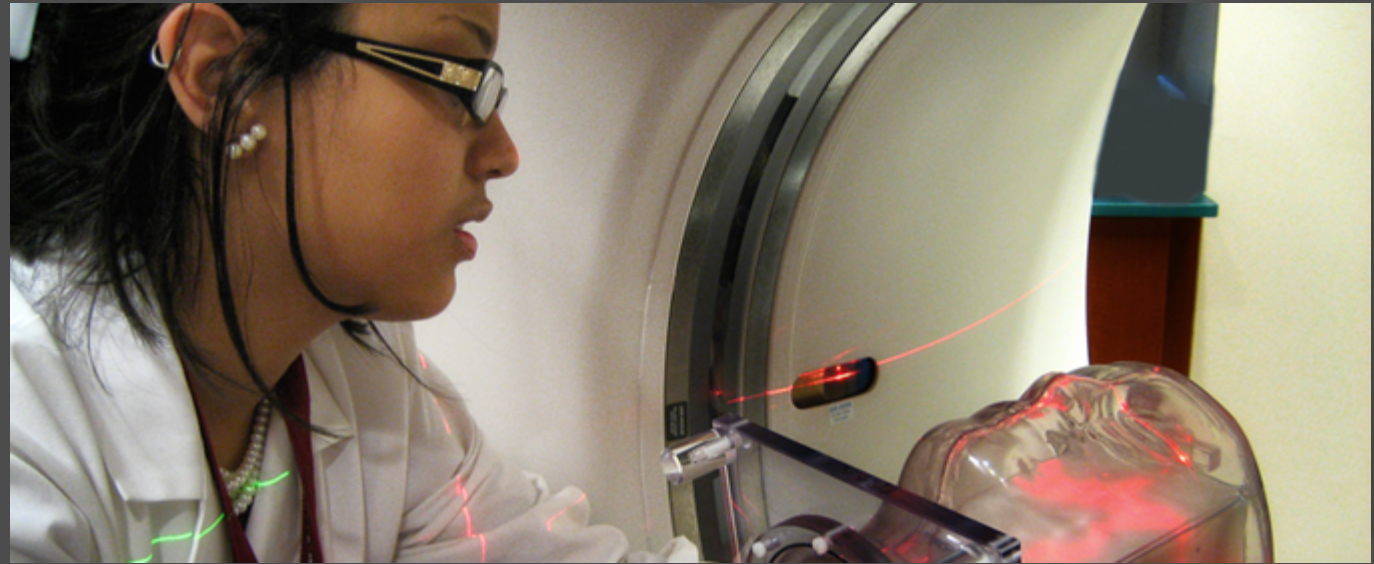




SDAMPP/AAPM/ABR Webinar: ABR Update



MEDICAL PHYSICS
AN UPDATE OF THE
ABR REQUIREMENTS AND PROCESSES

OUTLINE

- **Introduction – Dr. Michael G. Herman**
- **Initial Certification – Dr. J. Anthony Seibert**
- **Maintenance of Certification –
Dr. Jerry D. Allison**

DISCLOSURES

- **Michael G. Herman – Trustee – TMP**
– **Nothing to Disclose**
- **James Anthony Seibert – Trustee – DMP**
– **Nothing to Disclose**
- **Jerry D. Allison – Trustee – NMP**
– **Nothing to Disclose**
- **G. Donald Frey – Associate Executive Director**
– **Nothing to Disclose**

THE MISSION OF THE ABR:

**TO CERTIFY THAT OUR
DIPLOMATES DEMONSTRATE THE
REQUISITE KNOWLEDGE, SKILL,
AND UNDERSTANDING OF THEIR
DISCIPLINES TO THE BENEFIT OF
PATIENTS.**

THE BOARD DOES NOT:

- **Set state or federal regulations for the practice of medical physics**
- **Set standards for accreditation programs**
- **Control the number of students in academic programs**
- **Control the number of residencies**

ABR VOLUNTEERS:

- Must be enrolled in MOC

EXAM COMMITTEES:

- Selected for their expertise in the areas that they participate in
- Both MS and PhD Physicists
- Academic, Private Practice & Consulting
 - A group of peers

ABR CERTIFICATION

Partners in Evolution



INITIAL CERTIFICATION

J. ANTHONY SEIBERT, PH.D.

CERTIFICATION STEPS

- Part 1 – General
 - General Medical Physics
- Part 1 – Clinical
 - Anatomy, Physiology & Radiobiology
- Part 2 – Specialty Specific (DMP, NMP or TMP)
 - Advanced (Clinical & Technical) MP in Specialty
- Part 3 (Oral)
 - Clinical MP and Communication in Specialty

REQUIREMENTS

MEDICAL PHYSICS

PART I General and Clinical ... for all new applicants

CERTIFICATION REQUIREMENTS

PART I – GENERAL & CLINICAL

- Enrolled in a CAMPEP Accredited Educational Program
 - MS or PhD
 - DMP (Professional Doctorate)
 - Certificate Program (Alternate Pathway Credential)
 - Completion of Structured Mentorship (IMP's)

PART I – GENERAL & CLINICAL

- Application window
 - September 1 to October 30
 - Exams in August
 - In Pearson-Vue Centers

PART I – GENERAL & CLINICAL

- If you fail the clinical part only you retake just the clinical part
- If you fail the general you must repeat both parts

PART I – GENERAL & CLINICAL

- If you have not passed all of Part 1 within *5 years* of being approved you must take an additional year of education in an institution that has a CAMPEP approved graduate program.
- Following the completion of the training you must meet the *current requirements* to become board eligible.

Part II & Part III (Oral)

CERTIFICATION REQUIREMENTS BOARD ELIGIBLE – PART 2 & ORAL

- Completion of a CAMPEP Residency
- Completion of a Structured Mentorship
- OR for Candidates Approved *Prior to 2014*
 - Completion of 36 months of Supervised Clinical Training
 - OR
 - Completion of a CAMPEP Residency

