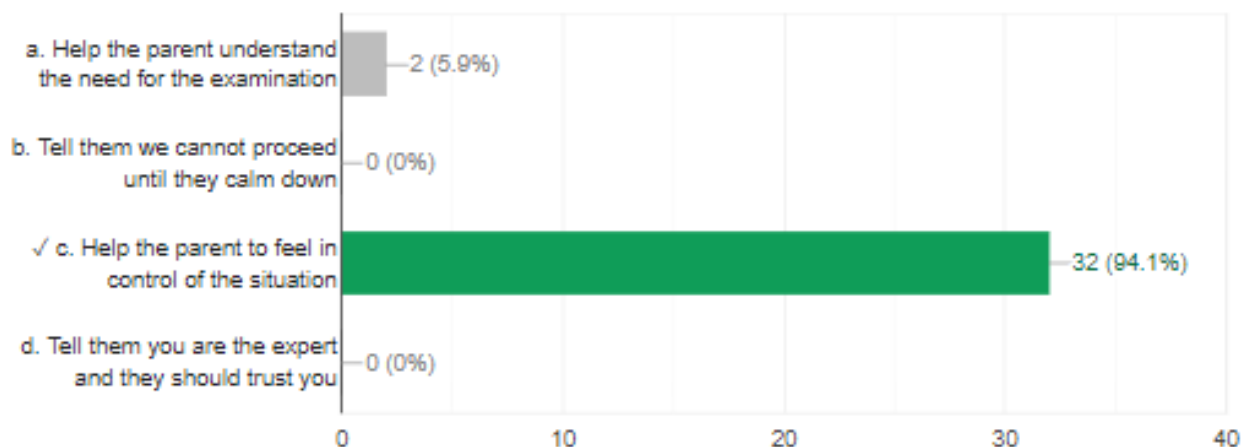


# Fall 2019 Symposium ABR SAMs Question Results

Interacting with Patients and Parents, How to Effectively Communicate. Sam Brady

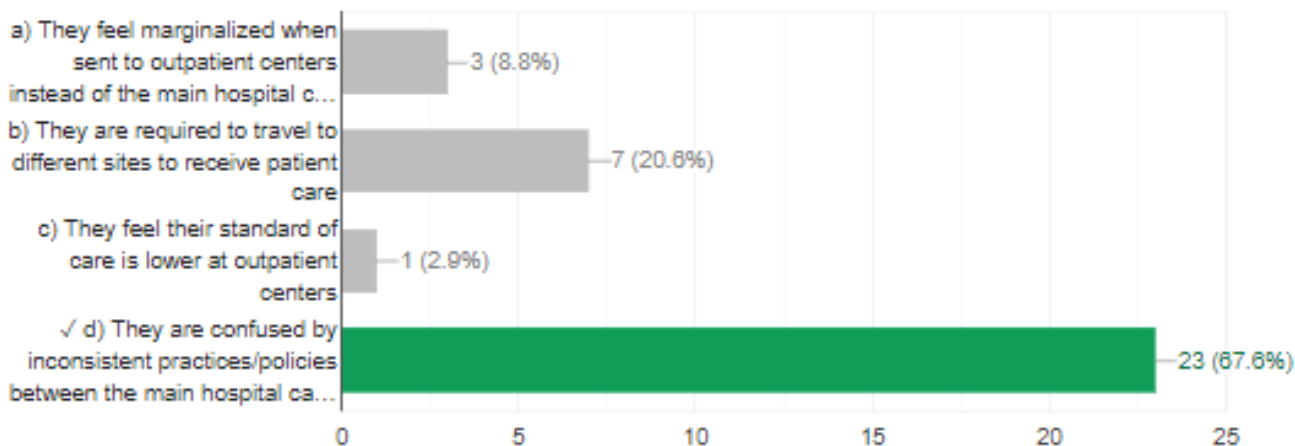
**Q1. Feelings of helplessness and concern parents have for their child may come across as agitation or aggression. What is a common technique to help diffuse the parent's agitation?**

32 / 34 correct responses



**Q2. When surveyed, why are parents of chronically ill patients found to be most frustrated when visiting large multi-location radiology clinics?**

