MOCA-Peds 2018 Pilot Results:
Outcomes, Learning, Clinical Practice Changes, and What is to Come

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Disclosures

All presenters are employed by the American Board of Pediatrics.
Agenda

OVERVIEW OF PILOT

RESULTS

2019 AND BEYOND
MOCA-Peds Overview

- Continuous assessment tool
- Series of questions at quarterly intervals
- Delivered via web or mobile device at home or office
- Focuses on assessment and learning
- Designed to fulfill the MOC Part 3 requirement
Question Delivery

- 80 delivered questions annually.
- Flexibility to answer within quarter, one-at-a-time, or in batches.
- Questions must be answered by end of quarter.
- You must wait for the next quarter before beginning the next set.
Content

- 40 learning objectives (LOs)
- Two questions (partners) per LO
- Instant feedback with rationales
- Two featured readings (eg, guidelines)
- Multiple-choice, single-best answer
- Five minutes per question
- Confidence and relevance ratings
- Question history repository

80 questions annually
Use of books, online references, resources is allowed, but should not be needed.

Discussing, sharing of questions is NOT allowed.
Eligibility To Participate

- Meeting MOC requirements in General Pediatrics
- MOC Part 3 exam due in General Pediatrics in 2018
- Those electing to return from 2017 pilot

Incentive for Engagement

- MOC Part 3 secure exam at Prometric is deferred
- 5 points of Part 2 credit
Research/Evaluation Effort

• Partnership with Research Triangle Institute
• Initial Registration Survey
• End of Quarter 3 Survey
• End of Year Survey
• Multiple Focus Groups
Pilot Results
2018 Participation

2017 Returners
- Enrolled: 4855
- Participated*: 3479 (71%)
- Completed**: 3048 (62%)

2018 Enrollees
- Enrolled: 6025
- Participated*: 5894 (97%)
- Completed**: 5644 (93%)

Passing Rate* 95.6%

*based on all enrolled

*answered at least one question; **completed all 80 questions
Test Security

• Web Patrolling
• Data Forensics
• No indication of issues
Question Response Time by Quarter (mean)

- 2018 Participants
- 2017 Participants
Relationship between Time and Overall Score

Correlation: -0.03
P-value: 0.02
Partner Questions

Definition: The second question a pediatrician receives on a given learning objective.

- Performance increased slightly on partner questions.
- Relevance ratings highly correlated.
- Partner questions took 10 seconds less time to answer.
- Confidence ratings decreased slightly.
Relationship between Partner Item Difficulty
Questions were relevant to...

General Pediatrics

![Bar chart showing endorsement of questions]

- Disagree/Strongly Disagree: 4.0% (General Pediatrician), 2.3% (Subspecialist)
- Neutral: 6.1% (General Pediatrician), 5.7% (Subspecialist)
- Agree/Strongly Agree: 89.9% (General Pediatrician), 92.0% (Subspecialist)

My Practice

![Bar chart showing endorsement of questions]

- Disagree/Strongly Disagree: 7.8% (General Pediatrician), 29.4% (Subspecialist)
- Neutral: 13.3% (General Pediatrician), 28.7% (Subspecialist)
- Agree/Strongly Agree: 78.9% (General Pediatrician), 41.8% (Subspecialist)
Questions on the guidelines...

Helped me stay current in General Pediatrics

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<tr>
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<th>Disagree/Strongly Disagree</th>
<th>Neutral</th>
<th>Agree/Strongly Agree</th>
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<tr>
<td></td>
<td>2.1%</td>
<td>4.6%</td>
<td>93.2%</td>
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Were relevant to General Pediatrics

<table>
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<tr>
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<th>Disagree/Strongly Disagree</th>
<th>Neutral</th>
<th>Agree/Strongly Agree</th>
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<tbody>
<tr>
<td></td>
<td>2.0%</td>
<td>3.3%</td>
<td>94.6%</td>
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Did you learn, refresh, or enhance your medical knowledge based on using MOCA-Peds?

