



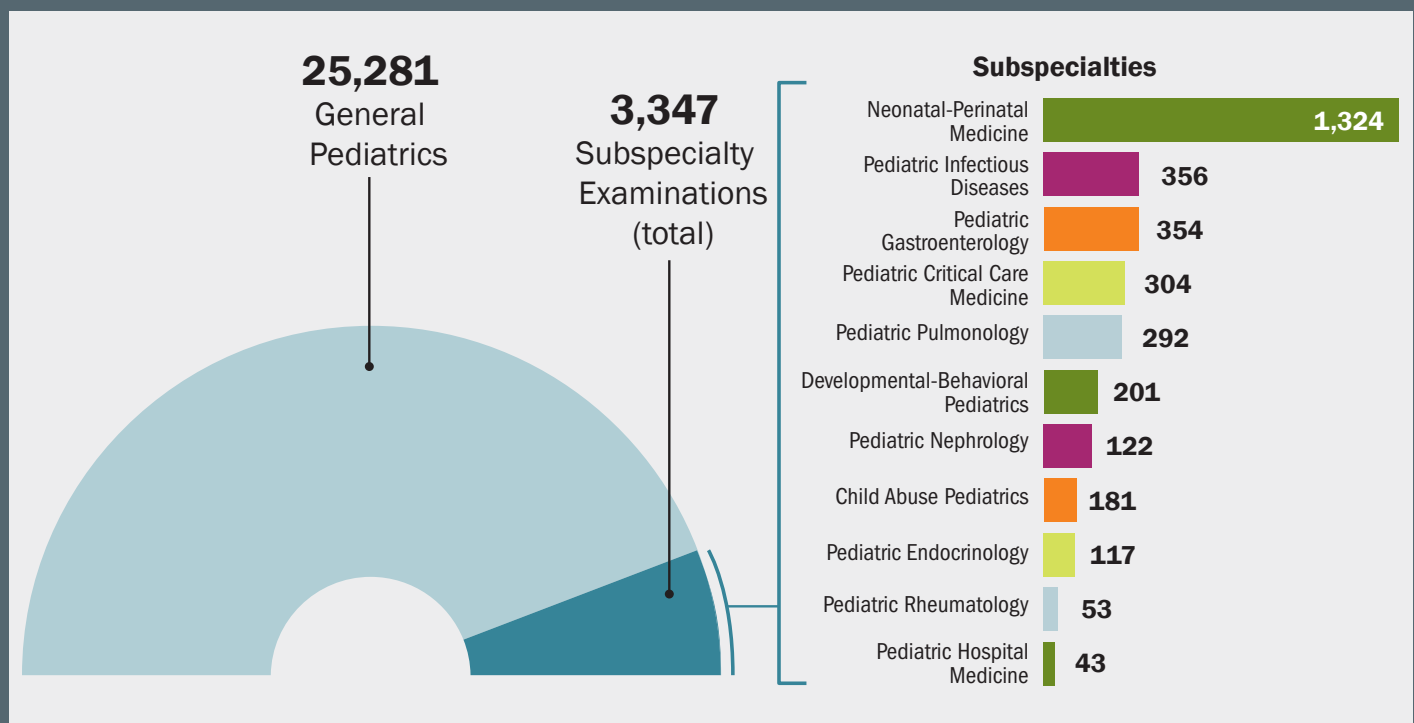
2021

A Brief Review of Participation in MOCA-Peds in 2021

With comparisons to data from 2020 where possible

In 2021, the American Board of Pediatrics (ABP) continued the Maintenance of Certification Assessment for Pediatrics (MOCA-Peds) program. MOCA-Peds is an online, non-proctored longitudinal assessment of pediatric medical knowledge developed as an alternative to the proctored exam given in a secure testing center. Achieving a passing score in MOCA-Peds during one's Maintenance of Certification (MOC) cycle meets the Exam requirement (Part 3) and provides Self-Assessment (Part 2) credit.

2021 MOCA-Peds Cognitive Exam (Part 3) Participation by Exam Area*



* Includes MOCA-Peds Exam (Part 3) participants who answered at least 80% of all available questions. Source: ABP Certification Management System.

Almost 39,000 pediatricians were eligible to participate in MOCA-Peds for Part 3 credit in 2021.

- 25,281 pediatricians (73.4% of total eligible) completed 80% or more of available questions in MOCA-Peds for General Pediatrics. This was an increase of over 18,000 from 2020. This increase was anticipated as individuals rotate into MOCA-Peds.
- 3,347 pediatric subspecialists (77.9% of total eligible) completed 80% or more of available questions in MOCA-Peds in one of the eleven subspecialty examinations offered in 2021. This was an increase of 2,278 participants from 2020. See table below for more details. The number of subspecialists participating in subspecialty exams is expected to increase as MOC cycles continue to renew each year and additional subspecialty exams become available.

These statistics do not account for duplications of individuals taking MOCA-Peds in more than one area.

2021 MOCA-Peds Exam (Part 3) Question Completion Rates by Exam Area

MOCA-Peds was offered across numerous exam areas including those certified in General Pediatrics and in the 11 pediatric subspecialties offered in 2021 (Child Abuse Pediatrics, Developmental-Behavioral Pediatrics, Neonatal-Perinatal Medicine, Pediatric Critical Care Medicine, Pediatric Endocrinology, Pediatric Gastroenterology, Pediatric Hospital Medicine, Pediatric Infectious Diseases, Pediatric Nephrology, Pediatric Pulmonology and Pediatric Rheumatology). Eligibility to participate was determined based on each pediatrician's MOC cycle.