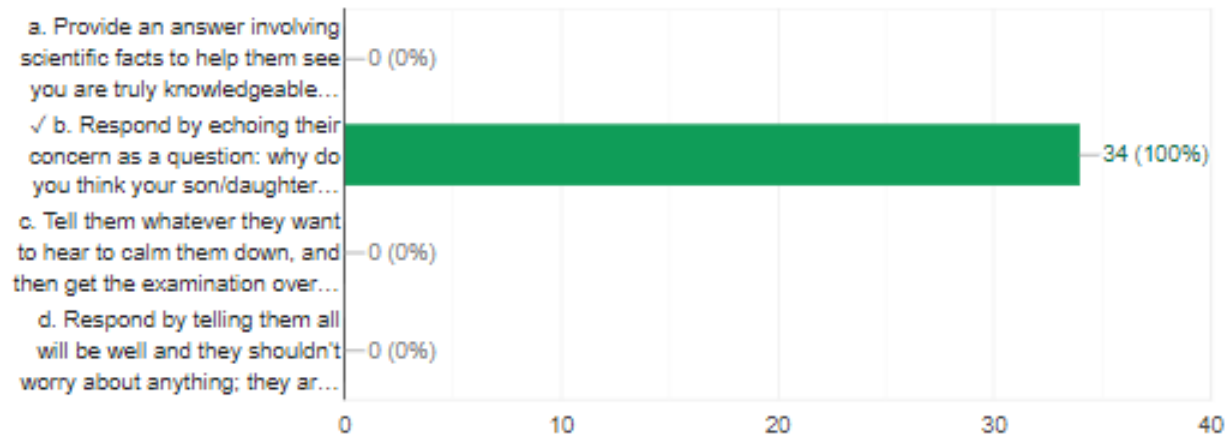
23 / 34 correct responses



# Fall 2019 Symposium ABR SAMs Question Results

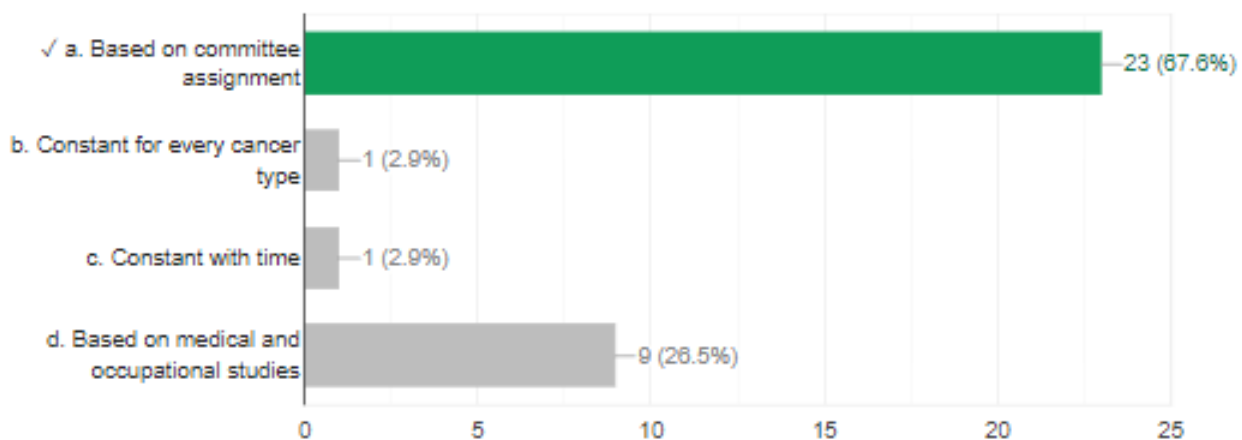
Q3. One of the best ways to answer a concerned parent's question(s) is to:

34 / 34 correct responses



Q4. Risk models (i.e.,  $Risk\ model = x \cdot ERR + (1-x) \cdot EAR$ ) in BEIR VII report are:

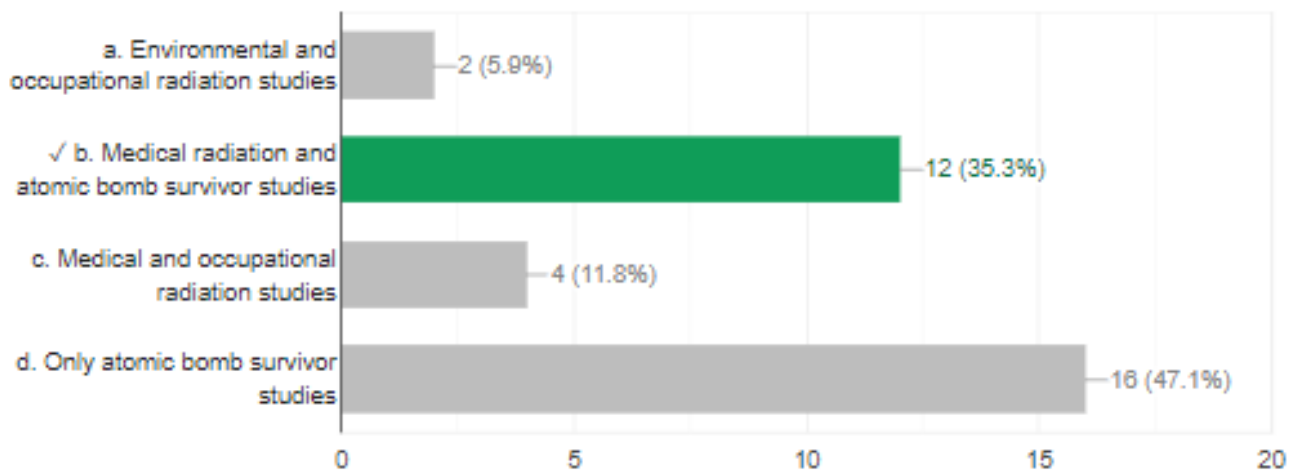
23 / 34 correct responses



# Fall 2019 Symposium ABR SAMs Question Results

## Q5. The BEIR VII report derives its risk estimates from

12 / 34 correct responses

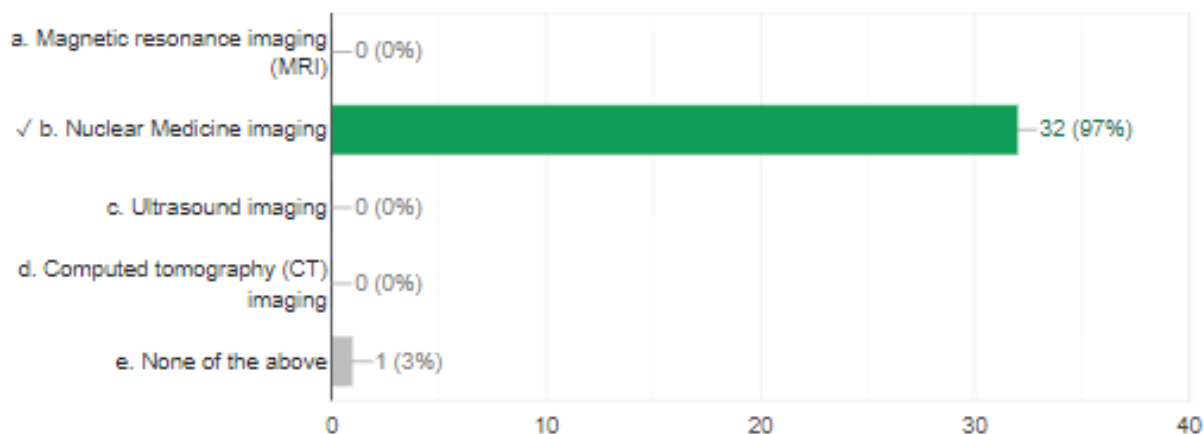


# Fall 2019 Symposium ABR SAMs Question Results

Functional Liver Image Guided Hepatic Therapy (FLIGHT) – Planning and Assessment of the Liver Function after Treatment in Different Dose Regions using HIDA Scans – Colin Huang

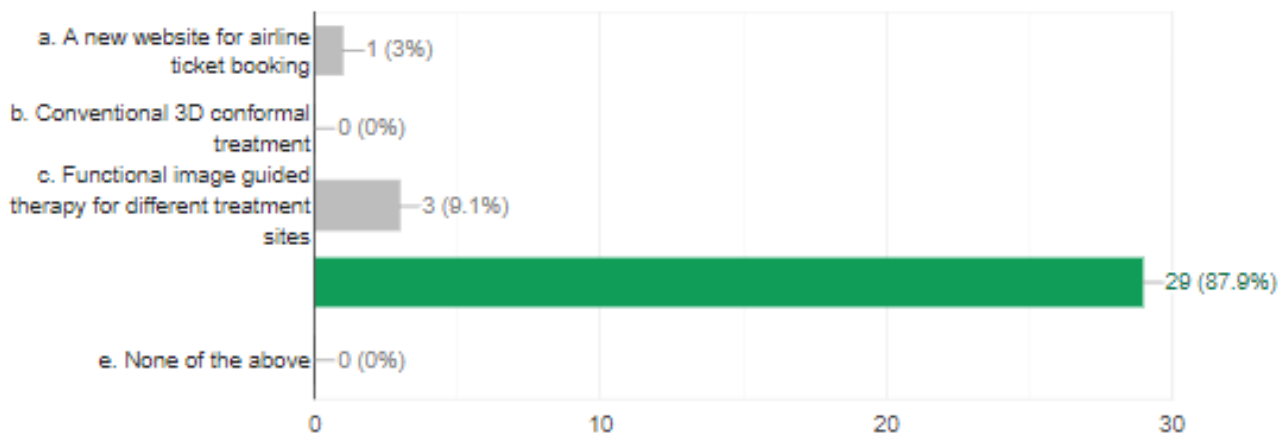
## 1. Hepatobiliary iminodiacetic acid (HIDA) scan is a type of:

32 / 33 correct responses



## 2. In this presentation, FLIGHT is:

29 / 33 correct responses

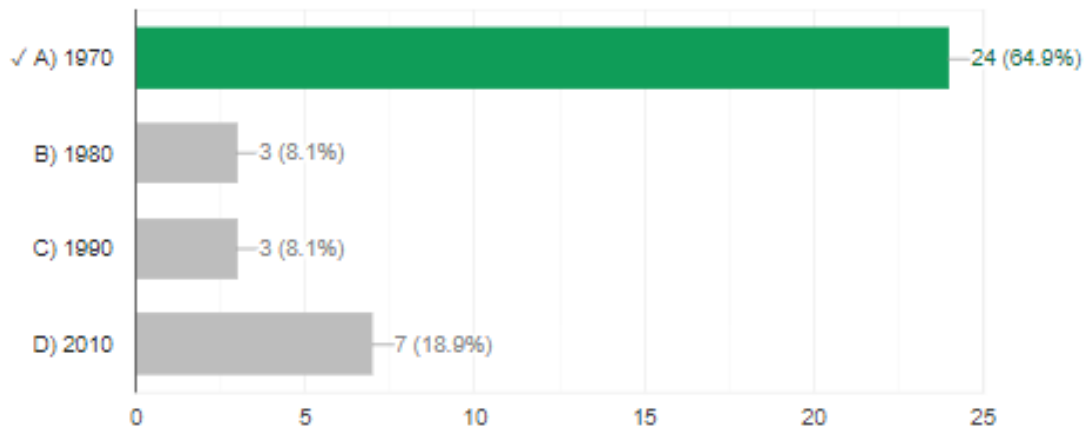


# Fall 2019 Symposium ABR SAMs Question Results

PHASER – A Global Cancer Cure Solution – Peter Maxim

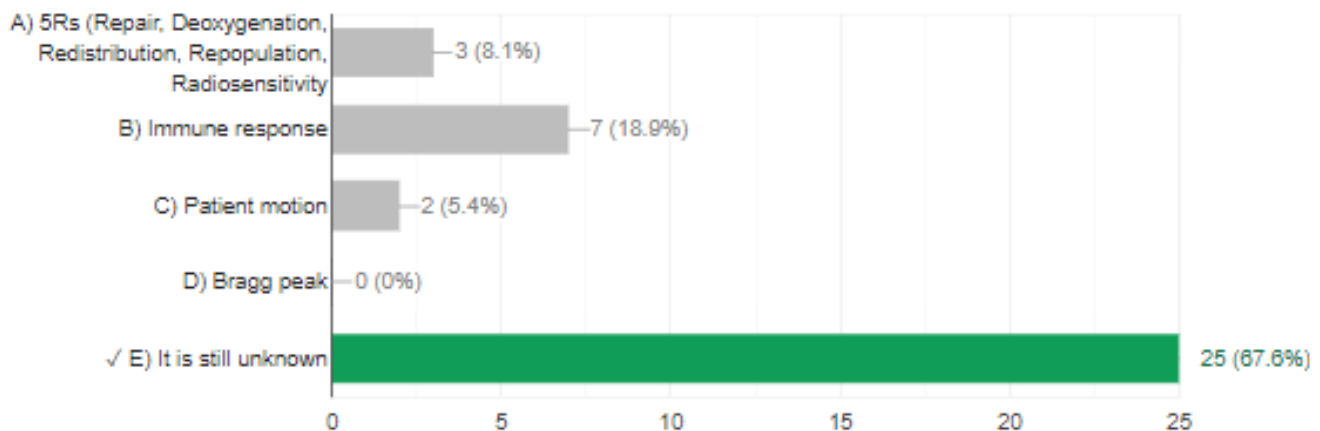
## 1. When did the first report of ultra-high dose rates of electron radiotherapy causing hypoxia in normal tissue get published?

