

2017

Innovations in Assessment: ABP's Pilot Results and Lessons Learned

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▶ ACHIEVING IMPROVEMENT
THROUGH ASSESSMENT
AND LEARNING.
TOGETHER.

ABMS CONFERENCE

2017

Disclosure

Salaried Employees of ABP

▶ ACHIEVING IMPROVEMENT
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Presentation Objectives

- Model and Pilot Design
- Pilot Survey and Performance Results
- Planned Enhancements and Next Steps

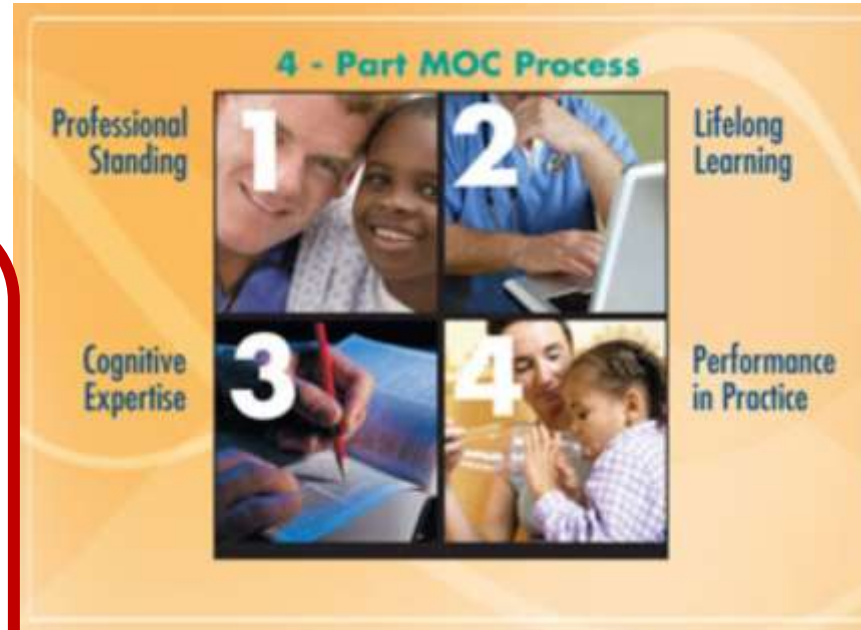
Maintenance of Certification – Four Part Model

Part 1 Professional Standing

Ensures physician is licensed and in good standing.

Part 3 – Cognitive Expertise

Incorporates an objective assessment of the diplomate. Provides assurance that the diplomate is remaining current in the core subject matter.



Part 2 – Lifelong Learning

Requires participation in high quality, unbiased learning and self-assessment activities.

Part 4 – Performance in Practice

Focuses on ongoing assessment and improvement in the quality of care and professional practice.

Current MOC Part 3 Exam for General Peds

- Taken every 10 years
- ~200 multiple-choice questions
- Four-hour examination
- Taken at a secure, proctored testing center
- No immediate feedback

Why Change?

- ✓ Diplomate feedback
- ✓ Advances in technology
- ✓ Incorporation of adult learning theory
- ✓ Rapid changes in medicine
- ✓ Increased learning provides better public protection
- ✓

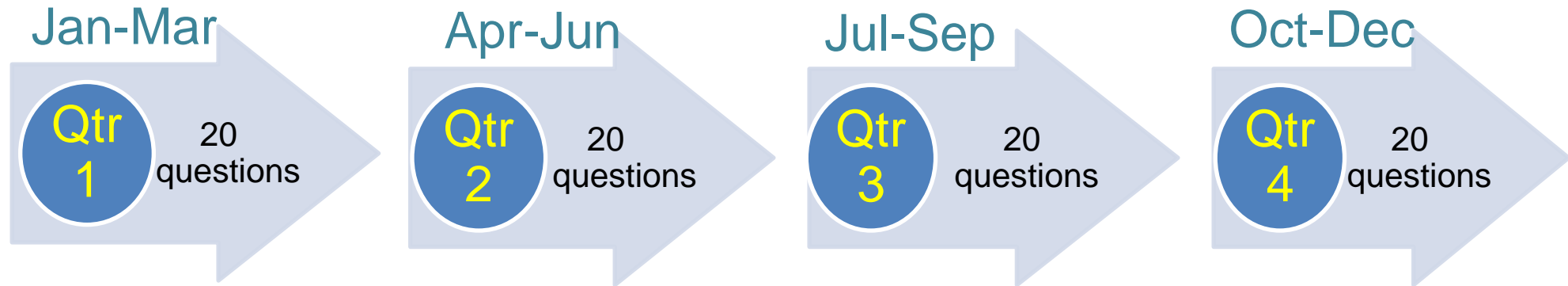


So What is MOCA-Peds?

- Continuous assessment tool
- Series of questions at quarterly intervals
- Delivered over the web or mobile device
- Focuses on assessment and learning



MOCA-Peds Overview



- 2 multiple-choice questions per learning objective per year
- 5 minutes per question
- Flexibility to answer within quarter; one-at-a-time or in batches
- Immediate feedback (response, rationale, references)
- Confidence and relevance ratings

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

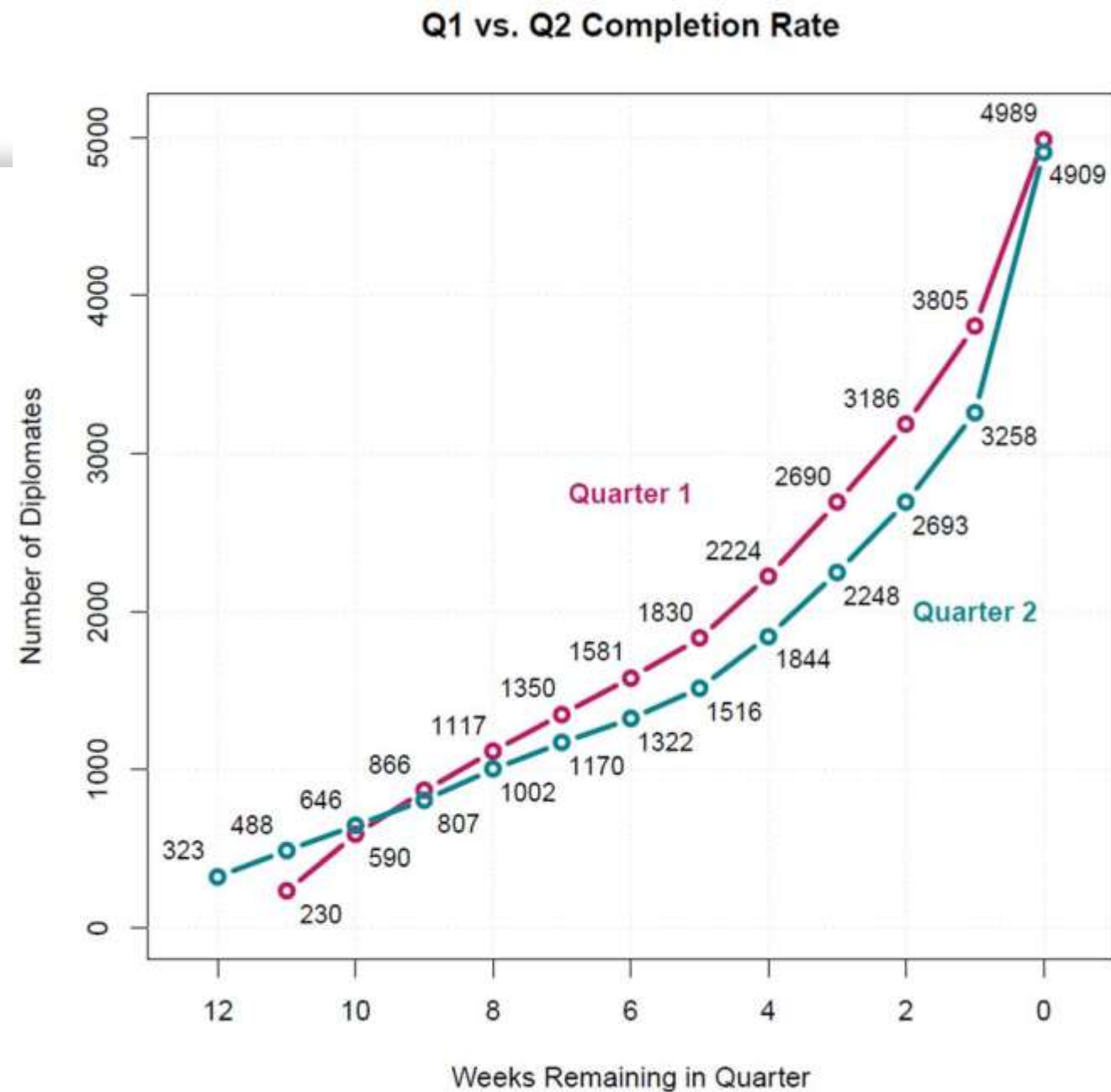


Discussing, sharing of questions is NOT allowed.