The majority of participants in MOCA-Peds, regardless of exams areas offered, completed 80% or more questions administered in 2021 (see below).

	Total number eligible to participate	Answered one or more questions	Answered at least 80% of questions	Answered all questions
General Pediatrics	34,684	28,193 81%	25,281 73%	24,932 72%
Child Abuse Pediatrics	154	138 90%	122 79%	121 79%
Developmental-Behavioral Pediatrics	255	225 89%	201 79%	199 78%
Neonatal-Perinatal Medicine	1,683	1,496 89%	1,324 79%	1,319 78%
Pediatric Critical Care Medicine	386	351 91%	304 79%	298 77%
Pediatric Endocrinology	151	137 91%	117 77%	117 77%
Pediatric Gastroenterology	454	403 89%	354 78%	353 78%
Pediatric Hospital Medicine	50	48 96%	43 86%	42 84%
Pediatric Infectious Diseases	488	410 84%	356 73%	351 72%
Pediatric Nephrology	240	212 88%	181 75%	177 74%
Pediatric Pulmonology	370	330 89%	292 79%	291 79%
Pediatric Rheumatology	68	62 91%	53 78%	53 78%

Source: ABP Certification Management System.

Participation Demographics: Exam (Part 3)*

Gender	Medical School Location	Age
Female	American Medical School Graduate	<=39 19%
		40-49 34%
		50-59 30%
		60-69 15%
		70+ 2%
Male	International Medical School Graduate	

* Includes MOCA-Peds Exam (Part 3) participants in General Pediatrics and the 11 available subspecialties who answered at least 80% of all available questions. Source: ABP Certification Management System.

Percent Currently Meeting Passing Standard by Exam Area and Questions Answered

The following figure provides a breakdown of the percent of pediatricians currently meeting the passing standard in MOCA-Peds in 2021 (i.e., achieved a scaled score of 180 or above across all questions offered that year). **The data reflected below are not the cumulative passing rates for all participants. Final exam scores are calculated over a period of four years, with the four lowest-scoring or skipped quarters being dropped automatically for each individual. Two additional quarters were dropped in 2020 due to the impact of COVID-19 on health care.**

Exam Area	Answered at least 80% of questions	Answered all questions
General Pediatrics	95%	96%
Child Abuse Pediatrics	98%	98%
Developmental-Behavioral Pediatrics	96%	95%
Neonatal-Perinatal Medicine	100%	100%
Pediatric Critical Care Medicine	93%	94%
Pediatric Endocrinology	91%	91%
Pediatric Gastroenterology	91%	91%
Pediatric Hospital Medicine	100%	100%
Pediatric Infectious Diseases	96%	96%
Pediatric Nephrology	87%	88%
Pediatric Pulmonology	97%	97%
Pediatric Rheumatology	96%	96%

Source: ABP Certification Management System.

Includes all MOCA-Peds participants answering at least 80% of their MOCA-Peds questions in General Pediatrics and the 11 available subspecialties.

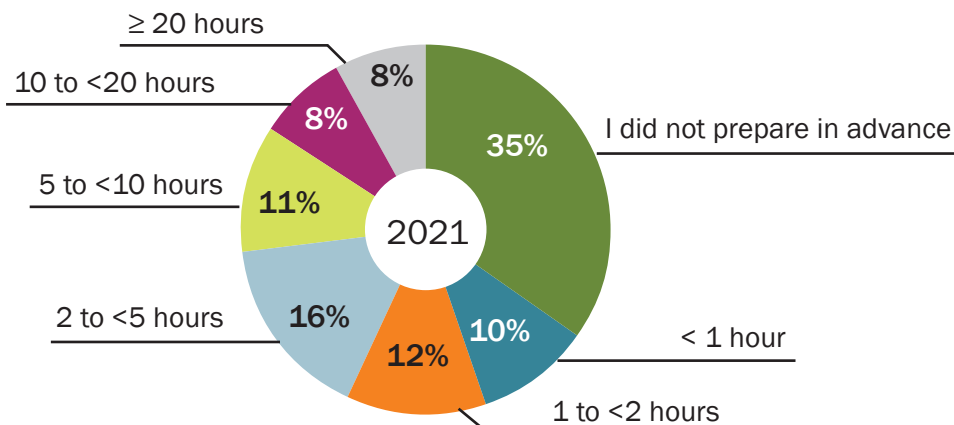
More information about scoring can be found at: www.abp.org/mocapeds/moca-peds-scoring.

Feedback

Reflecting on your experience with MOCA-Peds in 2021, how much time did you spend preparing to answer questions?

E.g., studying, reviewing/reading featured readings or other literature, past questions.