24 / 37 correct responses



## 2. Which one is the fundamental reason for normal tissue sparing when using FLASH proton therapy?

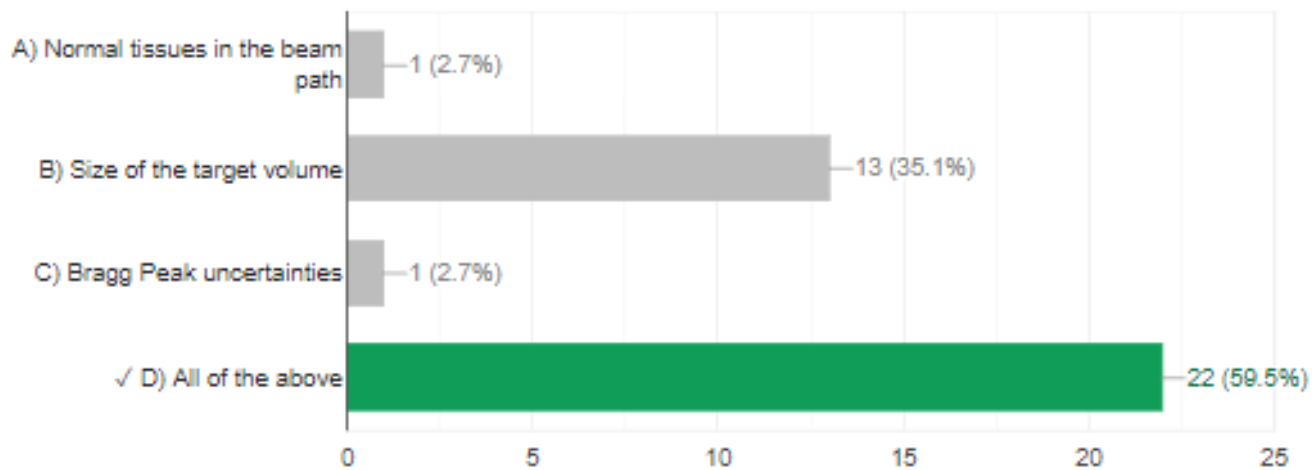
25 / 37 correct responses



# Fall 2019 Symposium ABR SAMs Question Results

3. The key challenge in using FLASH proton therapy is \_\_\_\_\_.

22 / 37 correct responses

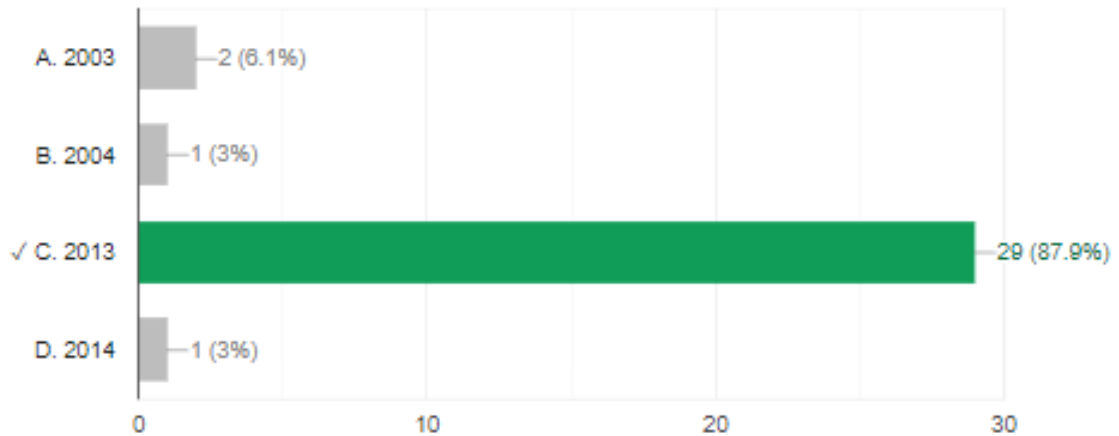


# Fall 2019 Symposium ABR SAMs Question Results

An Initiative to Incorporate Diagnostic Physics Teaching of Radiology Residents into Clinical Practice – Jie Zhang

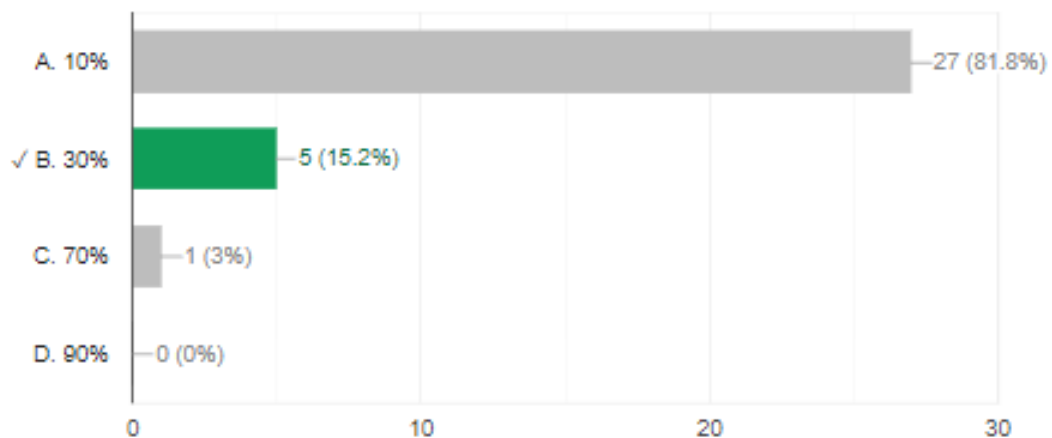
## Q1: When does the ABR Core Examination start?

29 / 33 correct responses



## Q2: Appropriately what percentage of the concepts that students receiving traditional didactic lectures can master, on average, assuming they didn't know those concepts at the start of the class?