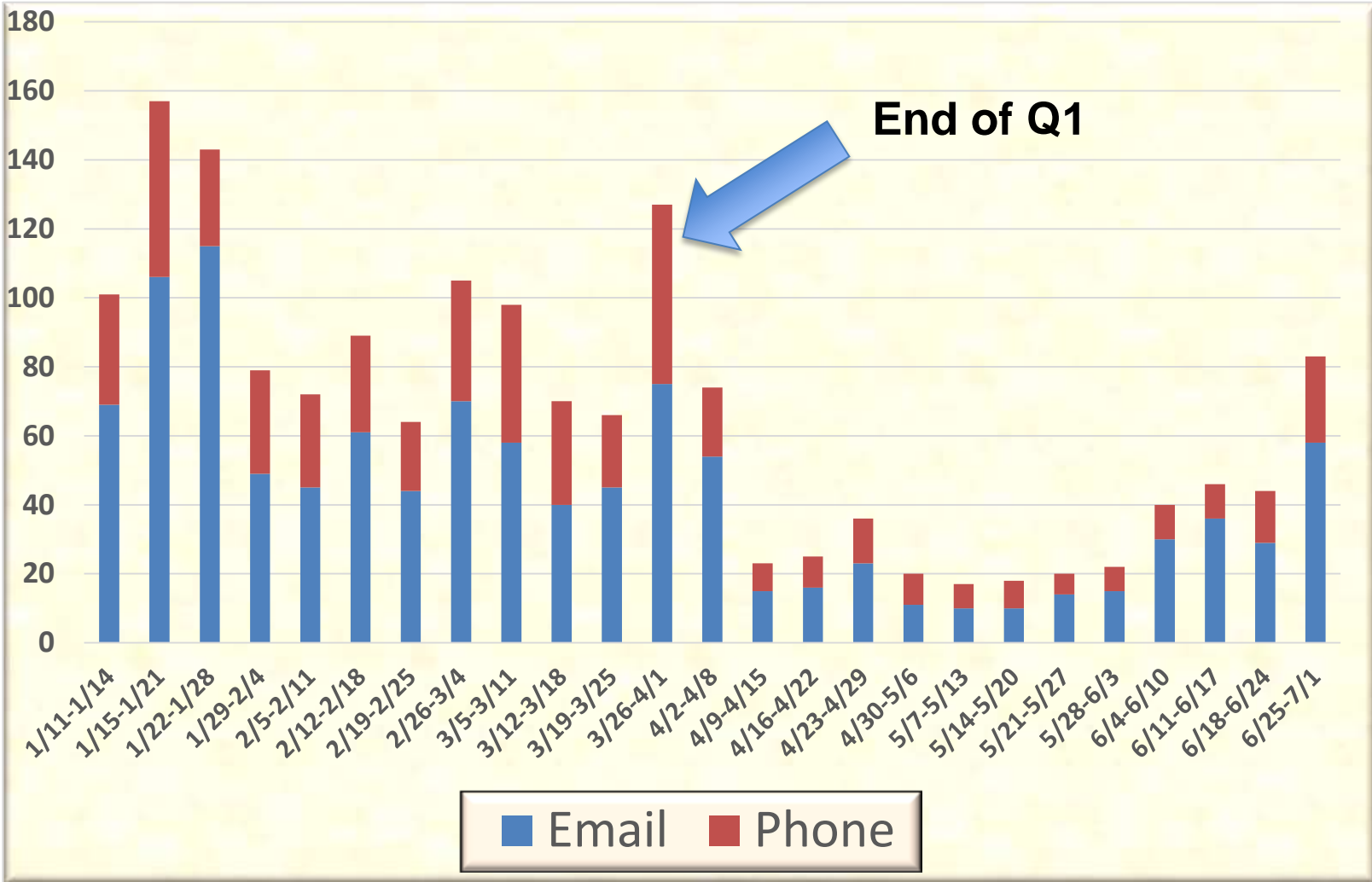
2017 Pilot Participation

- Launched January 9, 2017
 - Mobile App – April 1
- 5,081 registered for the pilot
- High question completion rate
 - Q1 (98%)
 - Q2 (96%)
- Only 7 Opted Out
- 14 approved for special accommodations (extra time)

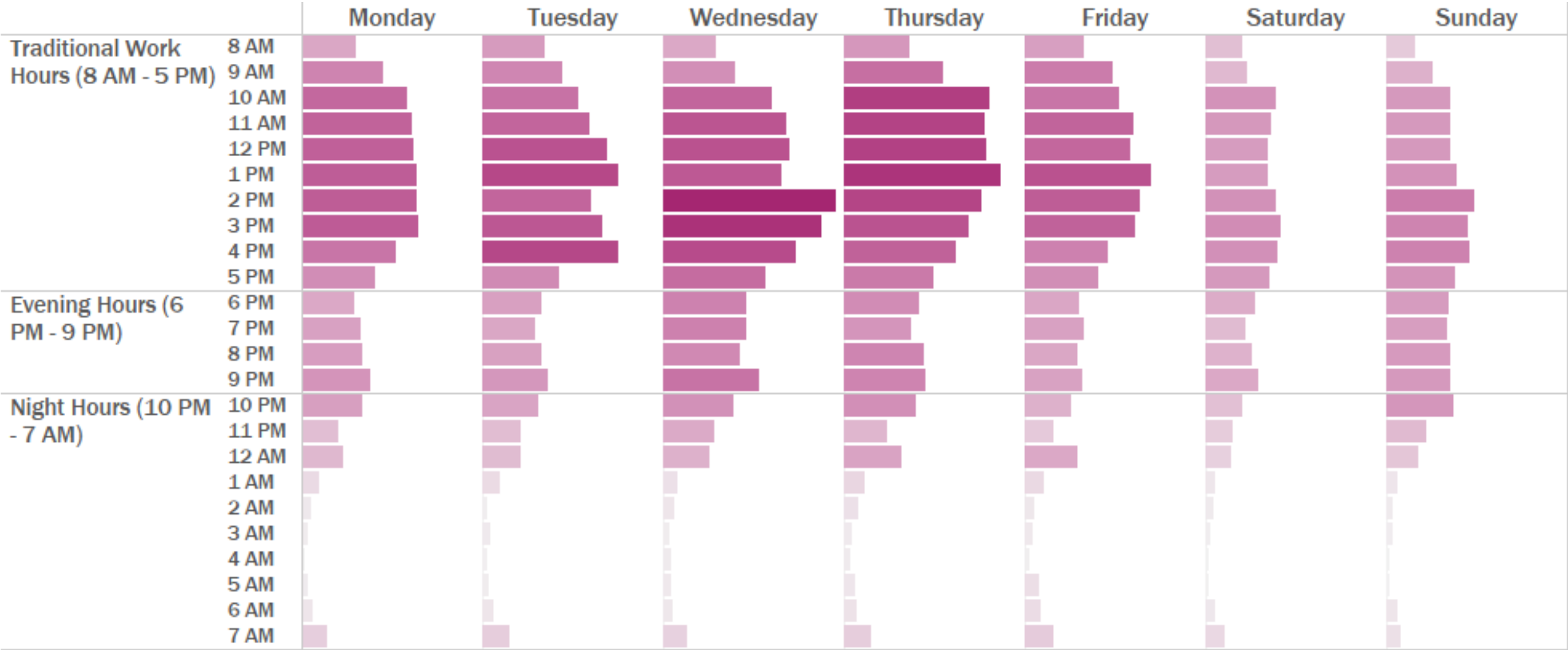


Volume and Method of Communication

- Mostly email communication
- Highest at the beginning and end of each quarter
- 1,171 Q1 Tickets
 - 221 Technical (18%)
- 479 Q2 Tickets
 - 86 Technical (17%)
- Amount of



When Are Diplomates Taking Questions?



