

# Diagnostic Part 1 and General Overview of CAMPEP/Residency

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#### Overview

## CAMPEP

- New enrollees in the ABR Medical Physics Initial Certification must complete part of training at a CAMPEP institution before becoming board certified
- CAMPEP imaging residencies have limited space

## Part 1 preparation

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# CAMPEP and ABR

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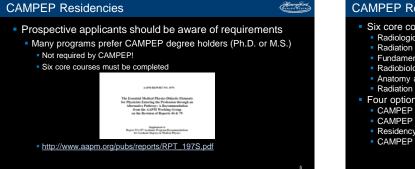
#### 2012/2014 Initiatives

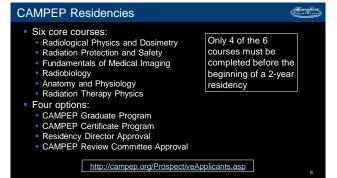
 Required CAMPEP program enrollment/completion as part of ABR certification

- Where are we today?
  - To register for Part 1, you must be enrolled in or have completed a CAMPEP program (graduate, residency, certificate, DMP)
  - If you took (or will take) Part 1 in 2014 or later, you MUST
  - complete a CAMPEP residency to sit for Part 2
  - If you took Part 1 before 2013, you only need 3 years clinical experience to become "Board Eligible" for Part 2

# CAMPEP Residencies

- Currently 17 CAMPEP-accredited imaging residencies
  - Six offer nuclear medicine option
  - Majority take one resident per year
  - 11 CAMPEP "slots" in 2017 Medical Physics Match
  - Applications from ~October through January
  - Results in late March
  - Several non-CAMPEP imaging slots
  - List of dates, programs at <u>natmatch.com/medphys/</u>





## **CAMPEP** Residencies

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- Coursework and background at the discretion of the CAMPEP residency program director
- Individual programs may or may not accept the minimum background (80% of incoming residents are from CAMPEP)
- Knowing the rules and policies is helpful for anyone without a CAMPEP degree
- Clearly state in your cover letter how you satisfy (or plan to satisfy) background requirements

Be your own advocate!

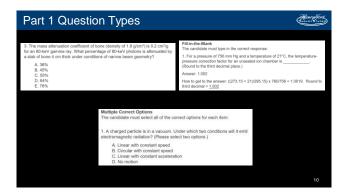
## Preparing for Part 1

 Apply for Part 1 after enrollment in a CAMPEP program (graduate, certificate, residency, DMP)

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- Apply September 1 through October 30 in the prior year
- Complete Part 1 within 5 years of approval
- If not completed, must complete additional year at CAMPEP institution
- Part 2 approval must come within 10 years of passing Part 1
  - Part 2 approval comes at the completion of residency
  - If you're in a Ph.D. program, don't take too early!

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| Part 1 Question Types   | Hampford<br>Contractor  |
|---|---|
| <ol> <li>Eighty-five percent of an injection of <sup>gom</sup>Tc sulfur colloid is cleared from the<br/>blood by the liver. What is the time-integrated activity coefficient in the liver?<br/>(Assume a biological half-life of 3 hours.)</li> </ol> | Point and Click   |
| A. 1.4 hours<br>B. 2.5 hours<br>C. 3.1 hours<br>D. 4.3 hours  | The candidate must identify a region on an image:<br>1. Point and click on the pectoralis muscle. |
| Answer = B<br>Comments:<br>Lamda_eff = 0.693/3 h + 0.693/6 h = 0.3465/h (2 h)<br>0.65*2 h/0.693=2.5 h   |   |
| 4. Given an administered activity of 2.8 mCi, a time-integrated activity coefficient of 2.5 hours, and an S factor [liver—kidney] of 3.9 × 10 <sup>-8</sup> rad/µCi-h, what is the absorbed dose to the kidney from the liver?                        |   |
| A. 18 mrad<br>B. 21 mrad<br>C. 27 mrad<br>D. 34 mrad  |   |
| Answer = C<br>Comments:<br>2800 uCi*2.5 h*3.9 x 10 <sup>*/d</sup> rad/uCi-h = 27 mrad   |   |

| Name         Value         Name         Nam         Nam         Nam  |
|---|
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| The second |
| Baltzmenn's k 528 × 101 T TO Bone-martow (red), Colon, Lung, 0.12<br>constant Stomach, Breast, Remainder Tasues*  |
| Assorbe n, 0.511 <sup>32</sup> p 14.3 Gonada 0.08   |
| "Co 5.27  |
| electron II, Bildder, Oesophagus, Liver, Thyroid 0.04   |
| Charge of the g, 150 × 10 <sup>-1</sup> Bone surface, Brain, Salivary glands, 0.01  |
| Mass of the proton 908  |
| Mass of the 939 WY 2.67 * Remainder tissues:<br>Adrenais. Extrathoracic (ET) region.  |
| reaton Gall bladder, Heart, Kidneys,  |
| Assumd speed of c 1540 Long Pances Postate (1).   |



## Results

- Exam results posted approximately 4 weeks after exam
   Pass rates around 70%
- Must pass both clinical and general exams
  - Fail clinical only -> retake only the clinical
  - Fail general only -> retake whole exam

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