CERTIFICATION REQUIREMENTS BOARD ELIGIBLE – PART 2 & ORAL

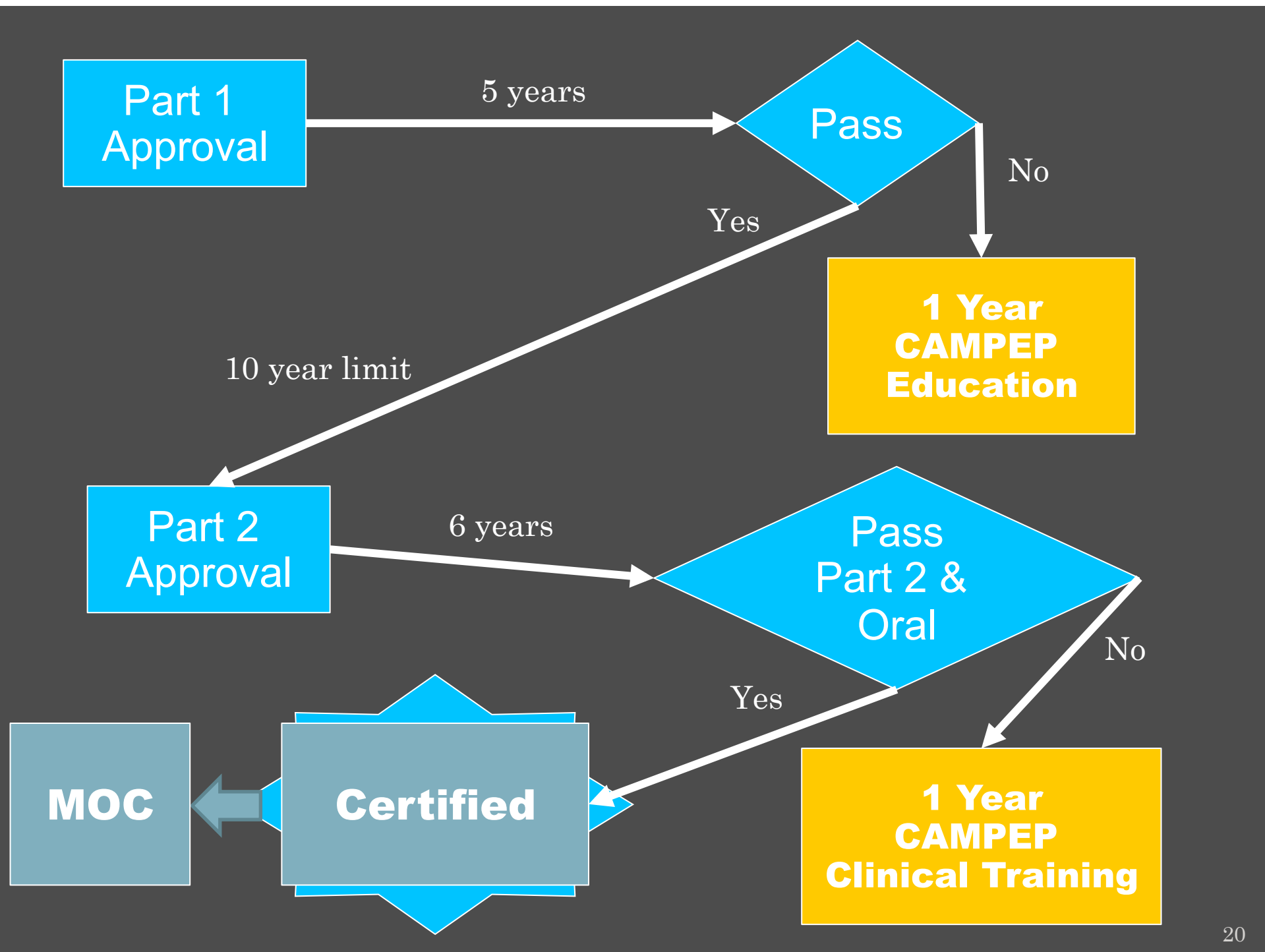
Candidates must pass Part 1 before they can take Part 2 and must pass Part 2 before they take the oral

A candidate could become board eligible and thus have the board eligible clock running without being eligible for Part 2 because they had not passed Part 1

CERTIFICATION REQUIREMENTS

BOARD ELIGIBLE



- If you do not become certified within *6 years* of becoming board eligible you must take an additional year of clinical training in an institution that has a CAMPEP approved residency
- You do not have to be a formal resident



EDUCATIONAL DETAILS & AUDITS

- **The ABR generally leaves educational details to the program directors, but we do audit a small percent of applications**

EDUCATIONAL DETAILS & AUDITS

- If you are audited, we expect
 - At least 3 advanced traditional physics courses
 - Radiobiology 
 - Anatomy and/or physiology
 - At least 4 medical physics courses similar to those on the CAMPEP list 

THIRTY-SIX MONTH CLINICAL

- **Beginning with candidates for the 2016 exam, we are asking for some detail as to the nature of the clinical training**