Live Demonstration





Stakeholder Involvement in Pilot Design

Pilot Evaluation

User Groups



- 37 pediatricians meeting on a regular basis to inform decisions
- 9 new pediatricians for usability testing

Focus Groups



- Over 160 external pediatricians
- In-person and teleconference

Longitudinal Surveys

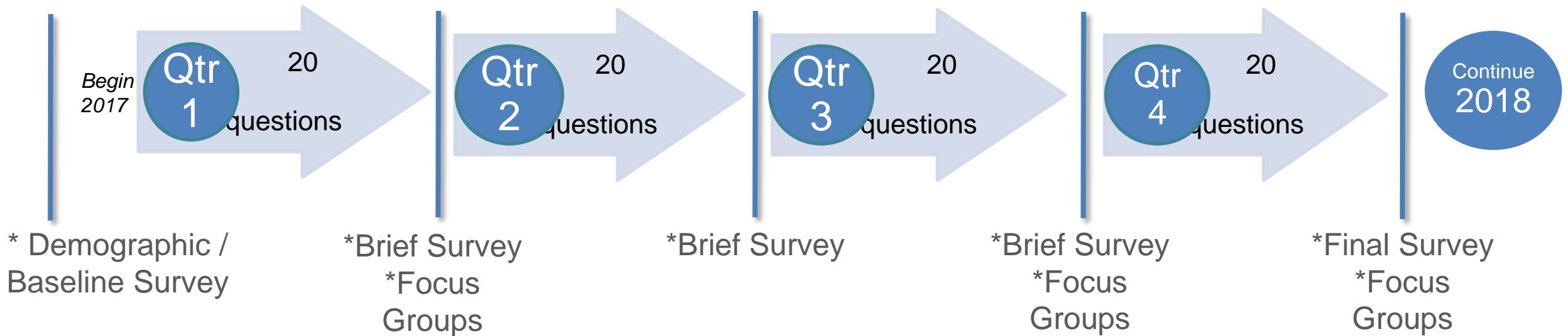
Topics/Domain Areas	Registration	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Information technology – Ease of use and possible issues	X	X	X	X	X
Questions of MOCA-Peds		X	X	X	X
Study habits of and resource use by participants	X	X	X	X	X
Question/answer feedback (e.g., rationales/references)			X	X	X
Customer Service		X	X	X	
Ease of understanding homepage scores/status					X
Anxiety/Burden	X		X		X
Overall feasibility/acceptability	X		X		X

Focus Groups

- Planned after quarter completions



2017 Surveys and Focus Groups



- Topic areas vary by quarter
- Using focus groups to ask the ‘how’ and ‘why’ questions
- 83% Q1 survey response rate (n=4,181)
- 77% Q2 survey response rate (n=3,773)
- ??% Q3 (preliminary) survey responses (n=1,215)

Technical Issues – Quarter 2 Survey

Did you experience any technical issue(s)?	Quarter 1		Quarter 2		Quarter 3 (Preliminary)	
	Count	Percent	Count	Percent	Count	Percent
Yes	673	16.1%	409	10.8%	76	3.2%
No	3,508	83.9%	3,364	89.2%	1,139	96.8%
Total	4,181	100%	3,773	100%	1,215	100%

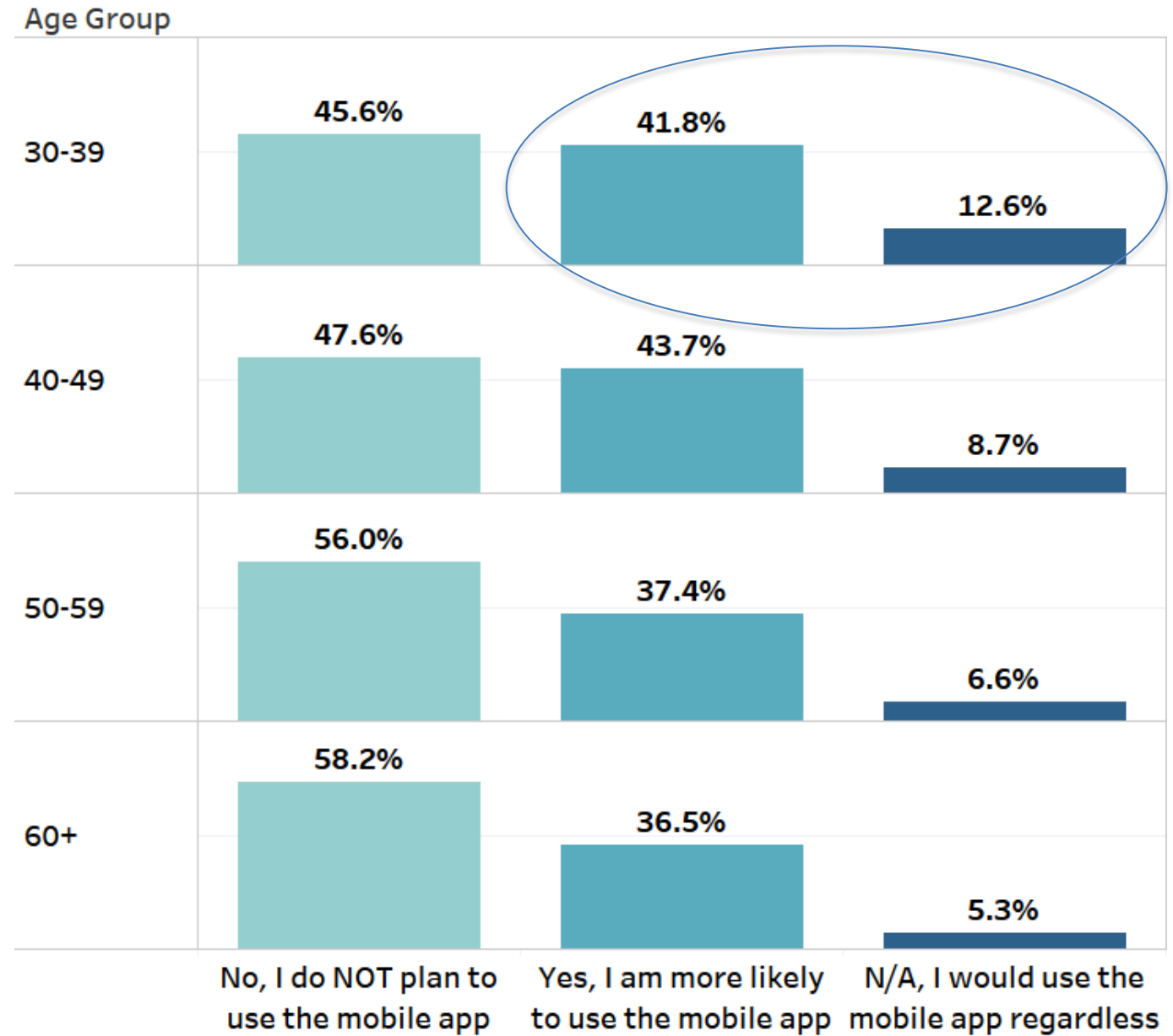
Source = MOCA-Peds Quarter 1-3 Surveys

Type of Platform Used – Quarter 2 Survey

In Quarter 2, which platform did you use?	Count	Percent of Cases
Computer	3,594	95.3%
Smartphone	234	6.2%
Tablet	119	3.1%
Total Selected	3,947	N/A

Source = MOCA-Peds Quarter 2 Survey; Sample Size: n = 3,773

Would Adding App Features Increase Likelihood to use Mobile App?