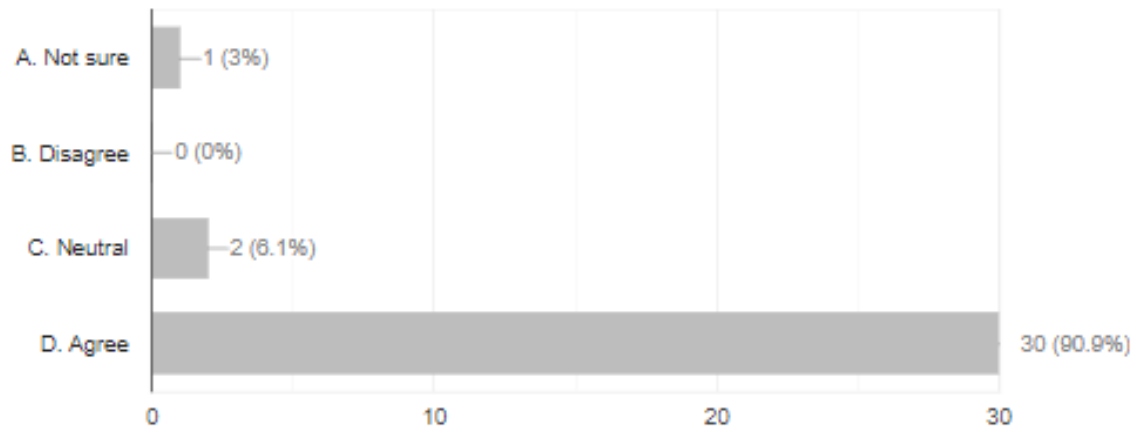
5 / 33 correct responses



# Fall 2019 Symposium ABR SAMs Question Results

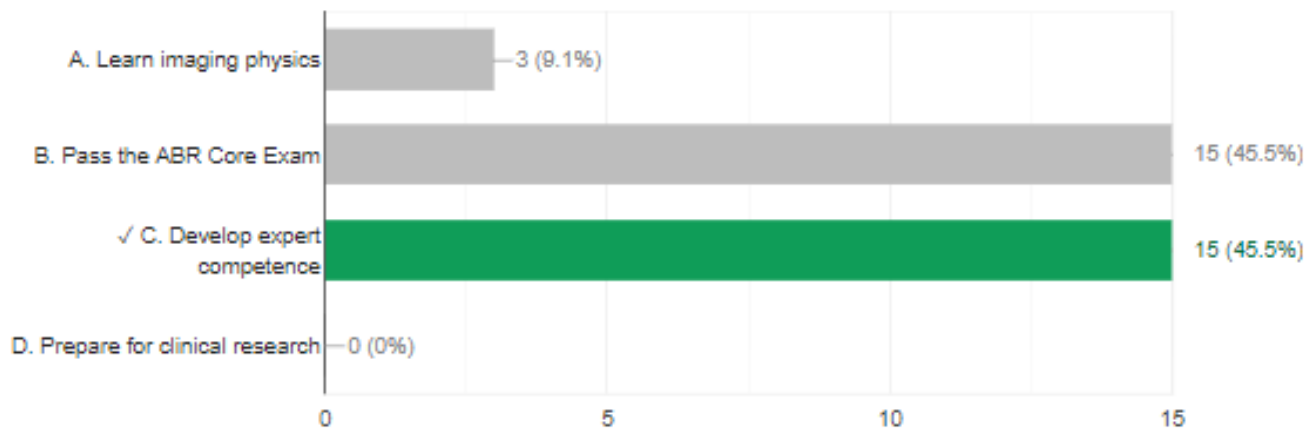
Q3: Hands-on physics education can stimulate discussion and facilitates retention of key physics concepts.

0 / 33 correct responses



Q4: The primary goal of physics education to radiology residents is to

15 / 33 correct responses



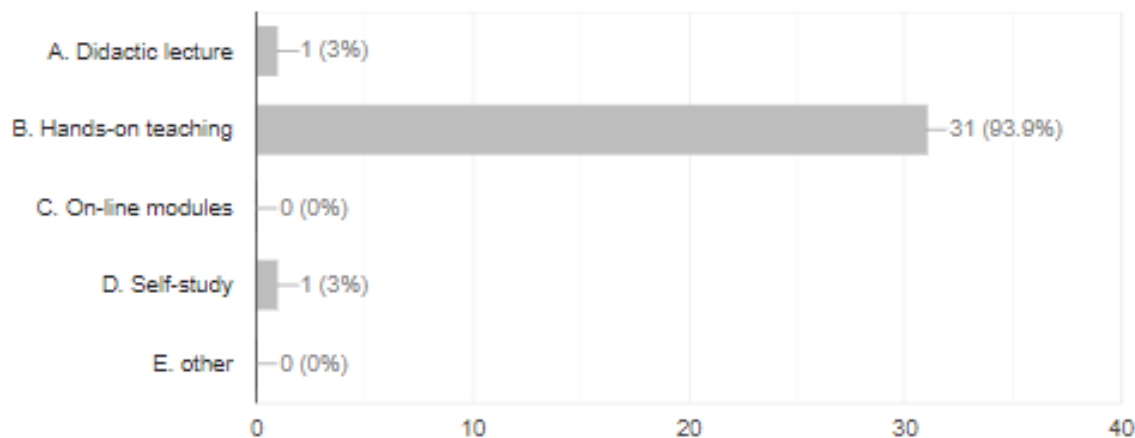


# Fall 2019 Symposium ABR SAMs Question Results

Q5: Which of the following is the approach your radiology residents prefer most to learn physics?



0 / 33 correct responses

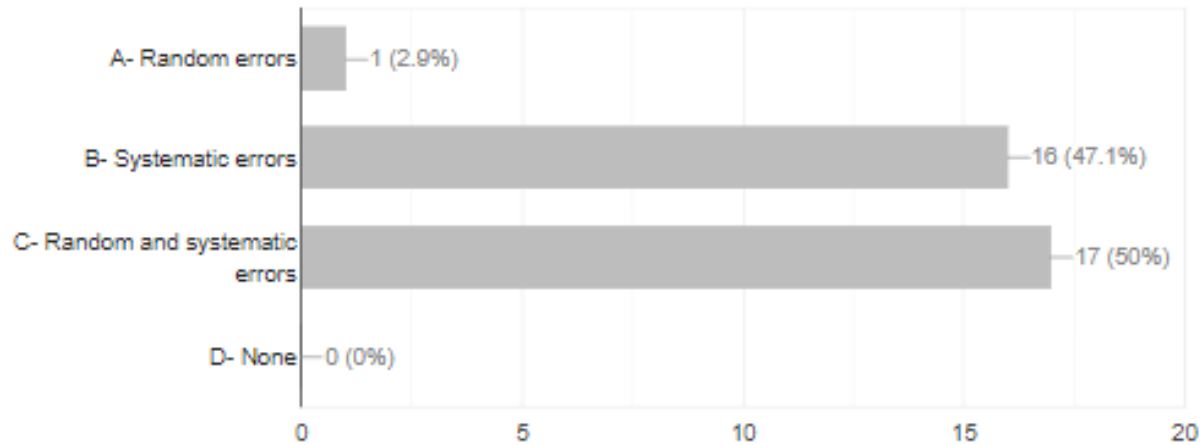


# Fall 2019 Symposium ABR SAMs Question Results

Six Degree of Freedom Alignment is Today's Era of Radiation Therapy – Christopher Njeh