ORAL CATEGORIES BEGINNING 2015



DMP

Radiography, mammography, fluoroscopy, and interventional imaging

Computed tomography

MRI and ultrasound

Informatics, image display, and image fundamentals

Radiation Biology, dosimetry, protection, and safety

NMP

Radiation protection

PET and hybrids

SPECT and hybrids, including gamma cameras

Radiation measurements

Clinical procedures

TMP

Radiation protection and patient safety

Patient-related measurements

Image acquisition processing and display

Calibration, quality control, and quality assurance

Equipment

MP IC EXAMS

PART 1 & PART 2

PEARSON VUE CENTERS

ORAL

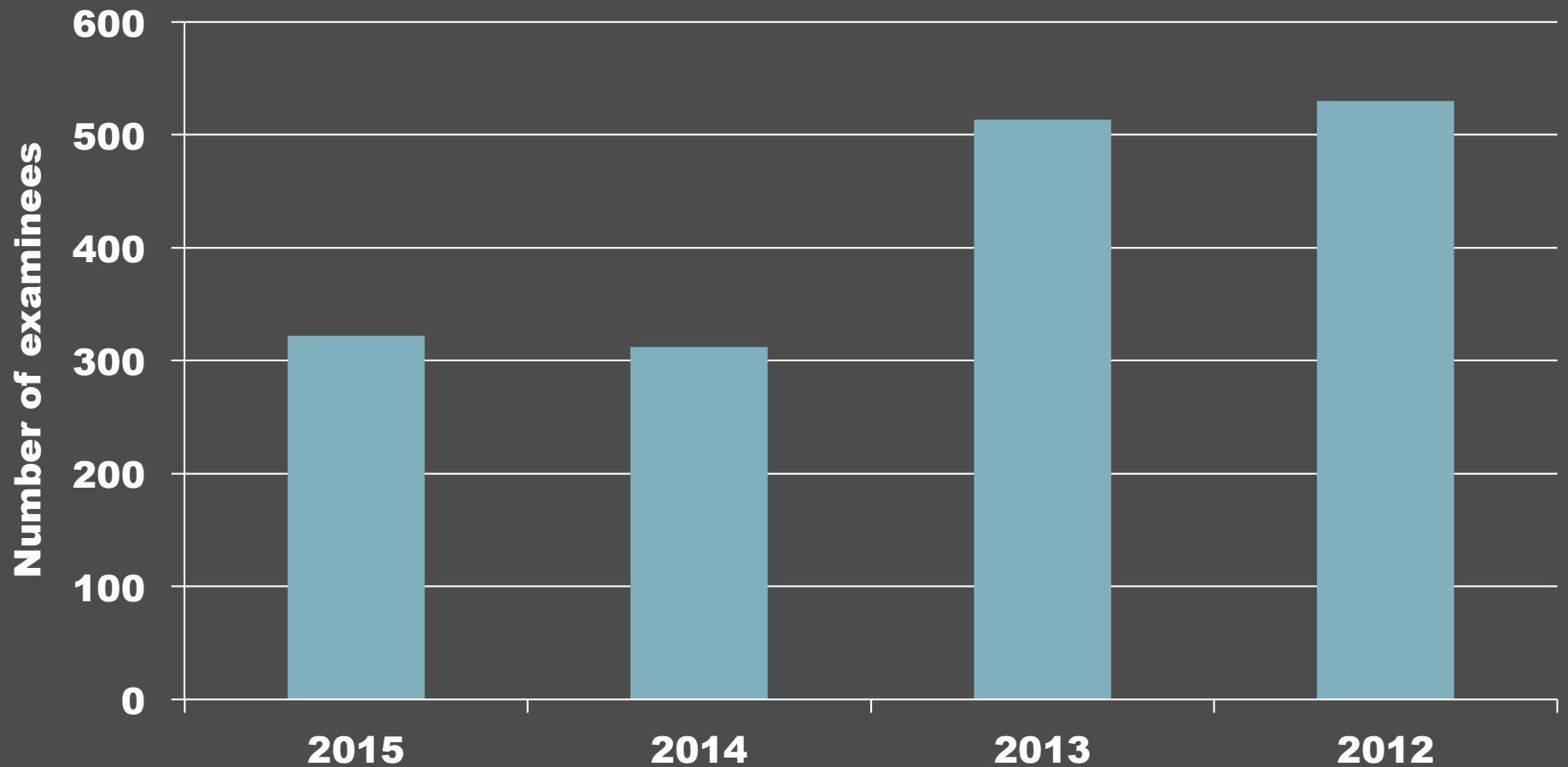
LOUISVILLE

MP EXAM TABLE

	MP Part 1 General & Clinical	MP Part 1 Clinical ONLY	MP Part 2 (All Disciplines)	MP MOC (All Disciplines)
Registration	Varies	Varies	Varies	Varies
Tutorial / Instructions	Untimed	Untimed	Untimed	Untimed
NDA	3 Minutes	3 minutes	3 Minutes	3 Minutes
Number of Sections	2	1	1	1
First Session	237 Minutes	87 Minutes	237 Minutes	207 Minutes
Number of Questions	80 27 Complex 53 Simple	75 (All Simple)	80 27 Complex 53 Simple	150
Break	Y, 30 Minutes	N	N	N
Second Session	90 Minutes	N/A	N/A	N/A
Number of Questions	75 (All Simple)	0	0	0
Conditioned	N	Y	N	N
Total Questions	155	75	80	150
Total Time	Approximately 6.5 hours	Approximately 2.0 Hours	Approximately 4.5 hours	Approximately 4.0 hours

Complex questions generally require multi-step calculation, accounting for three scorable units