Source = MOCA-Peds Quarter 2 Survey; Sample Size: n = 3,773

Learning, Study, & Resource Usage

Study Time Before Questions

Q12. Reflecting on Quarter 1/2, how much time did you spend studying, in advance of taking the questions? (Please approximate TOTAL time studied for ALL 20 questions during the Quarter 1/2.)	Quarter 1 Percentages	Quarter 2 Percentages
I did not prepare in advance	54.7%	55.8%
<1 hour	6.8%	7.9%
1 to <2 hours	7.3%	9.0%
2 to <5 hours	9.6%	11.1%
5 to <10 hours	7.6%	6.7%
10 to 20 hours	7.1%	5.1%
>20 hours	6.9%	4.3%
Total	100%	100%

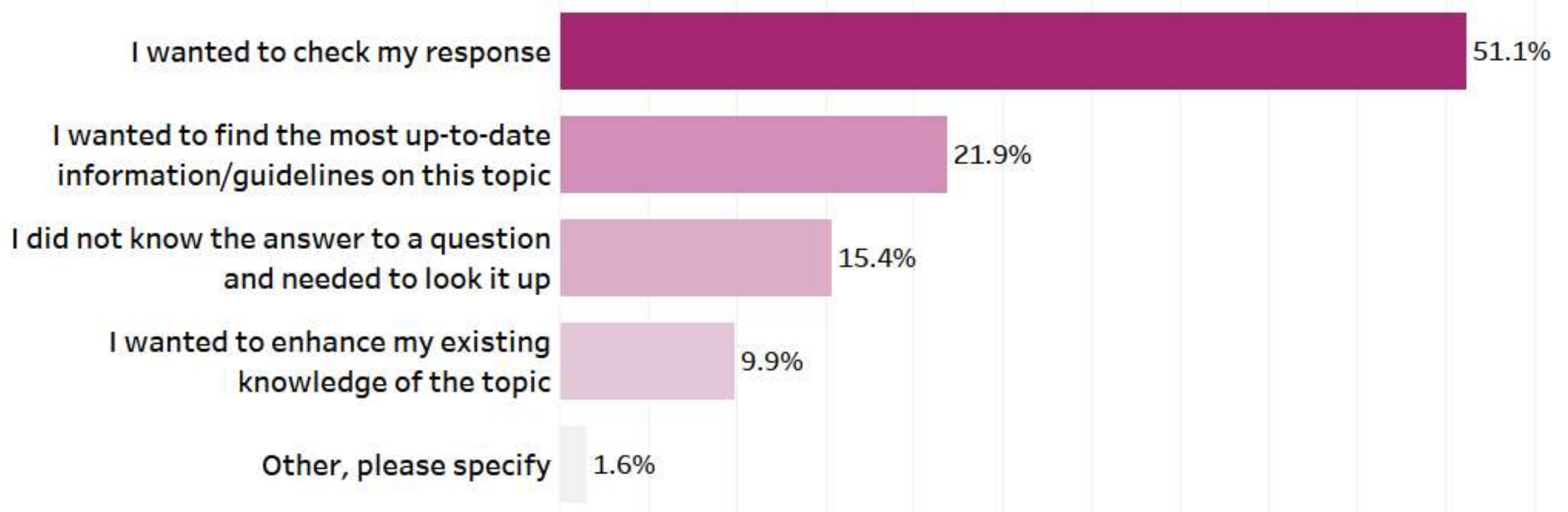
Source = MOCA-Peds Quarter 1 and 2 Survey; Sample Size: n = 3,461 across both surveys

Use of Resources

Q9. Reflecting on Quarter 1/2, how often did you use resources while answering questions?	Quarter 1 Percentages	Quarter 2 Percentages
I did NOT use resources during this quarter	19.2%	17.4%
With 1 to 5 questions	42.6%	41.3%
With 6 to 10 questions	22.2%	22.2%
With more than 10 questions	16.0%	19.0%
Total	100%	100%

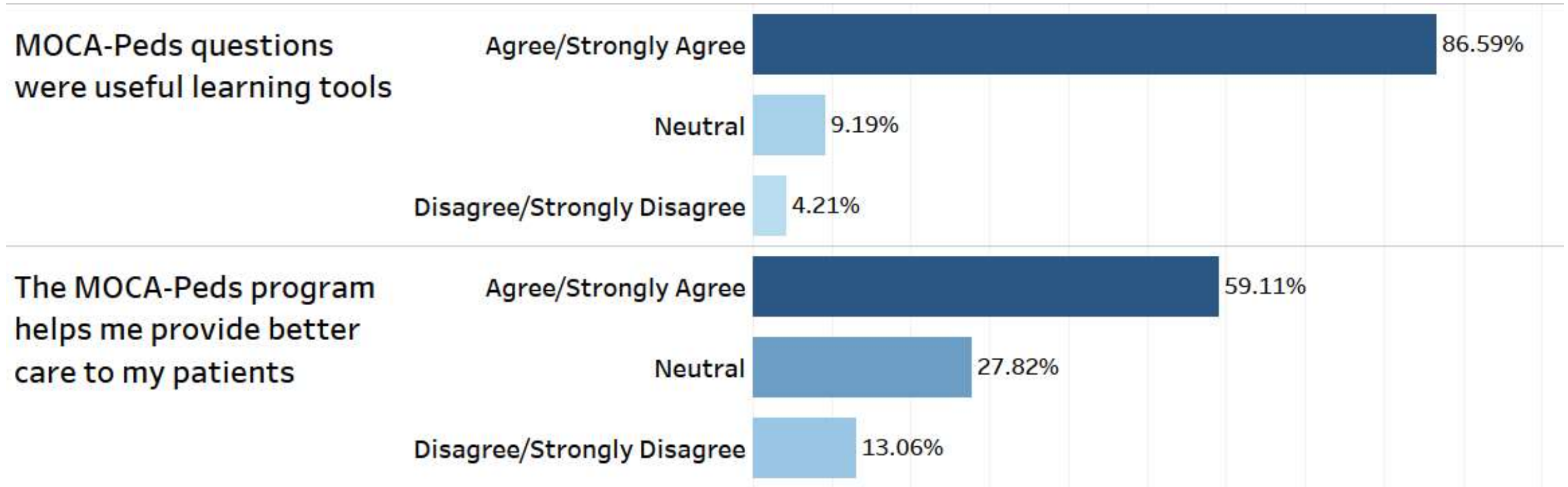
Source = MOCA-Peds Quarter 1 and 2 Survey; Sample Size: n = 4,181 and n = 3,773

What was the primary reason you used external resource(s) while answering questions?



Source = MOCA-Peds Quarter 2 Survey; Sample Size: n = 3,117

Did MOCA-Peds Lead to Learning?