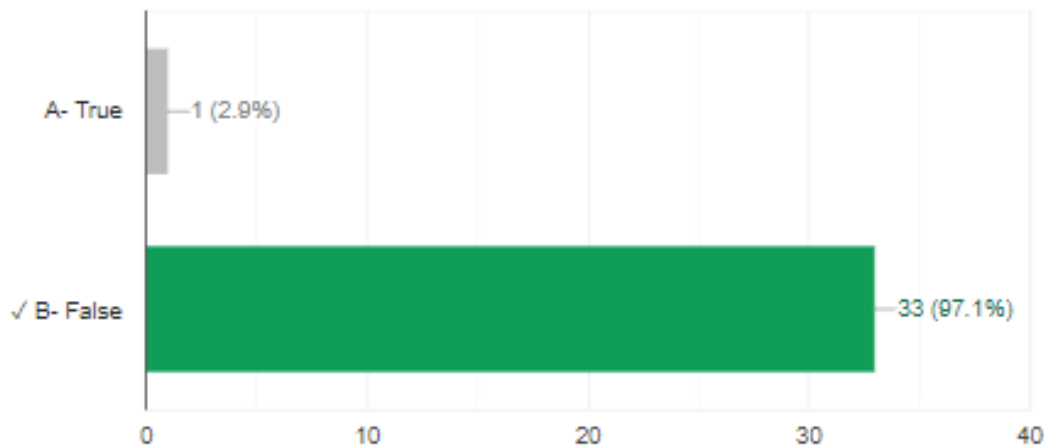
## 1: Target delineation is a significant source of setup error in radiation therapy and causes what type of uncertainties

0 / 34 correct responses



## 2- The use of IGRT with a 6DOF couch can eliminate all setup uncertainties

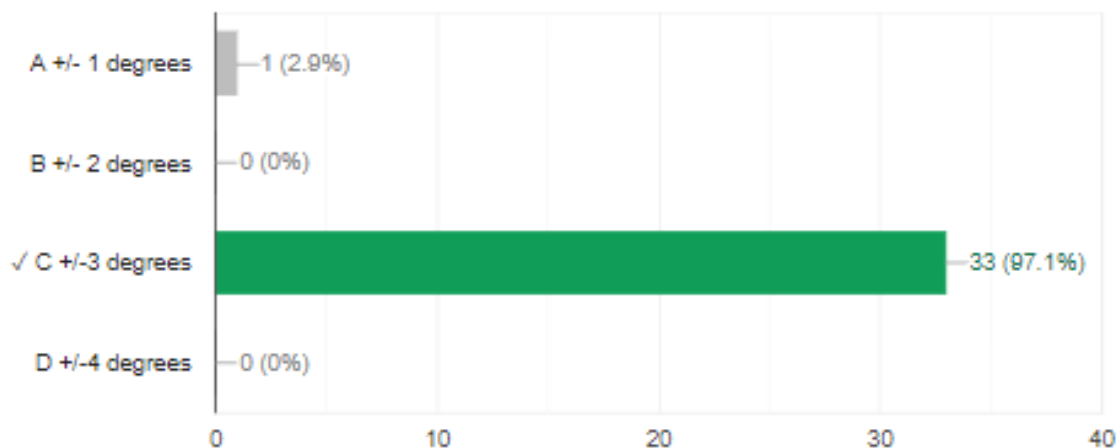
33 / 34 correct responses



# Fall 2019 Symposium ABR SAMs Question Results

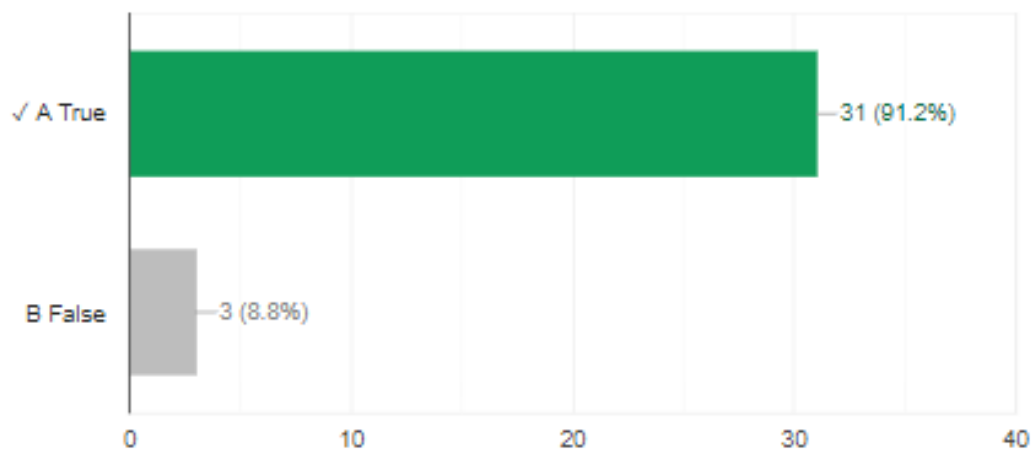
3- 6DOF couch have limitations on how much rotational corrections can be applied. Elekta HEXAPOD is limited to

33 / 34 correct responses



4- The magnitude of rotational setup errors using 6DOF couch are dependent on the location of the center of mass of the alignment

