 surveys returned, 35 responses were removed because none of our questions were answered. For one respondent who did not answer community size and number of residents, the missing value was imputed with the most common answer for that demographic item. Therefore, a total of 277 surveys were analysed. Demographics of the programme directors who responded are given in table 1. Because this was an anonymous survey, we are unable to report any of the demographics for the programme directors who did not respond.

The curriculum with the highest disruption was geriatrics (median=4) and the lowest disruption was intensive care unit (ICU) (median=1) (table 2). There was a statistically significant difference in the reported disruption to family medicine residency curricula (p<0.001, median=4). In subanalyses, type of programme and community size had no significant differences for the reported COVID-19 disruption of curricula. Disruptions reported by programme directors based on region had significant differences for several, but not all, required curricula (table 3). For number of residents, there was a significant difference for curriculum disruption only for the geriatrics (p<0.05) and newborn (p<0.05).

Programme directors’ concern for accreditation due to COVID-19 disruption had a median score of 4 (IQR 3–7). The majority did not have major concerns, as 66% had no concern to some concern for accreditation (1–5 on the scale) (figure 1). In fact, 44% had no to minimal concern (1–3 out of 10). A scale of 1–10 allows for better detection of variance in the responses, yet in subanalyses, there were not significant differences in concern based on type

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DISCUSSION
There is limited literature on how family medicine resident education was affected by the COVID-19 pandemic. Three themes emerge: decreased in-person clinical care, increased virtual didactics and disrupted rotations. One programme in Colorado noted many of their residents served as back-up providers for the hospital in case of a surge, so they did not have an assigned rotation.17 Clinic sessions and didactics were changed to virtual meetings, with residents charged to participate in more self-directed

Table 1 Continued

<table>
<thead>
<tr>
<th>Demographic</th>
<th>Categories</th>
<th>n (%)</th>
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</thead>
<tbody>
<tr>
<td>Demographic</td>
<td>Community size</td>
<td></td>
</tr>
<tr>
<td>Less than 30000</td>
<td>29 (10.5)</td>
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</tr>
<tr>
<td>30000 to 74999</td>
<td>49 (17.7)</td>
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<tr>
<td>75000 to 149999</td>
<td>55 (19.9)</td>
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<tr>
<td>150000 to 499999</td>
<td>68 (24.6)</td>
<td></td>
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<tr>
<td>500000 to 1 million</td>
<td>35 (12.6)</td>
<td></td>
</tr>
<tr>
<td>More than 1 million</td>
<td>41 (14.8)</td>
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<tr>
<td>Number of residents</td>
<td></td>
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<tr>
<td>&lt;19</td>
<td>106 (38.3)</td>
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<tr>
<td>19–31</td>
<td>128 (46.2)</td>
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<tr>
<td>&gt;31</td>
<td>43 (15.5)</td>
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</tbody>
</table>

Table 2

<table>
<thead>
<tr>
<th>Programme directors’ rank of disruption to curriculum due to COVID-19 (median and IQR) (p&lt;0.001; N=277)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Median</strong></td>
</tr>
<tr>
<td>Adult medicine</td>
</tr>
<tr>
<td>Emergency medicine</td>
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<tr>
<td>Family medicine practice site</td>
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<tr>
<td>Geriatrics</td>
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<tr>
<td>Gynaecology</td>
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<tr>
<td>ICU</td>
</tr>
<tr>
<td>Musculoskeletal</td>
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<tr>
<td>Newborn</td>
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<tr>
<td>Obstetrics</td>
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<tr>
<td>Paediatrics</td>
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<tr>
<td>Practice management</td>
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<tr>
<td>Surgery</td>
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</tbody>
</table>

1=no disruption, 2=mild disruption, 3=moderate disruption, 4=severe disruption and 5=suspended. 
ICU, intensive care unit.
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Learning. One academic medical department in Bronx, New York, during the first surge in March 2020 redeployed at-risk resident physicians to telehealth only and the others to primary care visits (prenatal care, paediatrics and reproductive health visits), hospitalist teams and/or labour and delivery at the hospital. They disbanded teams as the surge subsided and residents were reassigned to rotations with priority given to required curriculum. Outside of the USA, one programme in Qatar reported continuity clinics were closed, online learning was used for didactics, and resident exams for promotion were postponed. The residents also had elective rotations postponed, while the programme tried to keep as many core rotations as possible. In Europe, rotations and outpatient clinics were postponed or cancelled. In Nigeria, bedside teaching rounds were post- poned, and residents were suspended to maintain social distancing. Residents were also used digital and virtual technologies for education and competencies through direct patient care. The change to virtual didactics also raised concerns about the quality of education the residents received. Four region are described, the residents received. The literature is descriptive, but we quantify the disruption to education. Our research does investigate family medicine clinic site and rotation disruption, but we did not ask about disruption to didactics. The most disrupted curricula reported by family medicine programme directors were geriatrics, surgery, gynaecology, musculoskeletal and family medicine site. This follows what interruptions were geriatrics, surgery, gynaecology, musculoskeletal and family medicine site. This follows what interruptions were reported in the literature by residents. Table 3 shows the median values by region for disruption in curriculum due to COVID-19 (statistically significant differences only) (N=277).