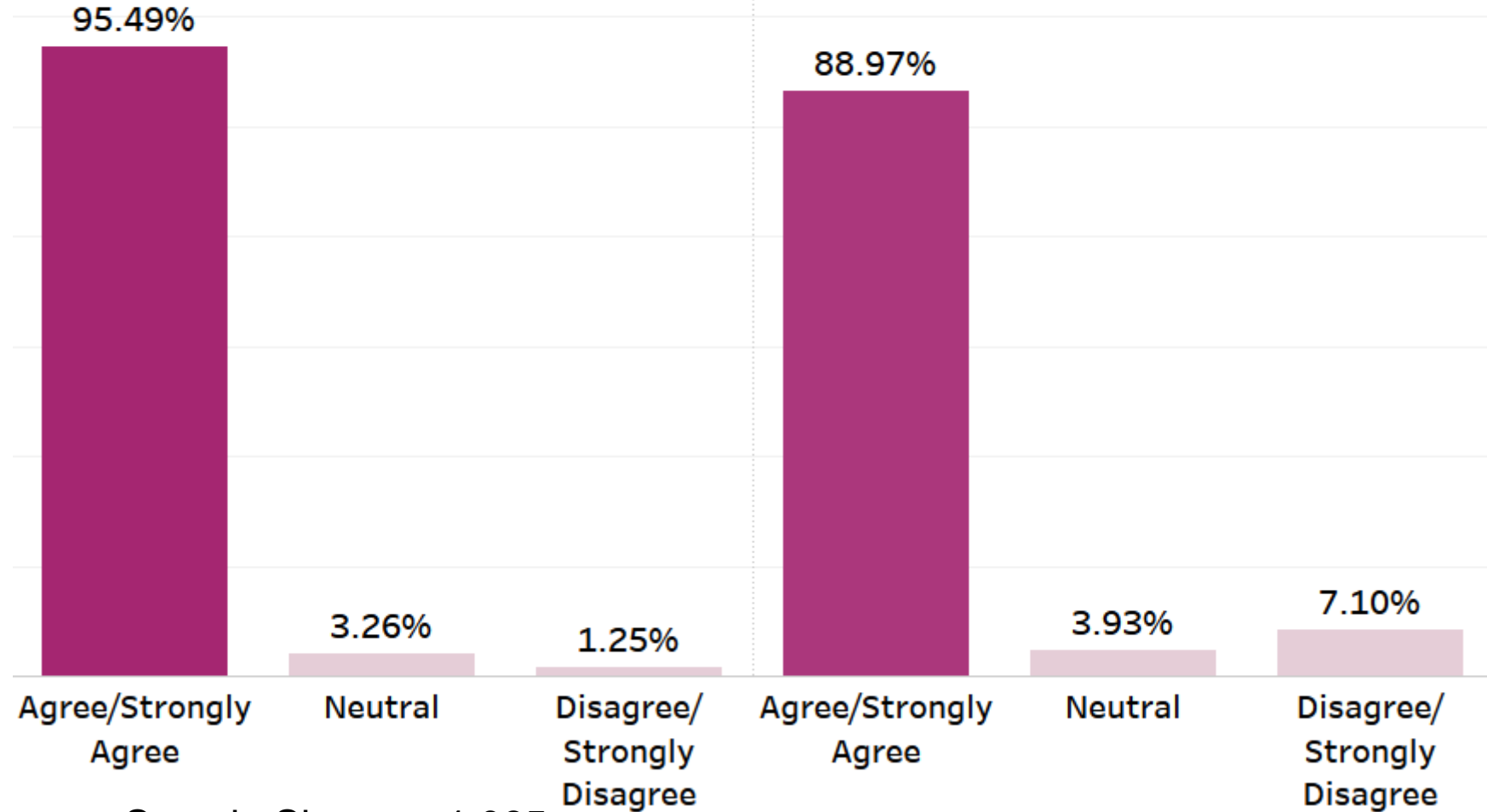


Source = MOCA-Peds Quarter 2 Survey; Sample Size: n = 3,773

MOCA-Peds Acceptability Among Participants

I am overall satisfied with MOCA-Peds
as a replacement for the previous Part 3
Assessment

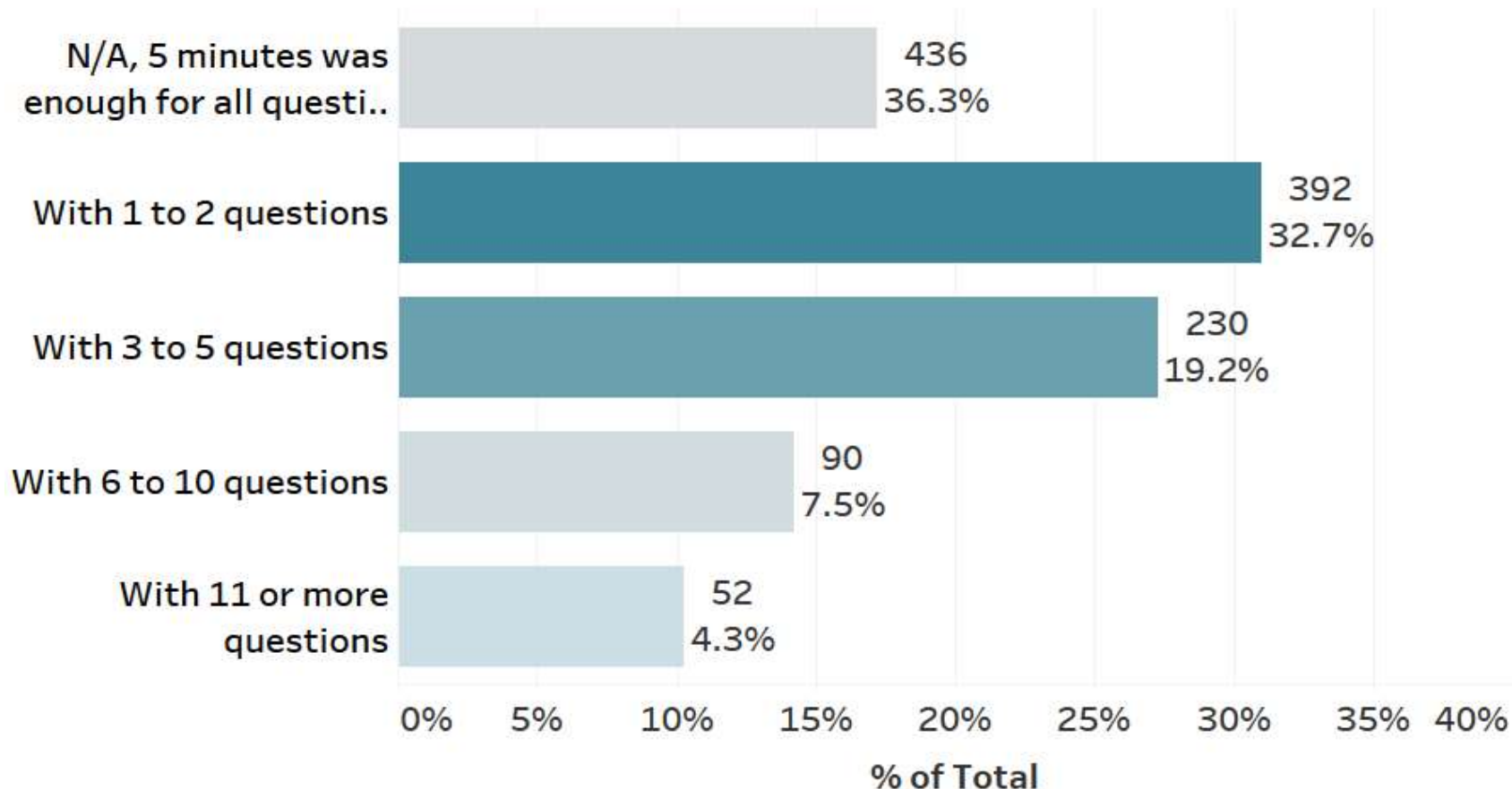
I prefer to take a continuous
assessment like MOCA-Peds over the
current, secure testing center exam.



Source = MOCA-Peds Quarter 3 Survey; Sample Size: n = 1,065

Survey Analysis of the 5-Minute Time Limit

Quarter 3 Preliminary Survey Data: How often did you feel the 5-minute time-limit was too short?