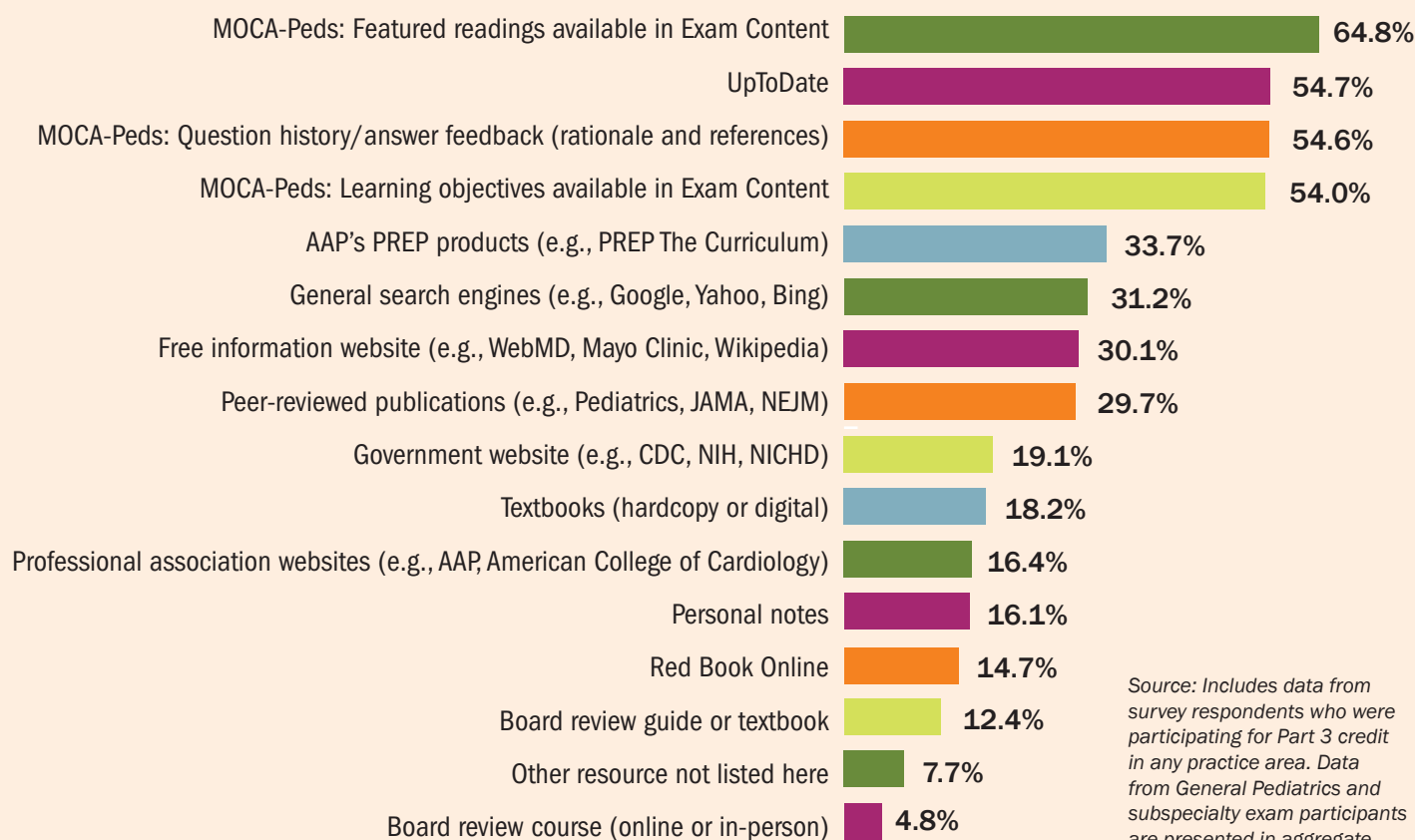
The majority of participants (~73%) studied less than five hours before starting MOCA-Peds questions. Note that those who selected "I did not prepare in advance" were not offered the study resource question on the following page.



Source: Includes data from survey respondents who were participating for Part 3 credit in any practice area. Data from General Pediatrics and subspecialty exam participants are presented in aggregate.

Please indicate the resources you used to prepare to answer MOCA-Peds in 2021?

Note: Participants could select all that apply, so the percentages will add up to more than 100%.



What reference material(s) did you use while answering MOCA-Peds questions in 2021?

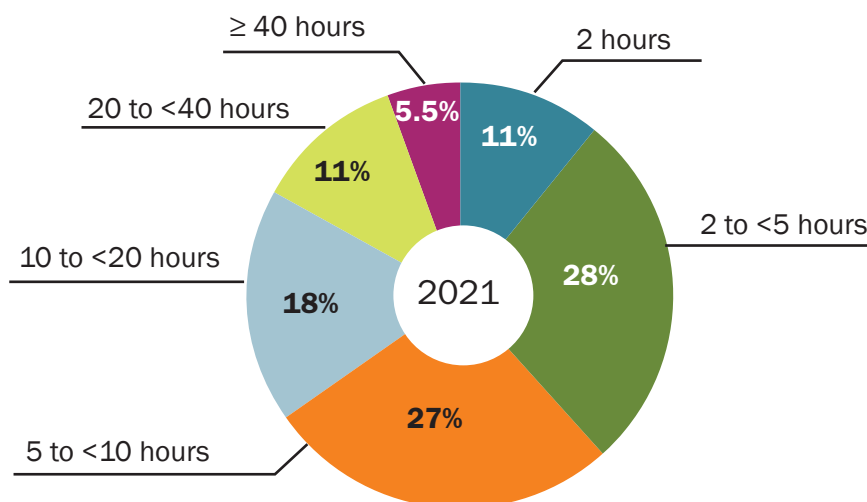
Note: Participants could select all that apply, so the percentages will add up to more than 100%.