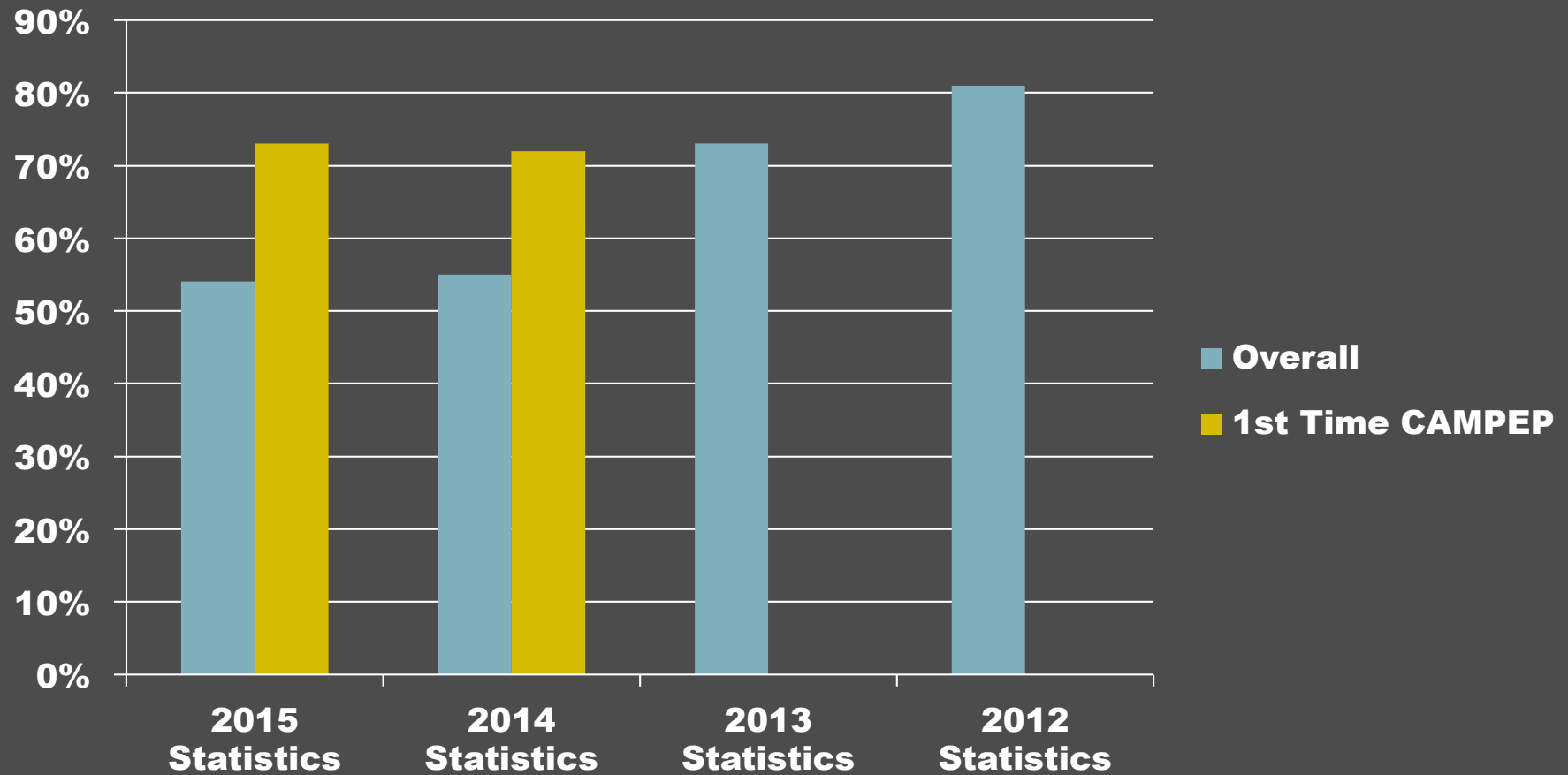
PART I – GENERAL TAKERS



MEDICAL PHYSICS

Requirements changed as of 2014

PART I – GENERAL - PASS RATES

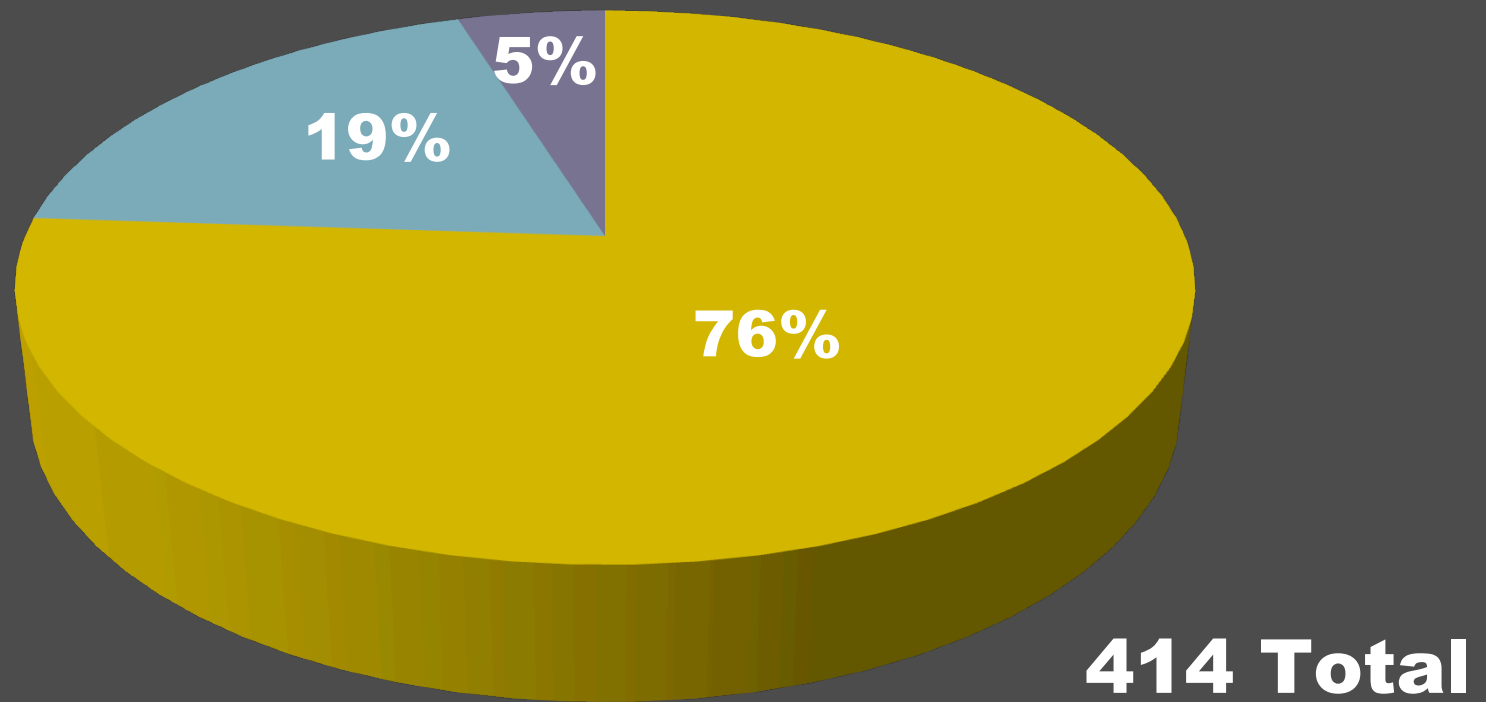


MEDICAL PHYSICS

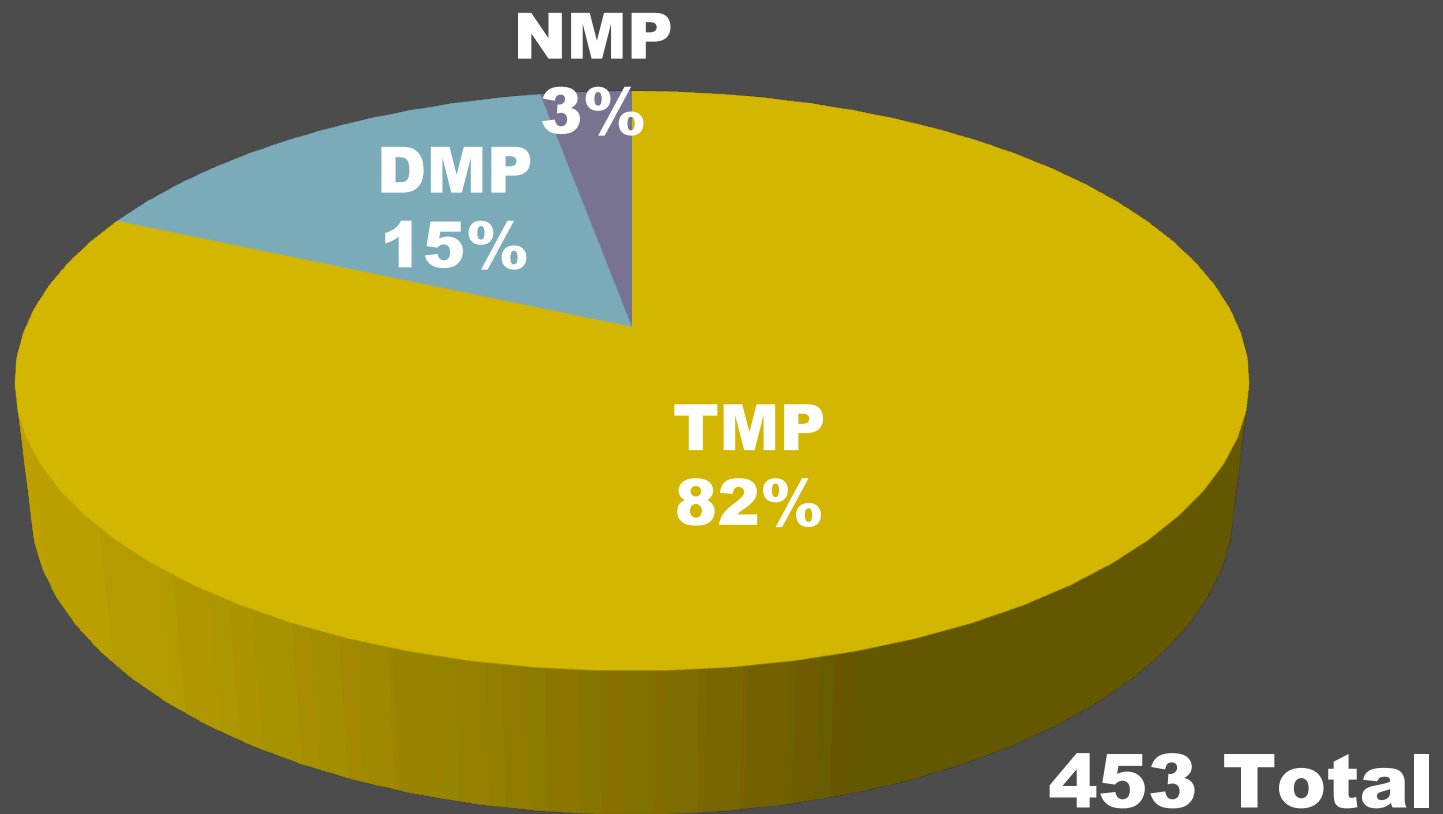
Requirements changed as of 2014

PART 2 NUMBERS – 2015

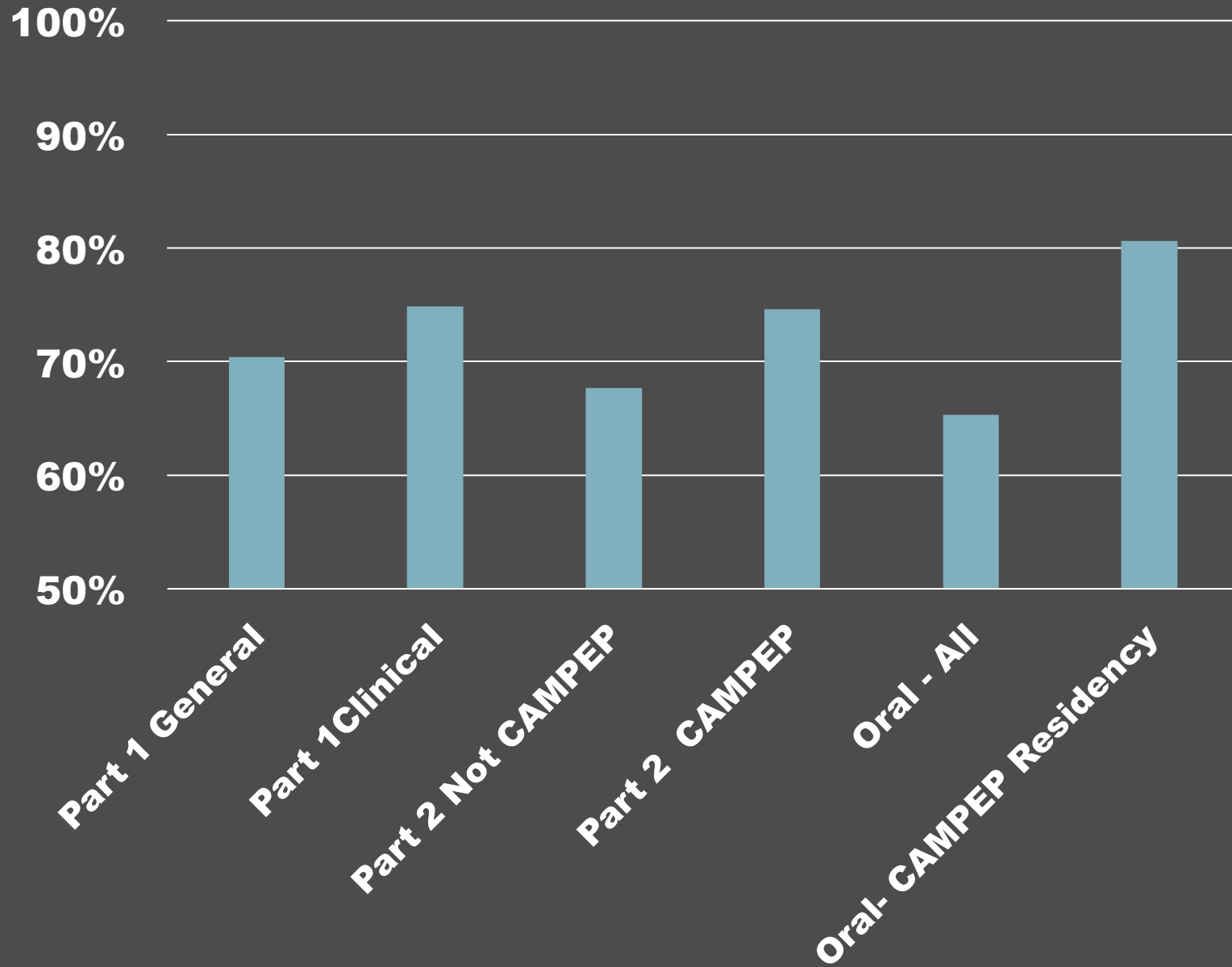
■ **TMP** ■ **DMP** ■ **NMP**



ORAL NUMBERS – 2016



PASS RATES—FIRST TIME TAKERS 2015





MAINTENANCE OF CERTIFICATION

JERRY D. ALLISON, PH.D.

UPDATED MOC REQUIREMENTS*

SIMPLE ATTESTATIONS

Part 1*

- Professionalism

Part 2*

- Continuing Professional Development

Part 3

- Maintenance of Skill

Part 4*

- Quality in practice

Updates are being implemented for Parts 1, 2 and 4!