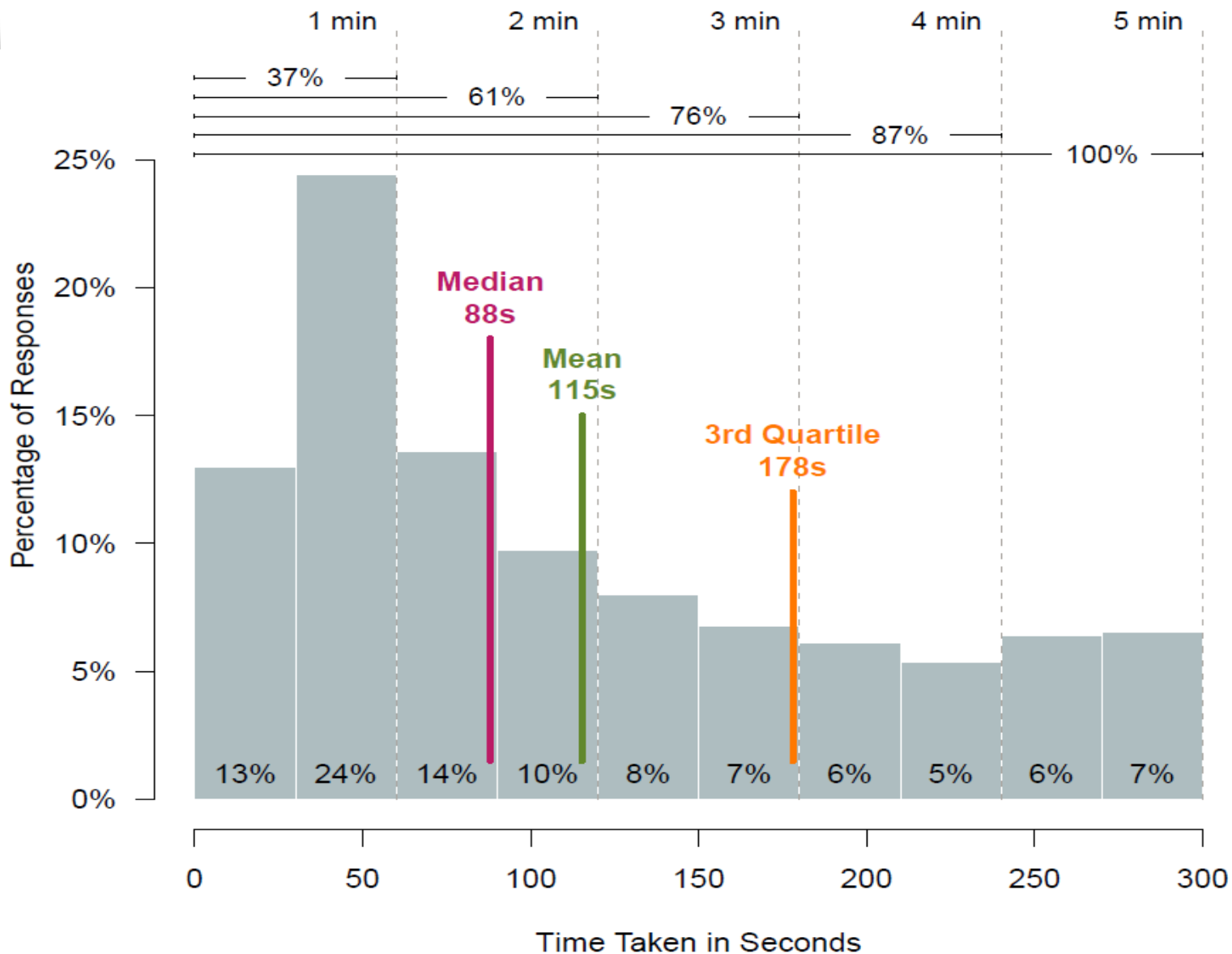


In comparison to Quarter 2's Survey
76.3% Agreed/Strongly Agreed to: *"I had enough time to answer each question"*

Source = MOCA-Peds Quarter 3 Survey; Sample Size: n = 1,200

Pilot Performance Results

Response Times Across All Items and Participants



Average time per question

1 minute, 55 seconds

~38 minutes total
for 20 questions

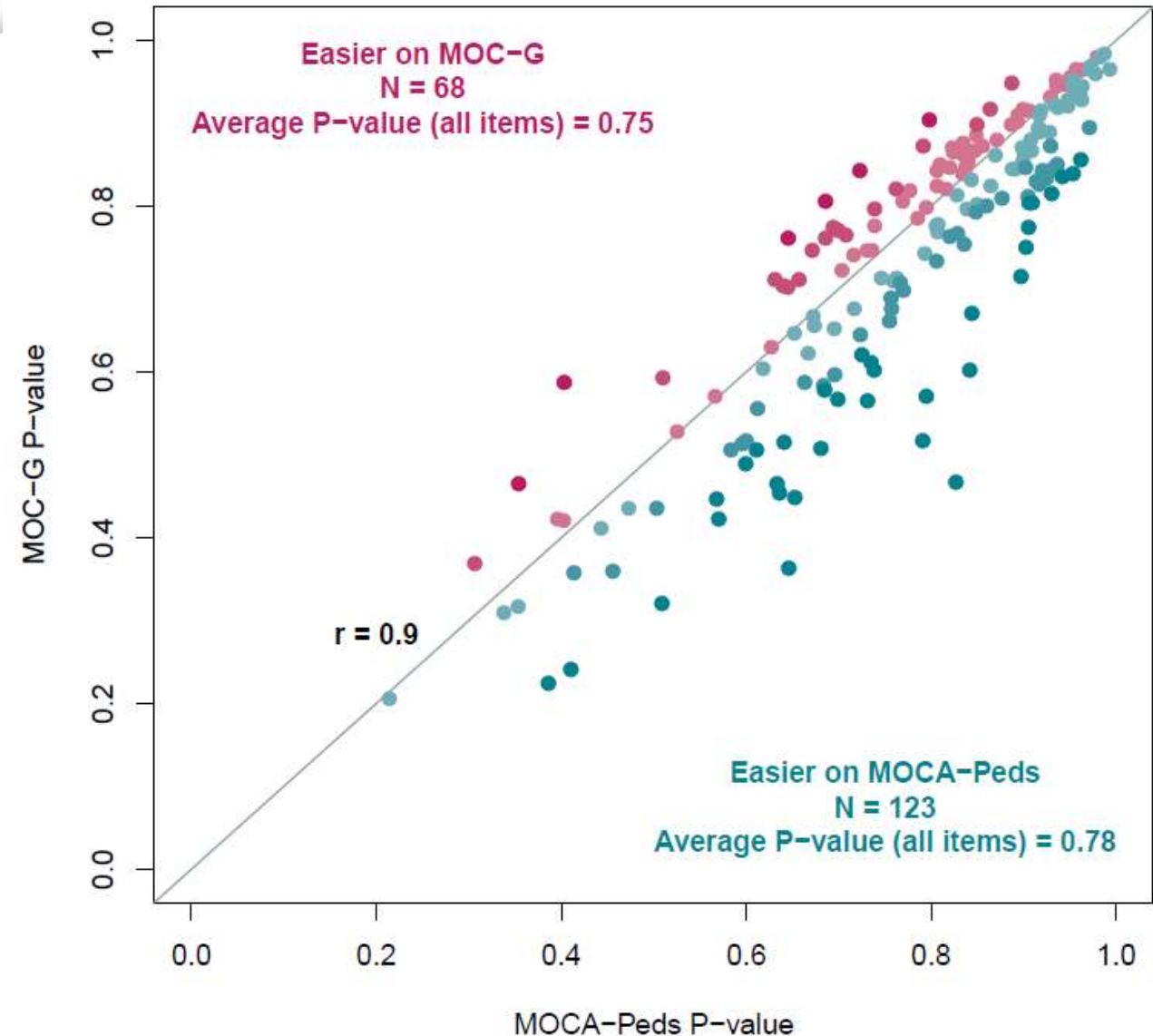
Source: Quarter 2 data
Extra time accommodations not
included