Reflecting on your participation in MOCA-Peds in 2021, please estimate the total amount of time you spent doing MOCA-Peds?

E.g., including study preparation time, looking up references, answering questions, reviewing feedback.

Time spent participating in MOCA-Peds — whether studying material prior to participation or in taking questions — varied greatly among participants. Those certifying in two or more areas reported more time spent participating than those only certifying in one area, which was not surprising. Overall, 66% of pediatricians took less than 10 hours, while 34% took 10 or more hours to complete MOCA-Peds in 2021.



Source: Includes data from survey respondents who were participating for Part 3 credit in any practice area. Data from General Pediatrics and subspecialty exam participants are presented in aggregate.

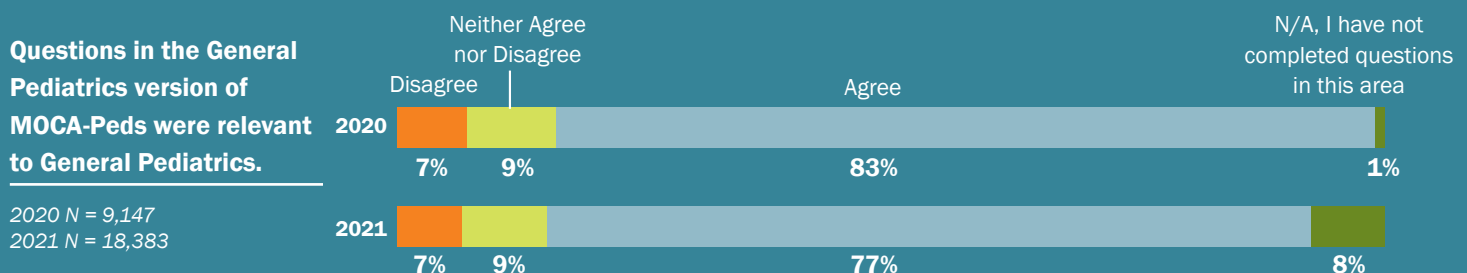
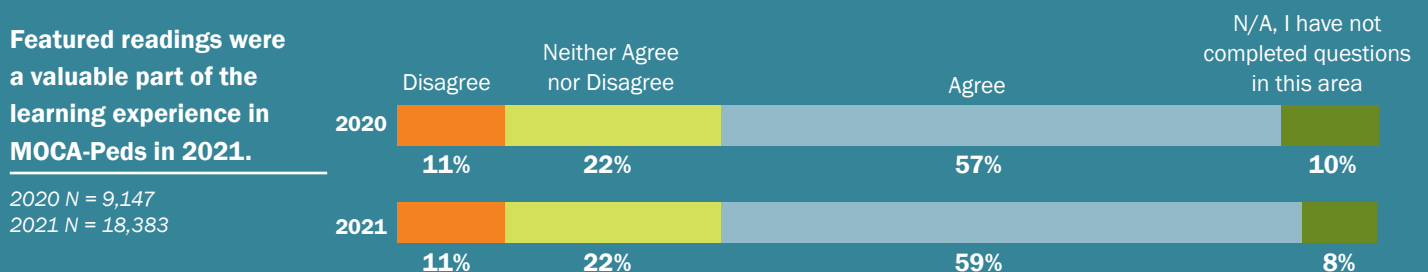
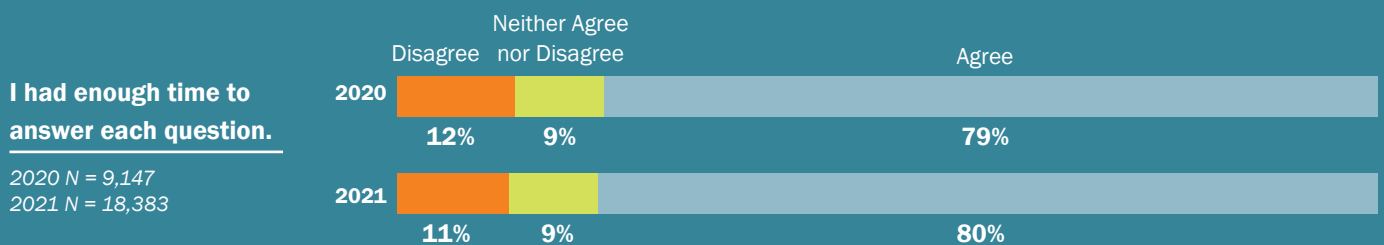
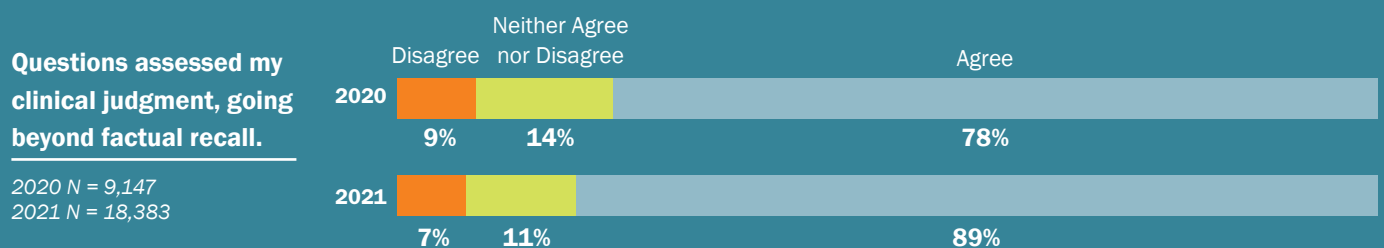
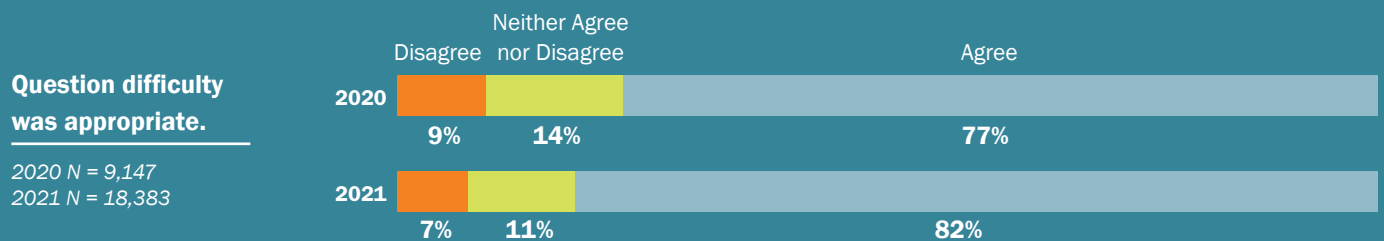
Reflecting on your participation in MOCA-Peds over time, please complete the following statement(s) with the most appropriate ending.