ETA: March 2016

PART I – PROFESSIONALISM REQUIREMENTS

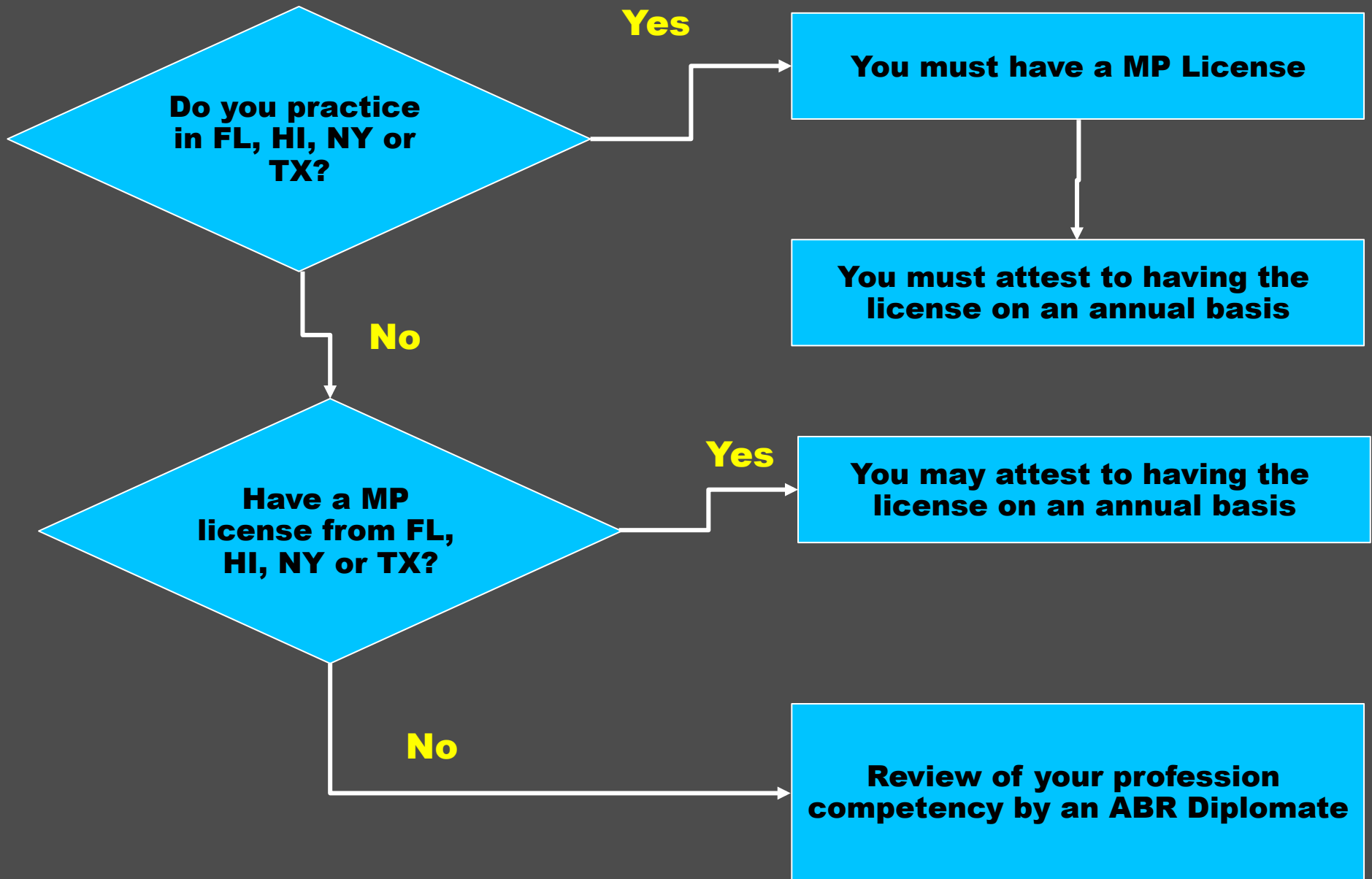
OPTION I

- If you practice in any of the four licensure states (FL, HI, NY or TX) you must have a valid unrestricted medical physics license from all of the states you practice in
- If you have a license from one of the four licensure states you may attest to having the license

PART I – PROFESSIONALISM REQUIREMENTS

OPTION 2

- If you do not have a MP license you must have an ABR Diplomate attest to your professional standing*
- * Implementation target March 2016
 - Previous implementation:
 - Six competency abstracts attested to by an ABR MP Diplomate and an ABR DR or RO Diplomate





ATTESTING TO PART 1

- Each year you will be asked to attest to meeting Part 1
- Lookback is five years
- ABR selects a small percentage of MP Diplomates for an annual MOC compliance audit
 - If ABR selects you for an audit, you will be asked to provide details
 - It is important that you keep copies of your license or professional attestations

PART 2 – LIFELONG LEARNING

- The lifelong learning requirement has not changed but a simple attestation is being implemented

CONTINUING EDUCATION (CE)

- 75 CE credits every three years, at least 25 of which must be Self-Assessment CE (SA-CE).
- Look-back includes previous 3 years for CE and SA-CE.

PART 2- LIFELONG LEARNING

Basic Requirement, 1 Year
 $16 \frac{2}{3}$ CE + $8 \frac{1}{3}$ SA CE = 25 Total CE

3-Year Look-back
 50 CE + 25 SA-CE = 75 Total CE

CONTINUING EDUCATION (CE)

- CE : Traditional continuing education credit (CE)
 - CAMPEP credits
 - ACCME Part 1 credits
- SA-CE : Self assessment continuing education credit (SA-CE)
 - SAMs
 - SDEPs (Self-Directed Educational Projects)
 - Enduring Materials
 - AAPM Virtual Library
 - Radiographics

ATTESTING TO PART 2

- Each year you will be asked to attest to having completed the Part 2 requirements*
- If ABR selects you for an audit, you will be asked to document your CE and SA-CE credits
 - CME gateway report
 - CAMPEP transcript
 - Other CE certificates
- * Implementation target March 2016
 - Previous implementation:
 - CE and SA-CE credits were stored in your “MyABR” account

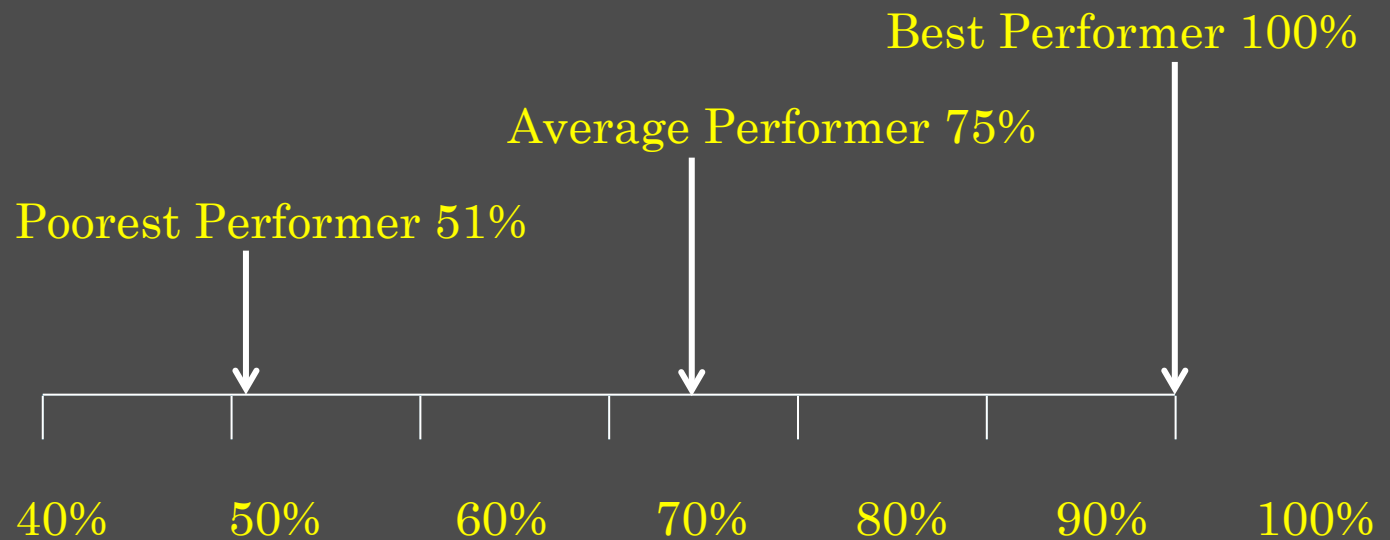
PART 3 – COGNITIVE EXPERTISE

- The Part 3 requirement has not changed.
- You must pass an MOC exam in each ten year period
- You may take the exam anytime
- Lookback is 10 years