Key Design Feature

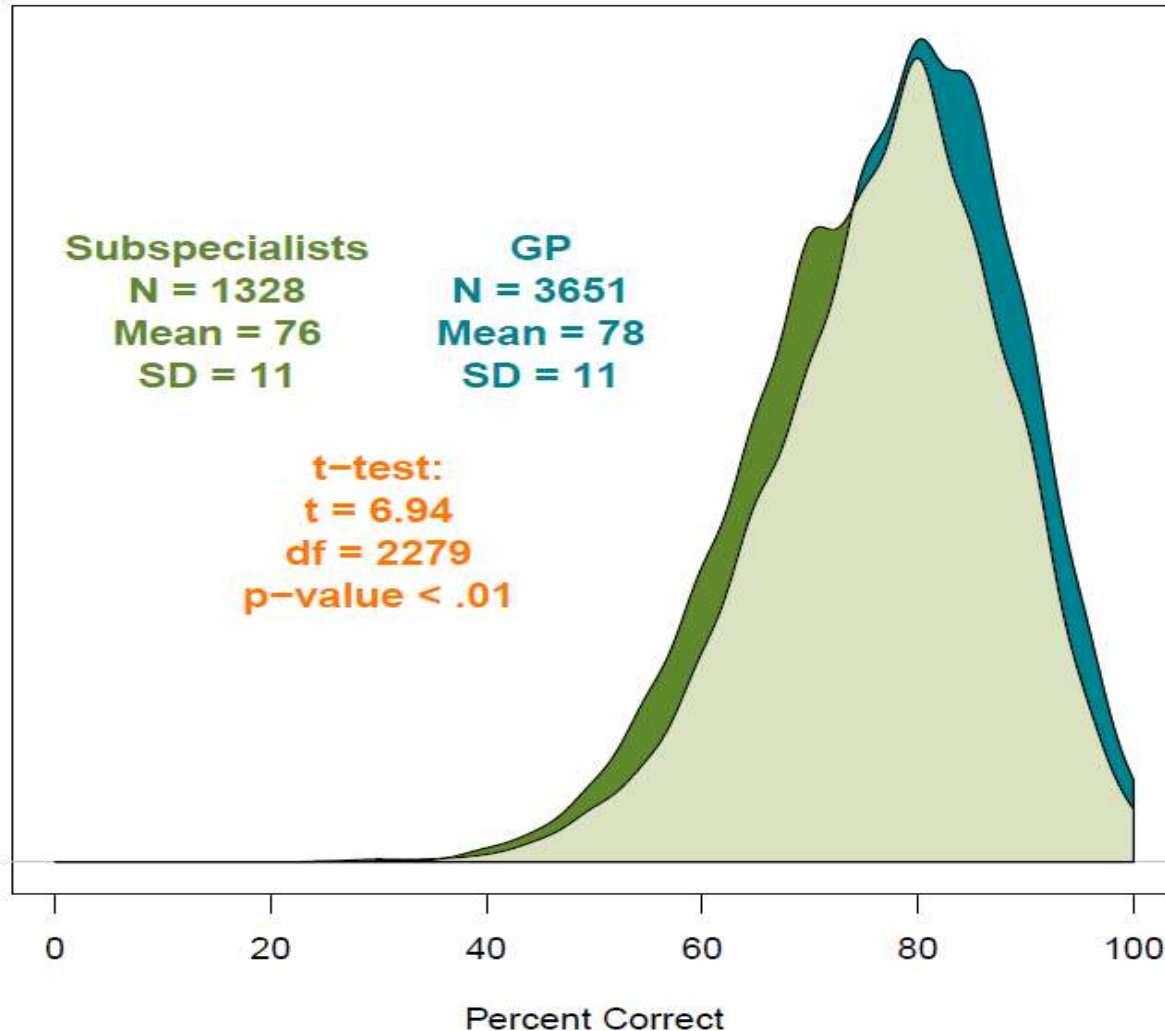
- Questions in pilot used in:
 - Prior year's General Pediatrics initial certification exam
 - Prior year's secure MOC Part 3 General Pediatrics exam (MOC-G)

Exam (MOC-G) vs. MOCA-Peds

- Strong correlation exists between questions that appeared on the traditional, proctored examination and MOCA-Peds
- Slightly easier on MOCA-Peds



Generalists vs. Subspecialists Performance



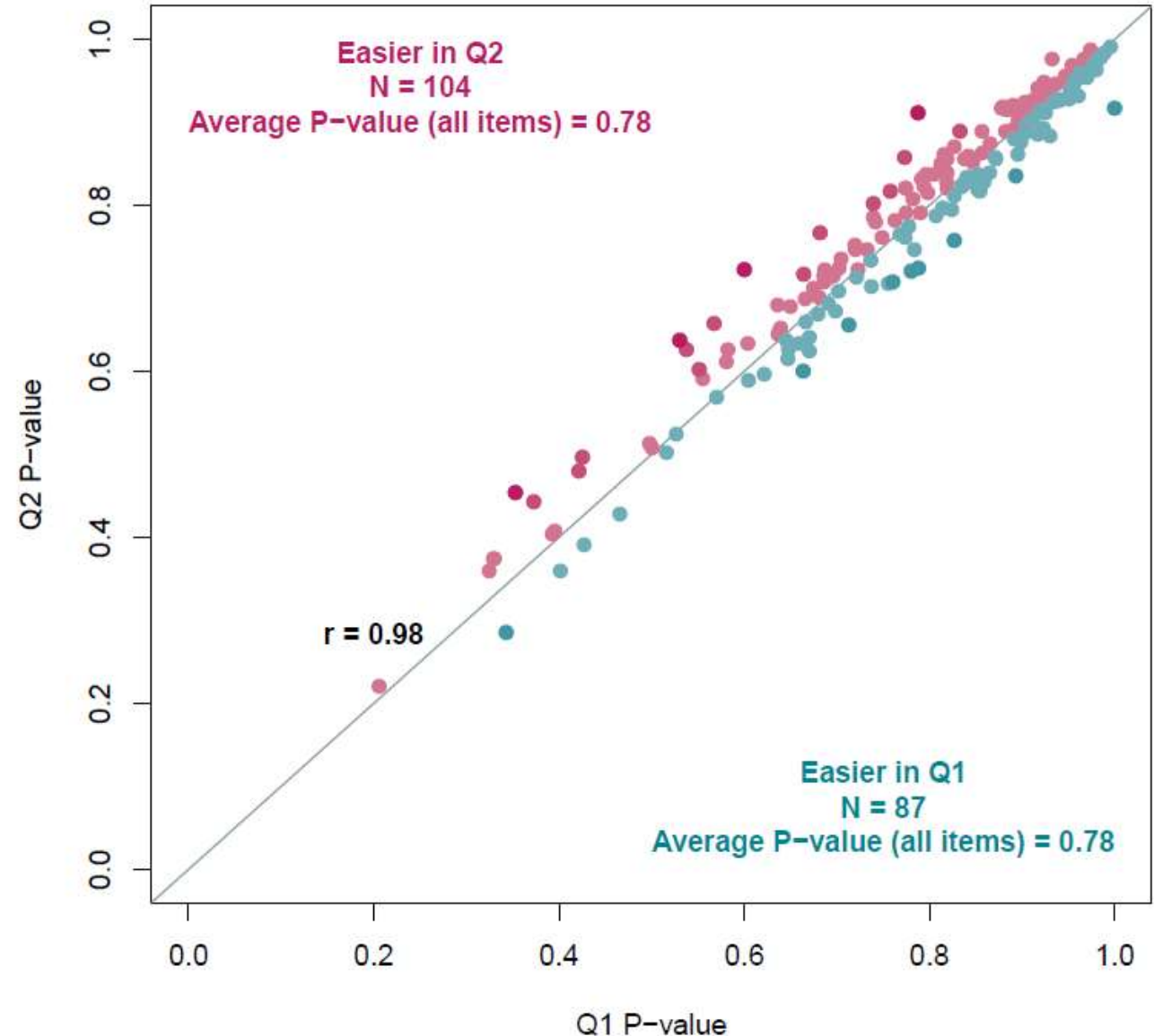
General
Pediatricians
performing slightly
better:

78% vs 76%

Source: Quarter 2 data

Question Difficulty

- Question difficulty was consistent across Quarter 1 to Quarter 2.
- One indication that item content may not be leaking.