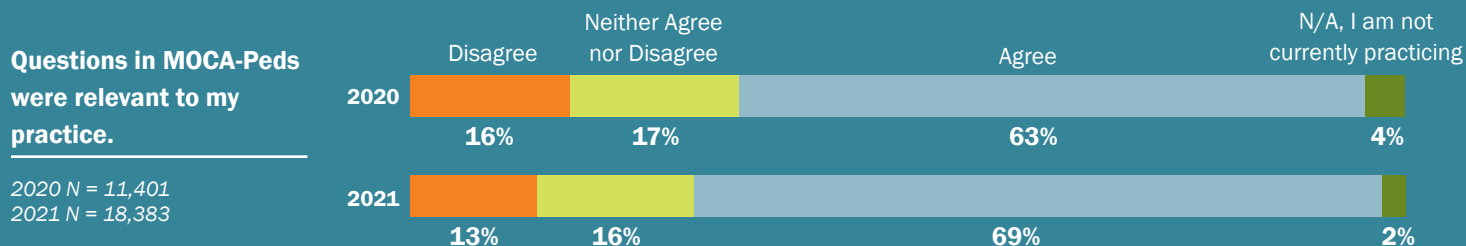
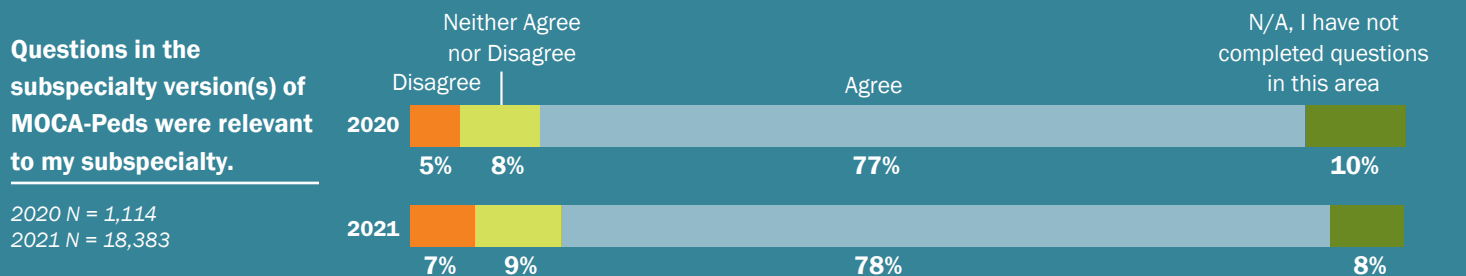
	Decreased	Neither increased nor decreased	Increased
The ease of using the MOCA-Peds system has...	5.1%	37.2%	57.7%
My comfort level answering questions in MOCA-Peds has...	4.8%	30.9%	64.3%
The amount of time I spend on MOCA-Peds has...	19.2%	67.8%	13.0%
My ability to fit MOCA-Peds into my regular schedule has...	12.4%	59.1%	28.6%
The amount I have learned by participating has...	2.8%	37.3%	59.9%

Source: The survey response scale has been collapsed to a 3-point scale with Decreased comprised of the responses of Significantly decreased and Decreased, and Increased comprised of Increased and Significantly increased. The figure includes data from 2021 survey respondents who completed all quarters in MOCA-Peds and were participating for Part 3 credit, regardless of exam area. Data from General Pediatrics and subspecialty exam participants are presented in aggregate.

Feedback on MOCA-Peds Questions

Survey respondents were asked to provide their level of agreement with a series of items designed to gather feedback on pediatricians' experience with MOCA-Peds, including question difficulty and relevance. Responses are shown for 2020 and 2021 for each item.