- No: 2.6%
- Yes: 97.4%
Were you able to apply what you learned in your clinical practice?

- No, other reason: 3.2%
- No, practice area not GP focused: 16.5%
- No, but I plan to: 23.5%
- Yes, I already have: 56.8%
Approximately...

- **78%** rated the quality of the content as **good or excellent**.
- **80%** felt model was feasible.
- **80%** found questions at level of difficulty expected.
- **95%** noted they would use MOCA-Peds in the future to maintain their certificate.

Other survey data...
For More Research Data...
With input from more than 10,000 board-certified pediatricians, the American Board of Pediatrics (ABP) developed a new option for pediatricians to fulfill their Maintenance of Certification (MOC) exam requirement.

This page describes the research methods used to build and evaluate the online, non-proctored assessment platform called MOCA-Peds (Maintenance of Certification for Pediatrics) and provides some of the research results.
Learn More About the 2017-18 Pilot

- 2017: Who participated, where they live, and what they think about it
- 2018: Who participated, where they work, and how they stay up-to-date
- 2017: Evaluation results (PDF)
- 2017 and 2018: Evaluation results (see interactive report below or download PDF)

MOCA-Peds Pilot Summary

Summary of the MOCA-Peds pilots in 2017 and 2018, including use patterns, feasibility, acceptability, scoring, and more.

https://www.abp.org/content/moca-peds-research-and-evaluation
Major Takeaways

• Guidelines were well received.
• General model was well received.
• Partner questions were neutral.

How can we incorporate more guidelines or featured readings but still maintain the assessment component and not make MOCA-Peds burdensome?
MOCA-Peds Model Today
Model Design in 2019

Core Knowledge

• 45 learning objectives
• 1 question per learning objective
• 45 questions total

New Knowledge

• Up to 4 featured readings
• 2 questions per featured reading
• 0 to 8 questions total

15 repeat questions
Based on confidence/relevance ratings and questions missed

Up to 4 “time-sensitive” topic questions
Space holder in the event we need to push something out quickly

Total Number of Questions

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<th>Annually</th>
<th>Quarterly</th>
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<tr>
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<td>60 to 72</td>
<td>15 to 18</td>
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Implementing a Recommender System

Recommend questions pediatricians would find relevant based on prior ratings.
Improving the Relevance of Continuing Certification: Directions, Challenges, and Implementations

Wednesday - 10:30-11:30am
How will MOCA-Peds work in the MOC Cycle?
Five-year MOC Cycle

15-18 questions quarterly
60-72 questions annually

Year 1
Year 2
Year 3
Year 4

What if I am UNSUCCESSFUL at the end of Year 4, or choose not to participate?

Year 5
Take proctored exam

*Pediatricians also receive MOC Part 2 credit for each year of successful participation.
Five-year MOC Cycle

15-18 questions quarterly
15-18 questions annually

What if I am PASSING at the end of Year 4?

Year 1
Year 2
Year 3
Year 4
Score

Year 5
Take a break til next cycle*

*Pediatricians may choose to continue participating for MOC Part 2 credit.
Life Circumstances/Tech Issues/Scoring

- Scoring process will drop the lowest 4 quarters of performance at the end of year 4.

- Pediatricians will know at end of year 3 if meeting the passing standard.

- If passing at end of year 3, then years 4 and 5 are optional.
## Next Round of MOCA-Peds

<table>
<thead>
<tr>
<th>2020</th>
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<th>2022</th>
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<tbody>
<tr>
<td>• Developmental Behavioral Pediatrics</td>
<td>• Critical Care Med</td>
<td>• Adolescent Medicine</td>
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<td>• Endocrinology</td>
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<td>• Pulmonology</td>
<td>• Rheumatology</td>
<td>• Hematology/Oncology</td>
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For more information

ABP.ORG/MOCAPEDS

EMAIL: MOCAPEDS.ORG
Thank you.