Lessons Learned and Planned Enhancements

A Tough Balancing Act

Learning

Assessing
Knowledge

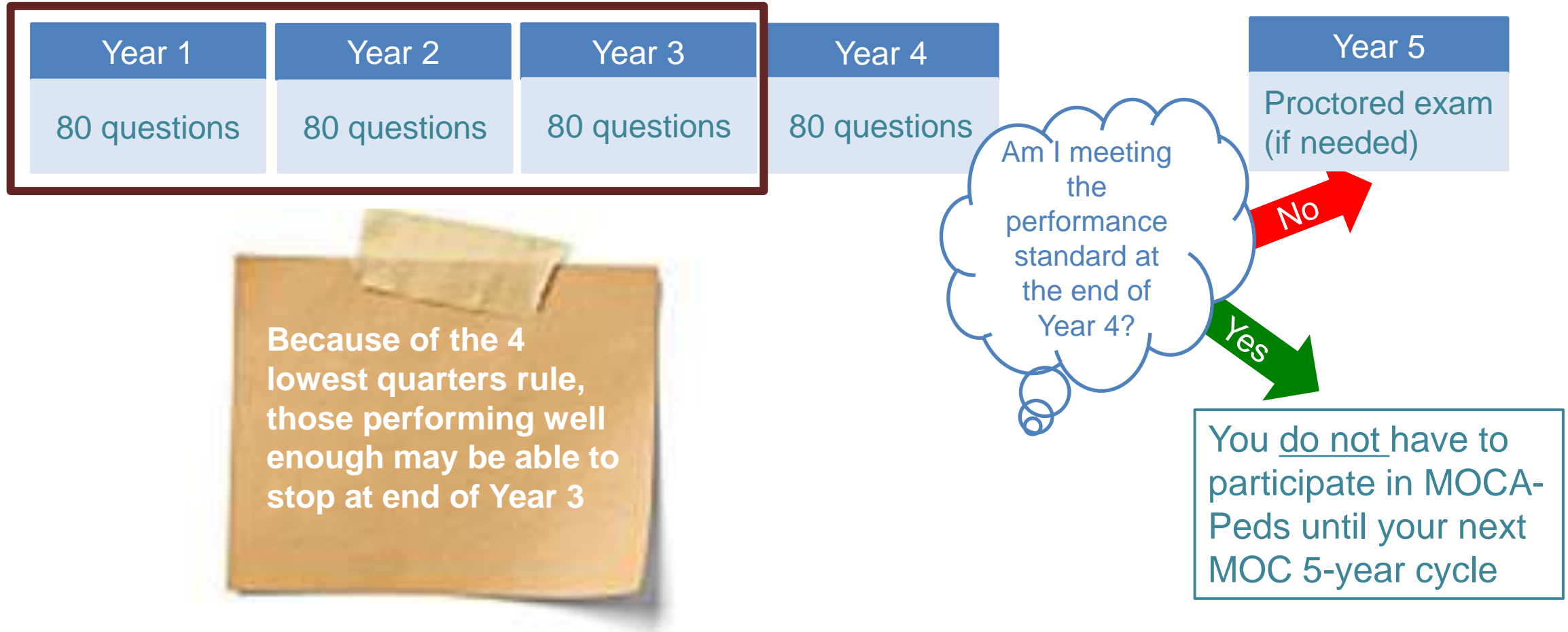


Still a high-stakes assessment with focus on assessment.

MOC Cycle Alignment and Life Circumstances

- Scoring process will drop the **lowest 4 quarters** of performance in a 5 year MOC cycle
 - Reduces **burden**
 - **Eliminates** the appeal process
 - Accounts for –
 - **Extenuating circumstances**
 - **Technical issues** (eg, slow internet, dropped questions)

Five-year MOC Cycle (once live in 2019)



Part 3 Options (once MOCA-Peds adopted)

MOCA-Peds

- Default with enrollment
- No additional fees
- Earn Part 2 points

Proctored Exam

- Every 5 years at proctored site
- **Additional fee** to cover cost of seat fee and processing
- No Part 2 credit

General Phase-in Plan

In general...

Diplomates will enter MOCA-Peds at the start of the 5-year MOC cycle during which **their next exam due date falls.**

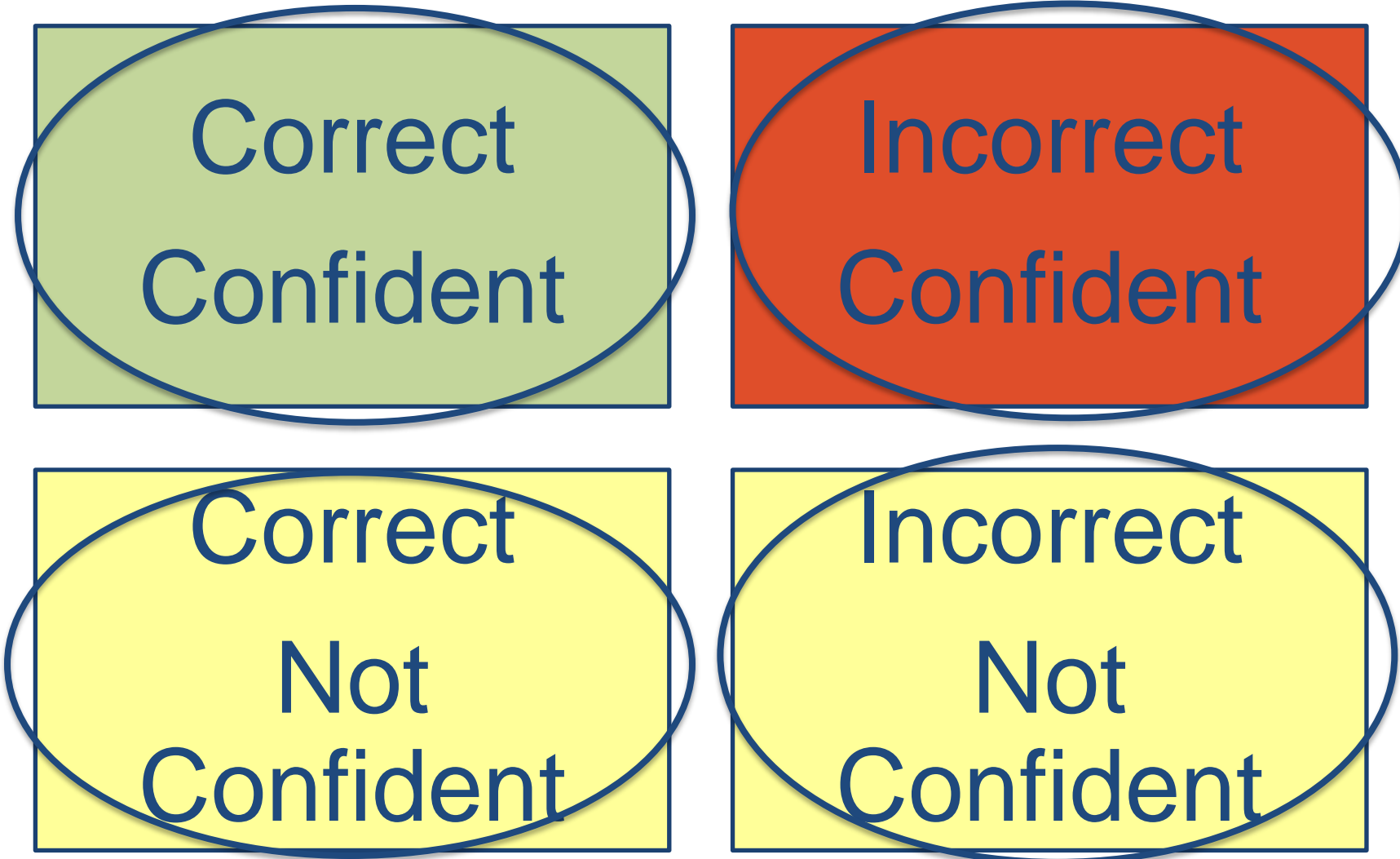
Maintaining Multiple Certificates

Regardless of the number of certifications held, diplomates will need to answer **the same number of questions for a given discipline/area** to maintain the certification for that area.

Incorporation of Guidelines/Articles

- Beginning in 2018
- Goal - Greater face validity - relevancy, currency
- Available at beginning of year with learning objectives
- Restricted to guidelines and just 2 in 2018
- Will expand to other types of articles in 2019
- Likely restructure model – fewer overall questions to accommodate articles

More Feedback - Confidence in Relation to Performance



Communications

- Can't over-communicate...

MOCA-Peds

THE AMERICAN BOARD OF PEDIATRICS

MOCA-Peds Home

Question

Question History

Learning Objectives

Help and Policies

2017

Quarter	Progress
Quarter 1	20 of 20
Quarter 2	20 of 20
Quarter 3 In-Progress	1 of 20
Quarter 4	... of 20
All	41 of 80

Next Question

Your Performance

Total Scaled Score ?

Information collected du establish the passing star available in early January

Question Performance

Answered Correctly

Total Questions

Percent Correct

“I do not recall being sent or directed to any learning objectives.”

“I did not know there was learning objective information given to help prepare for answering questions? Did I miss something?”

“I never received any learning objectives.”

Key Planning Thought

- No silver bullet
- Learning objectives, partners, articles, timing, batching, MOC cycle alignment, etc.
 - Cannot change one without impacting the other
- Everything is a tradeoff
- Need to decide what is most important for your organization

More Information



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