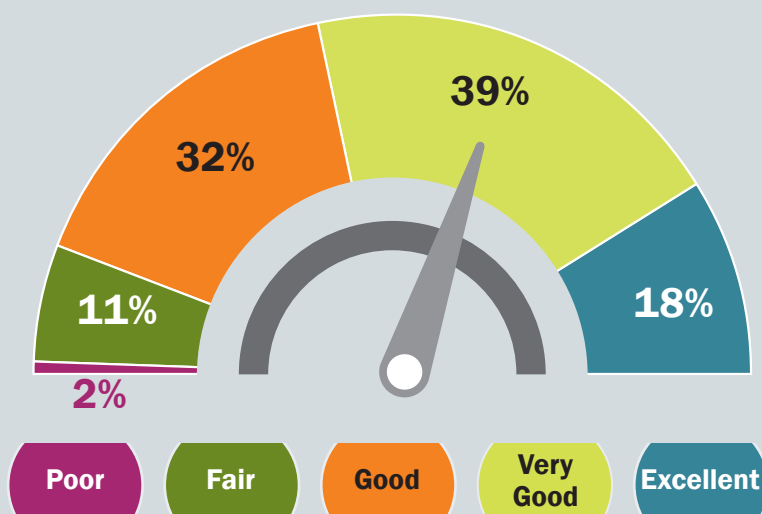
NOTE: The survey response scale has been collapsed to a 3-point scale with Disagree comprised of the responses of Strongly Disagree and Disagree, and Agree comprised of Agree and Strongly Agree. The figure includes data from survey respondents who completed all quarters in MOCA-Peds and were participating for Part 3 credit, regardless of their exam area. Data from General Pediatrics and subspecialty exam participants are presented in aggregate.

Overall Quality of the Questions in MOCA-Peds

Survey respondents were asked to rate the overall quality of MOCA-Peds questions based on their experience participating in 2021.*

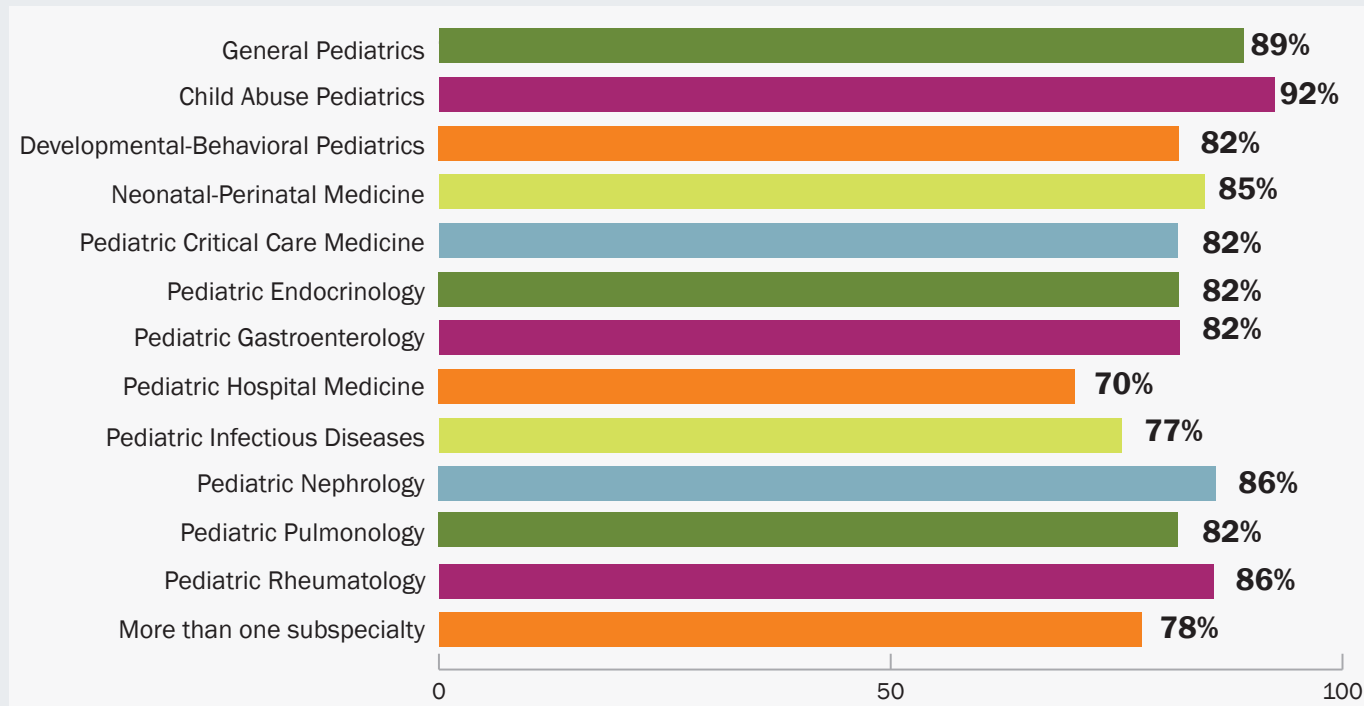
The majority of respondents (56.7%) indicated the quality of questions was “Very Good” or “Excellent,” with more than 88.2% indicating MOCA-Peds questions were “Good” or better. This was up from 51% and 86% respectively in 2020.

* Includes data from survey respondents who were participating for Part 3 credit in any practice area. Data from General Pediatrics and subspecialty exam participants are presented in aggregate.