AVERAGE ITEM DIFFICULTY

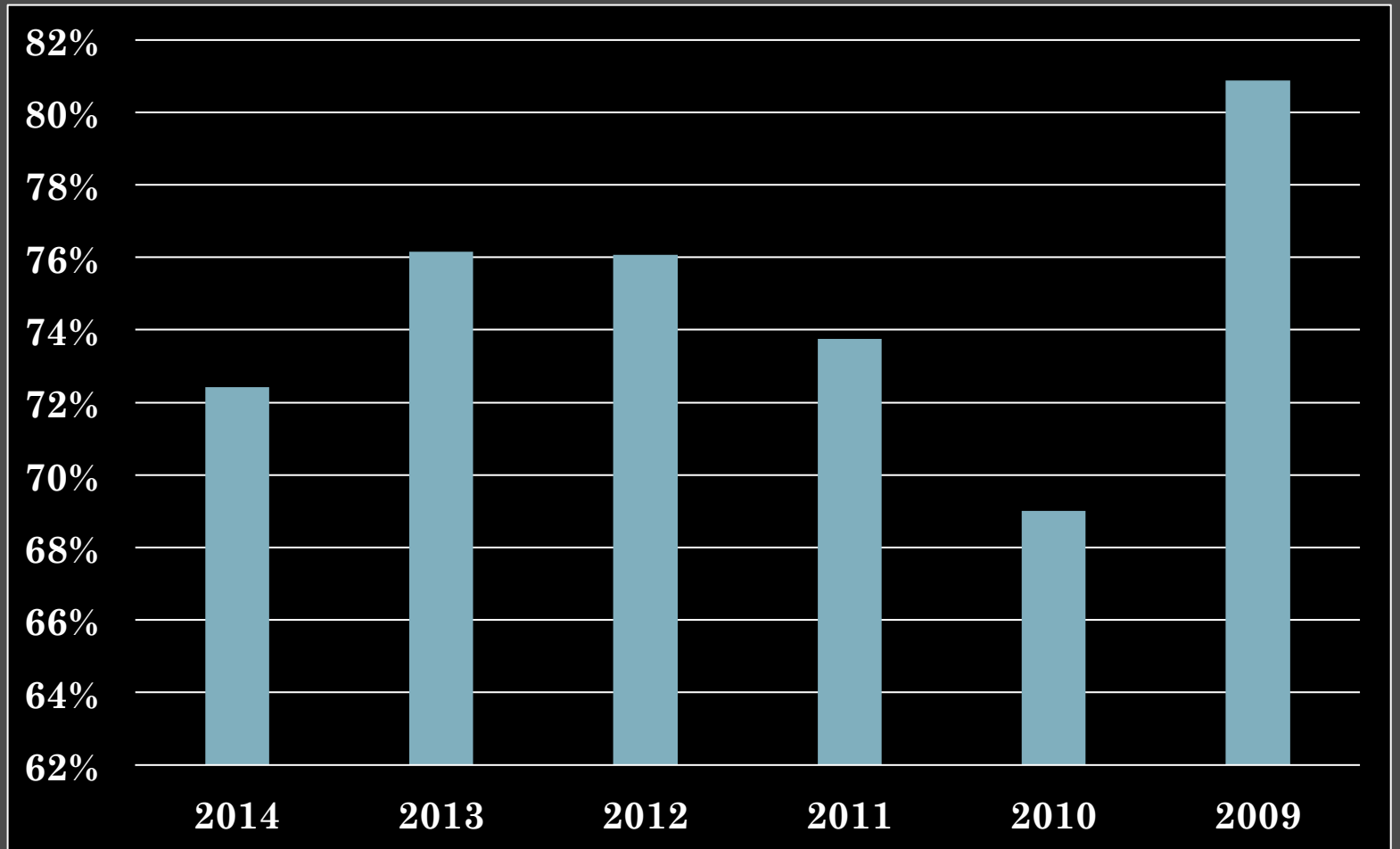
- A good exam has moderately difficult items. Items that are too easy (>90% correct) or too hard (<20 % correct) do not separate the good performers from the poor performers.