<table>
<thead>
<tr>
<th>Region (States)</th>
<th>n</th>
<th>Geriatrics</th>
<th>Gynaecology</th>
<th>Musculoskeletal</th>
<th>Newborn</th>
<th>Obstetrics</th>
<th>Paediatrics</th>
<th>Practice management</th>
<th>Surgery</th>
</tr>
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<tbody>
<tr>
<td>New England (New Hampshire, Massachusetts, Maine,</td>
<td>11</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>0.013</td>
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<tr>
<td>Vermont, Rhode Island, Connecticut)</td>
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<tr>
<td>Middle Atlantic (New York, Pennsylvania, New Jersey)</td>
<td>45</td>
<td>5</td>
<td>4</td>
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<td>3</td>
<td>3</td>
<td>0.0017</td>
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<tr>
<td>South Atlantic (Puerto Rico, Florida, Georgia, South</td>
<td>44</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0.014</td>
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<td>Carolina, North Carolina, District of Columbia, West</td>
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<td>Virginia, Delaware, Maryland)</td>
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<tr>
<td>East South Central (Kentucky, Tennessee, Mississippi,</td>
<td>16</td>
<td>4</td>
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<td>0.0017</td>
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<td>Alabama)</td>
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<tr>
<td>East North Central (Wisconsin, Michigan, Ohio, Indiana,</td>
<td>48</td>
<td>4.5</td>
<td>3</td>
<td>3.5</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>0.0014</td>
<td>4</td>
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<tr>
<td>Illinois, Indiana)</td>
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<tr>
<td>West South Central (Oklahoma, Arkansas, Louisiana,</td>
<td>24</td>
<td>4</td>
<td>3.5</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>1.5</td>
<td>3.5</td>
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<td>Texas)</td>
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<td></td>
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<tr>
<td>West North Central (North Dakota, Minnesota, South</td>
<td>28</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Dakota, Iowa, Nebraska, Kansas, Missouri)</td>
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<tr>
<td>Mountain (Montana, Idaho, Wyoming, Nevada, Utah,</td>
<td>26</td>
<td>3.5</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Arizona, Colorado, New Mexico)</td>
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<td></td>
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<tr>
<td>Pacific (Washington, Oregon, California, Alaska,</td>
<td>35</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
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<tr>
<td>Hawaii)</td>
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</tbody>
</table>

P value 0.013 ≤0.0001 ≤0.0001 ≤0.0001 0.0017 0.0014 0.018 ≤0.0001

1=no disruption, 2=mild disruption, 3=moderate disruption, 4=severe disruption and 5=suspended.

Figure 1
Programme directors (PDs) concern for accreditation due to COVID-19 disruptions (scale 1–10)
(N=277): 1=no concern, 3=little concern, 5=some concern, 7=moderate concern and 10=extraordinary concern.
occurred in the US healthcare system during COVID-19, namely, senior care facilities closing to outsiders, surgeries being cancelled and outpatient visits decreasing due to stay at home orders. We found the least disturbed family medicine curricula reported were obstetrics, newborn, practice management and surprisingly adult medicine, ICU and emergency medicine. If family medicine residents were called on to take care of severely ill patients during COVID-19 in the hospital, their rotation may have been changed to adult medicine, emergency medicine or ICU. That additional experience may have a positive connotation for the programme director, and therefore, make the disruption seem less severe. We are unable to measure that as our scale did not have positive or negative descriptors for the type of disruption that occurred.

Table 4
Programme directors concern for accreditation (scale 1–10) due to COVID-19 disruption by region (p=0.008; N=277)

<table>
<thead>
<tr>
<th>Region</th>
<th>n</th>
<th>Median</th>
<th>IQR</th>
</tr>
</thead>
<tbody>
<tr>
<td>New England (New Hampshire, Massachusetts, Maine, Vermont, Rhode Island, Connecticut)</td>
<td>11</td>
<td>3</td>
<td>2–3</td>
</tr>
<tr>
<td>Middle Atlantic (New York, Pennsylvania, New Jersey)</td>
<td>45</td>
<td>6</td>
<td>4–7</td>
</tr>
<tr>
<td>South Atlantic (Puerto Rico, Florida, Georgia, South Carolina, North Carolina, Virginia, District of Columbia, West Virginia, Delaware, Maryland)</td>
<td>44</td>
<td>3</td>
<td>1–7</td>
</tr>
<tr>
<td>East South Central (Kentucky, Tennessee, Mississippi, Alabama)</td>
<td>16</td>
<td>4</td>
<td>3–7</td>
</tr>
<tr>
<td>East North Central (Wisconsin, Michigan, Ohio, Indiana, Illinois)</td>
<td>48</td>
<td>5</td>
<td>3–7</td>
</tr>
<tr>
<td>West South Central (Oklahoma, Arkansas, Louisiana, Texas)</td>
<td>24</td>
<td>3.5</td>
<td>3–5</td>
</tr>
<tr>
<td>West North Central (North Dakota, Minnesota, South Dakota, Iowa, Kansas, Missouri)</td>
<td>28</td>
<td>3</td>
<td>1.5–7</td>
</tr>
<tr>
<td>Mountain (Montana, Idaho, Wyoming, Nevada, Utah, Arizona, Colorado, New Mexico)</td>
<td>26</td>
<td>3</td>
<td>1–5</td>
</tr>
<tr>
<td>Pacific (Washington, Oregon, California, Alaska, Hawaii)</td>
<td>35</td>
<td>5</td>
<td>3–7</td>
</tr>
</tbody>
</table>