Quality of the Questions in MOCA-Peds by Exam Area

Survey respondents were asked to rate the overall quality of MOCA-Peds questions based on their experience participating in 2021. Below, we have categorized responses by each participant's exam area.*



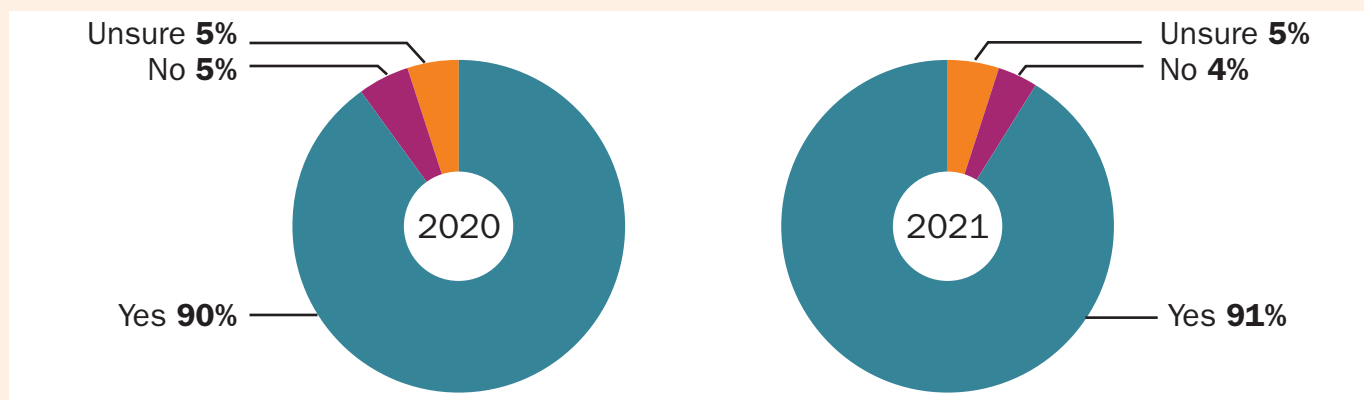
* Includes data from survey practice area respondents who were participating for Part 3 credit by exam area. Data presented show the percentage of participants by each exam area who indicated the quality of the exam was "Good", "Very Good", or "Excellent." The percentage reported for General Pediatrics includes those who were only participating in MOCA-Peds General Pediatrics and not also participating in a pediatric subspecialty.

Learning and Applying Knowledge

Survey respondents were asked if they learned, refreshed, or enhanced their knowledge from participation in MOCA-Peds in 2021. A follow-up question was then asked to gauge if and how pediatricians were able to apply what they learned to their clinical practice.

Did you learn, refresh, or enhance your medical knowledge based on participating in MOCA-Peds?

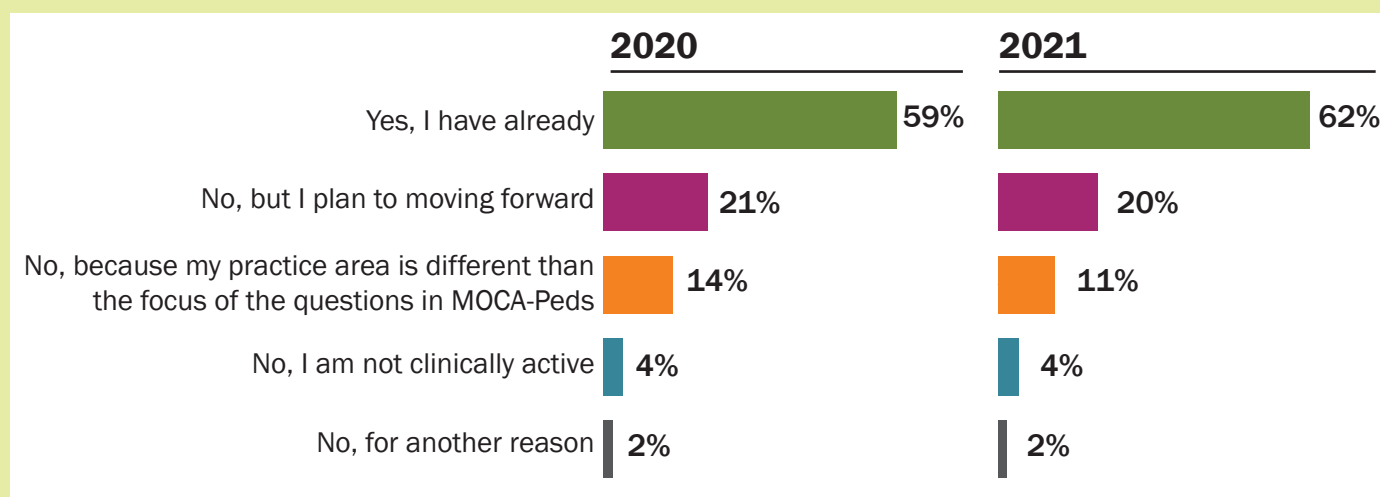
The majority of respondents (91%) indicated they had learned, refreshed, or enhanced their medical knowledge as a result of participating in MOCA-Peds.* This is roughly equivalent to what pediatricians said in 2020 (90%).



* Includes data from survey respondents who completed all quarters in MOCA-Peds and were participating for Part 3 credit, regardless of exam area. Data from General Pediatrics and subspecialty exam participants are presented in aggregate due to small sample sizes in some subspecialties.