ITEM DIFFICULTY FOR 2014



Average performance is close to optimal from a statistical perspective

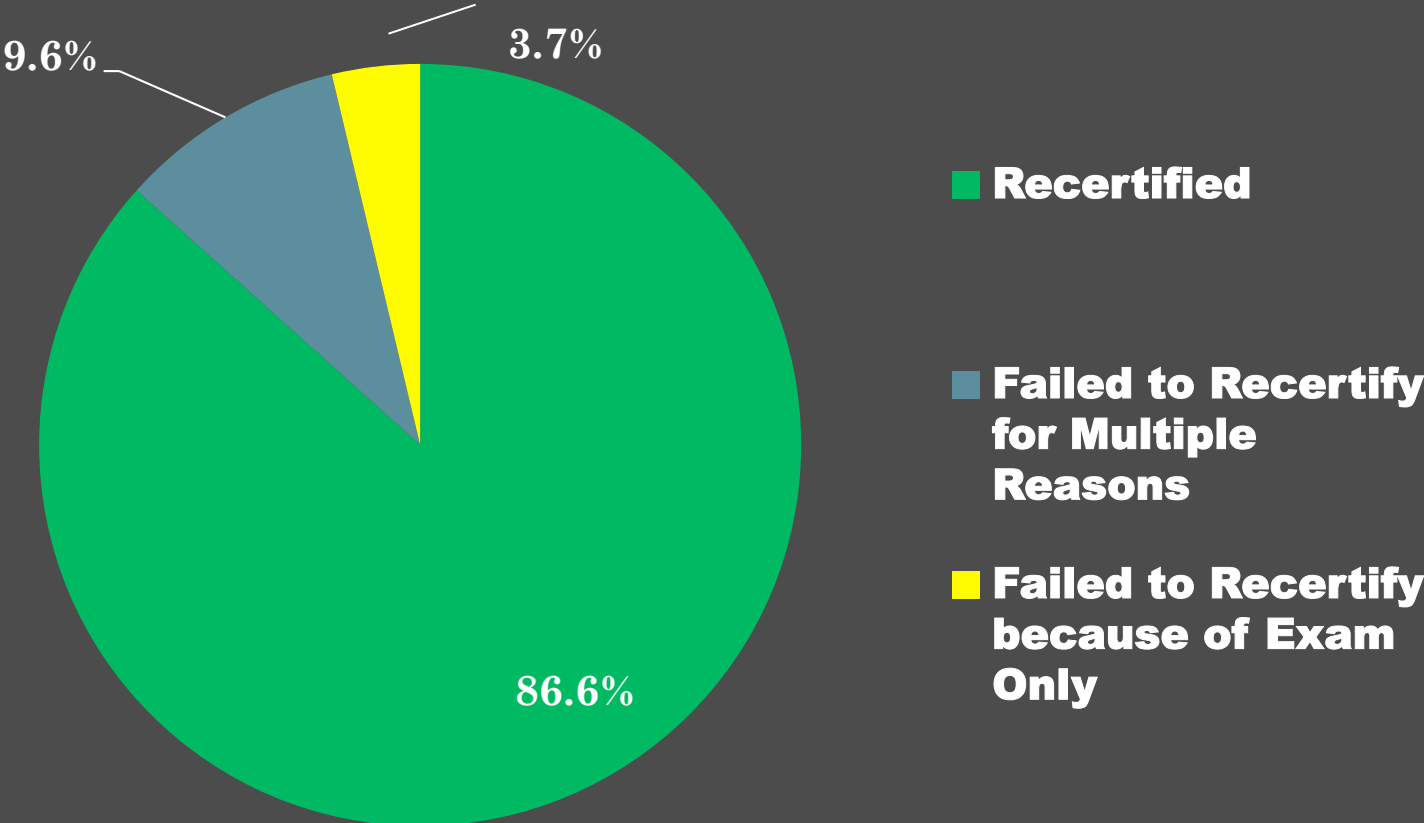
ITEM DIFFICULTY



FAILURE TO SUCCESSFULLY COMPLETE THE EXAM

- For time limited ABR MP certificates:
 - If you fail to pass the cognitive exam within 10 years you are shown as
 - Certified – Not Meeting MOC Requirements
 - If you do not pass the exam within 11 years you are shown as
 - Not Certified
 - There is a reentry path that does not require additional formal training and can be completed in no more than a year

MOC STATUS – FIRST 3 10 YEAR COHORTS



SUMMARY OF PART 3 EXAM

- Six years experience with MP MOC Exam
- Exam is very reliable
- Exam discriminates well
- Number of takers has increased as expected

PART 4 – PRACTICE QUALITY IMPROVEMENT

- Requirement has not changed but the scope of PQI projects has substantially expanded
- Lookback is 3 years

Part 4 Requirement

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graph TD; A[Part 4 Requirement] --> B[PQI Project  
One project every three years]; A --> C[Participatory PQI]
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**PQI
Project**
One project every
three years

**Participatory
PQI**

Participatory PQI

MANY possibilities

- Check the ABR website for possibilities
 - <http://www.theabr.org/moc-dr-comp4#PQI%20Activities>
 - If you have any questions call the ABR help line
 - PQI projects remain an excellent way for medical physicists to add value to their departments

ATTESTATION TO PART 4

- MP Diplomates must attest each year that Part 4 requirements are being met*
- If ABR selects you for an audit you will be asked to provide documentation of PQI Projects and/or PQI Participatory Activities accomplished.
- * Implementation target March 2016
 - Previous implementation:
 - Abstracts on the ABR website for each PQI project with data on the “Plan, Do, Study, Act” phases of each project

In the mid-nineteen-nineties it was observed that candidates had a wide range of academic and clinical training

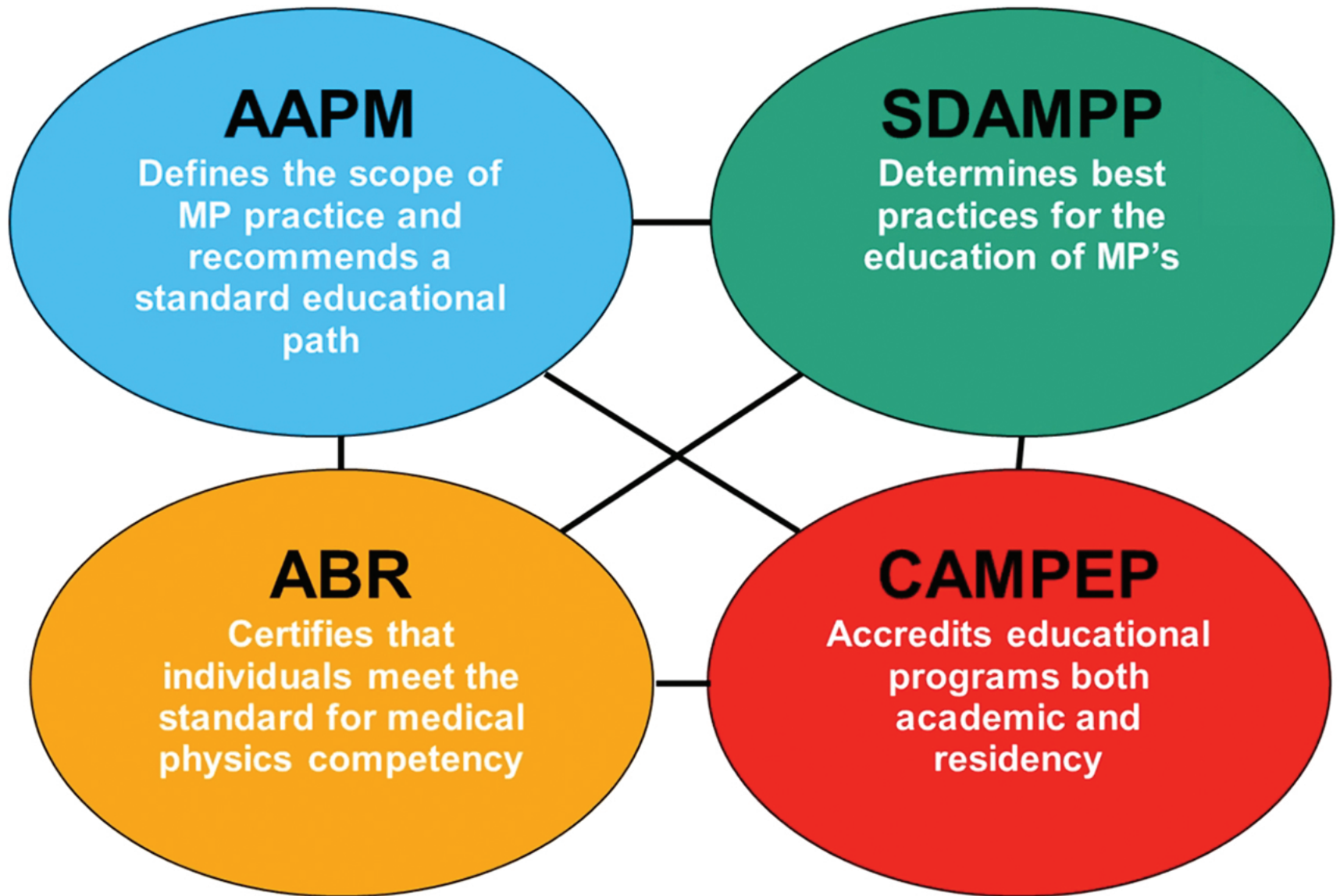
This led to a wide range of performance on the ABR certification exams

The ABR in 2002 announced the requirement for CAMPEP training with an implementation date of 2012

Subsequently there were several profession wide summits and the AAPM board recommended that a residency be required

The ABR adopted this recommendation for 2014 implementation

Initial data supports that CAMPEP education and a CAMPEP residency improves candidate performance



How does the ABR Set the Standards for required training

**The ABR reviews the recommendations of
other groups and uses those to set
standards**



SDAMPP/AAPM/ABR Webinar: ABR Update

Question/Answer Session

- To send questions to the speaker, please enter them into the question box in the GoToWebinar Control Panel.