There are several limitations to our study. The response rate was only 50%, therefore, the findings may not represent all US family medicine GME. Each programme has its own curricular design for the required rotations and we are unable to account for this in our study. The timing of the CERA survey is also a constraint to the generalisability of our study to the entire pandemic. This research is a snapshot in the programme directors’ experience up to the survey date, but case counts worsened with a winter surge in the USA. A follow-up survey to programme directors could evaluate if programmes still had education disruptions as the pandemic continues. We also specifically asked for programme directors to assess the disruption at the height of the pandemic. It is possible that adaptations had already occurred in the curriculum by the fall of 2020 and they reported how their programmes were doing at the time of the survey. This would make our results falsely lowered.

Understanding the disruptions and perceived consequences of this pandemic may aid in future planning for long-term disturbances in family medicine residency education. More manuscripts will likely be written about how medical educators adjusted their programmes due to the COVID-19 pandemic. It will be interesting to see how many of these changes continue in family medicine GME. Objective outcomes of the affected residents should be considered. The in-training exam scores could be studied to see if the pandemic had effects on subject area or overall scores. Future projects could compare board pass rates of family medicine graduates during this pandemic and those of previous years. Programme directors will likely do this for their programme, but as our findings point out, there will likely be regional variations.

CONCLUSION

There was significant variation in reported disruptions due to the COVID-19 pandemic for the required ACGME curriculum in US family medicine programmes. The
most disrupted curricula (geriatrics, surgery and family medicine practice site) reflect some of the same disruptions that occurred in healthcare systems in the USA due to the pandemic. A majority of programme directors were confident that the pandemic would not create accreditation issues. The regional differences in the disruption and concern for accreditation were similar to the region where the initial COVID-19 surge occurred. These disruptions in family medicine curriculum are important to programme faculty and administrators, but with <50% response rate, generalisability of our report may be limited.

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Contributors AE: Concept, survey questions, writing. JF: Concept, survey questions, writing, editing, statistical analysis, corresponding author. AGMT: Mentor from CEREA, editing.

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Competing interests None declared.

Patient consent for publication Not required.

Ethics approval The project was approved by the American Academy of Family Physicians Institutional Review Board in September 2020. Data were collected from 23 September 23 to 16 October 2020.

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement Data may be obtained from a third party and are not publicly available.

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REFERENCES


Appendix A. CERA questions

**Demographic questions** used for our study

Please describe the type of program you direct:
- University-Based
- Community-Based, University-Affiliated
- Community-Based, Non-Affiliated
- Military
- Other (please specify)

What state is your program located?
- New England (NH, MA, ME, VT, RI, or CT)
- Middle Atlantic (NY, PA, or NJ)
- South Atlantic (PR, FL, GA, SC, NC, VA, DC, WV, DE, or MD)
- East South Central (KY, TN, MS, or AL)
- East North Central (WI, MI, OH, IN, or IL)
- West South Central (OK, AR, LA, or TX)
- West North Central (ND, MN, SD, IA, NE, KS, or MO)
- Mountain (MT, ID, WY, NV, UT, AZ, CO, or NM)
- Pacific (WA, OR, CA, AK, or HI)

What is the approximate size of the community in which your program is located?
- Less than 30,000
- 30,000 to 74,999
- 75,000 to 149,000
- 150,000 to 499,999
- 500,000 to 1 million
- More than 1 million

How many residents (total complement) were in your program as of July 2020?
- < 19
- 19 - 31
- > 31

**Our questions**

Please rate disruption to required ACGME curricular experiences for your program during the height of the COVID-19 pandemic.
- 1=no disruption, 2=mild disruption, 3=moderate disruption, 4=severe disruption and 5=suspended
  - Adult medicine
  - Family medicine practice site
  - Emergency medicine
  - Geriatrics
  - Gynecology
  - ICU
  - Musculoskeletal
  - Newborn
  - Obstetrics
  - Pediatrics

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Practice management
Surgery

On a scale 1-10, what is your concern that the disruption in your residents’ education during the COVID-19 pandemic will impact your ACGME accreditation?
1=no concern
2
3=little concern
4
5=some concern
6
7=moderate concern
8
9
10=extraordinary concern