Were you able to apply any of what you learned from MOCA-Peds in your clinical practice?

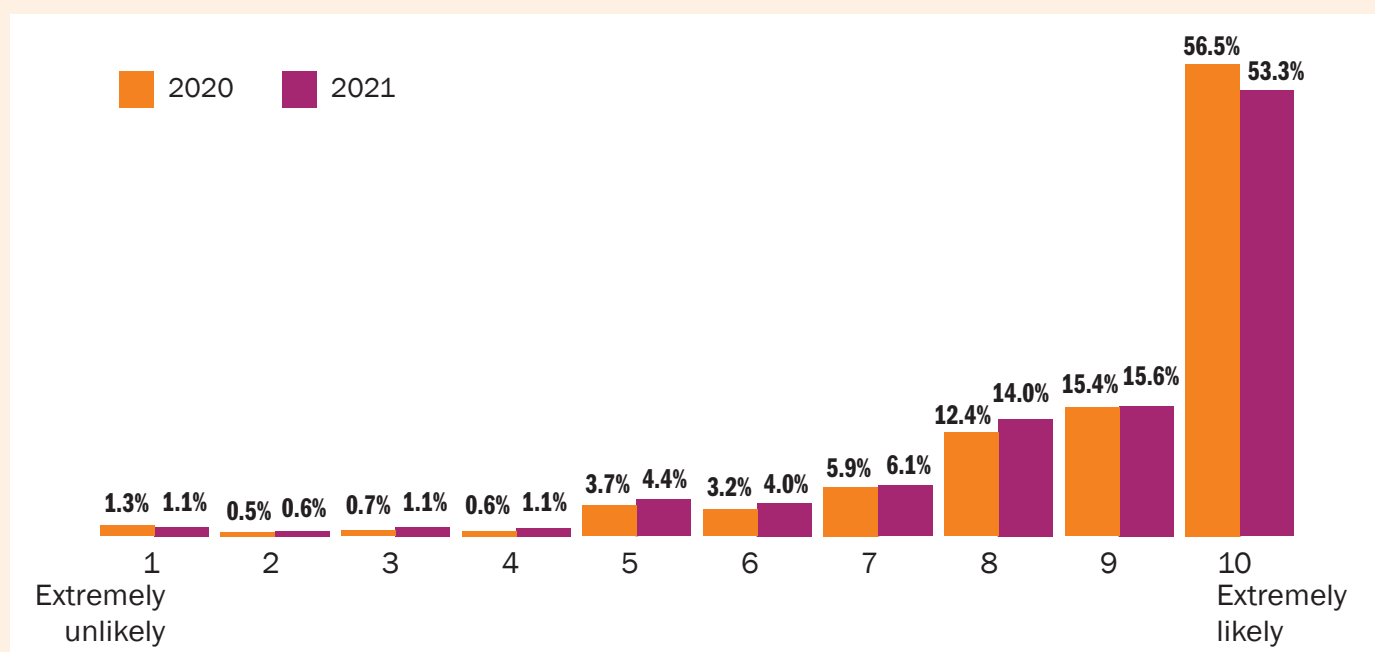
The majority of survey respondents indicated they had either already applied what they had learned from MOCA-Peds to their clinical practice (62.7%), or they planned to do so (20%) moving forward. These numbers were slightly higher than in 2020.*



* Includes data from survey respondents who were participating for Part 3, regardless of exam areas and indicated they had learned from MOCA-Peds in a previous question (n=18,383). Data from General Pediatrics exam and subspecialty participants are presented in aggregate due to small sample sizes in some subspecialties.

How likely are you to recommend MOCA-Peds to a fellow pediatrician?

Survey respondents were asked to rate, on a scale from 1 to 10, where 1 = “Extremely unlikely” and 10 = “Extremely likely,” how likely they would be to recommend MOCA-Peds to a fellow pediatrician. The majority indicated that they would be “Extremely likely” to recommend MOCA-Peds to a fellow pediatrician.*



* Includes data from survey respondents who were participating for Part 3 credit in any exam area. Data from General Pediatrics and Subspecialty exam participants are presented in aggregate.

What are these data used for?

- The original purpose in collecting these data was to evaluate the success of MOCA-Peds (e.g., acceptability, effectiveness, feasibility for participants)
- These deidentified data are shared with pediatricians to demonstrate the variation in participant usage and opinion.
- These deidentified data are shared with internal teams at the ABP and question writing committees (e.g., subboards) to improve the content and quality of the assessment in future years.

How are these data collected?

- The data are drawn from (1) administrative information in the ABP Certification Management System on participation, and (2) an end-of-year survey distributed after completion of quarter 4.
 - The end-of-year survey was delivered to those who completed the 2021 Quarter 4 questions. Email reminders were sent to those who had yet to complete evaluation survey. The delivery method was the same in 2020.
 - The survey response rates were 68.6% in 2020 and 63.7% in 2021 for survey respondents who were participating for Part 3 credit.
 - The primary limitation is that those who did not complete MOCA-Peds Quarter 4 questions are not represented here. Their opinions of MOCA-Peds may vary from the aggregated responses shown here.

Data presented are from the ABP Certification Management System and the 2021 and 2020 MOCA-Peds End-of-Year Surveys.

For questions about MOCA-Peds, please contact mocapeds@abpeds.org.

For questions about the survey research, please contact research@abpeds.org.



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