31 / 34 correct responses

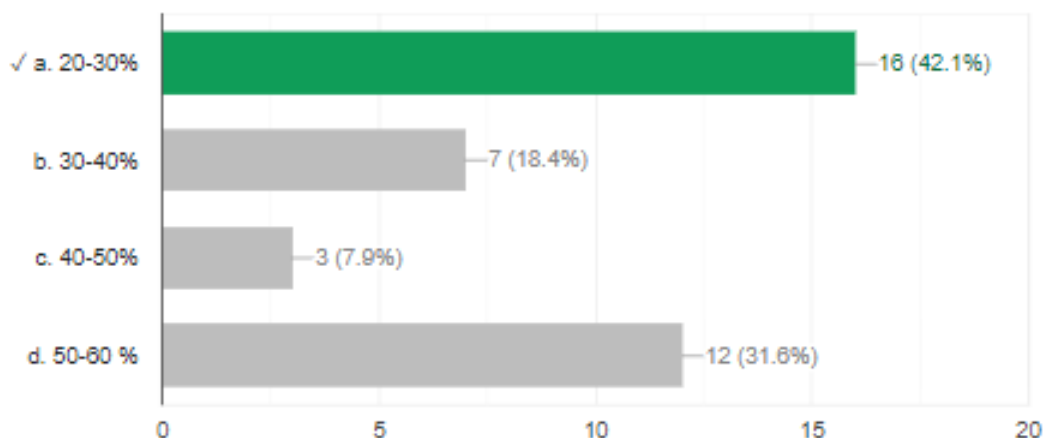


# Fall 2019 Symposium ABR SAMs Question Results

New Horizons in Thoracic SBRT – Julianne Pollard-Larkin

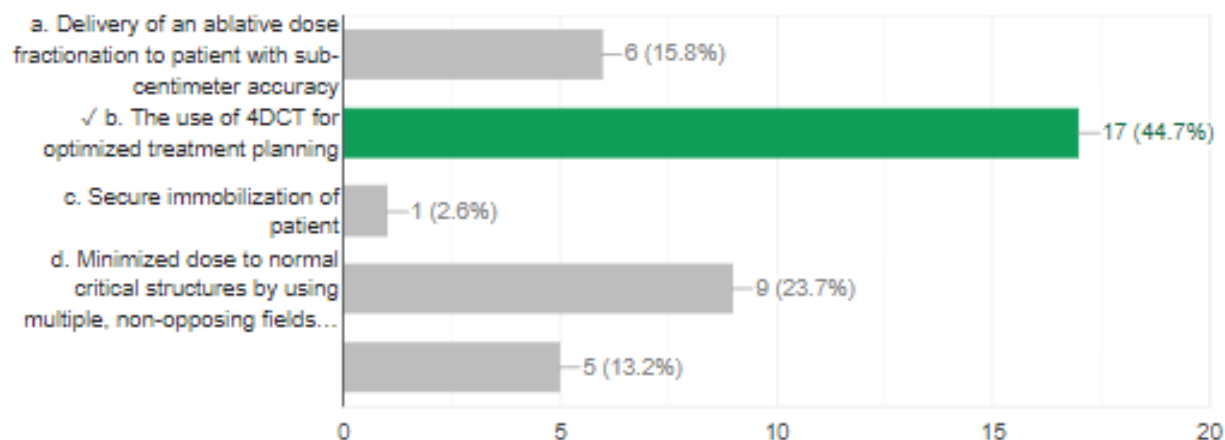
1) What is the typical 5-year survival rate for medically inoperable stage I non-small-cell lung cancer (NSCLC)?

16 / 38 correct responses



2) Which of the following characteristics is not a hallmark of SBRT:

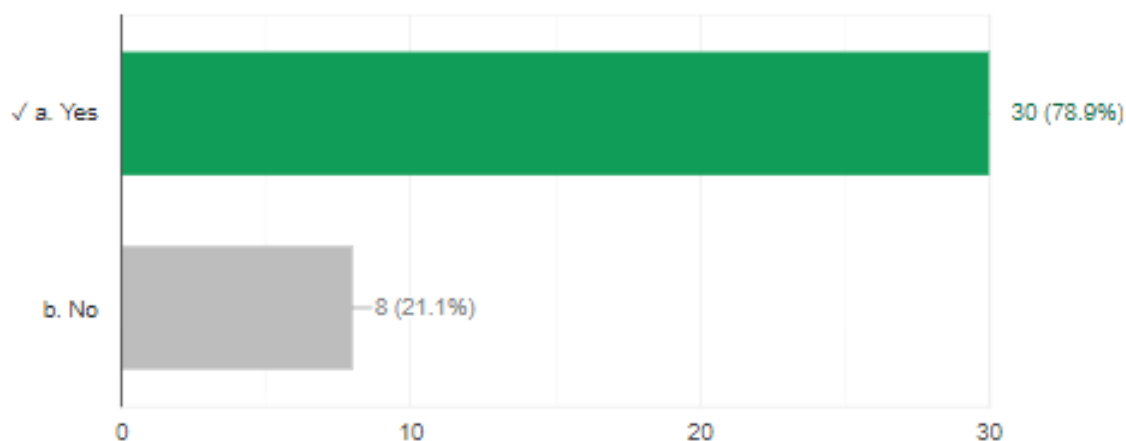
17 / 38 correct responses



# Fall 2019 Symposium ABR SAMs Question Results

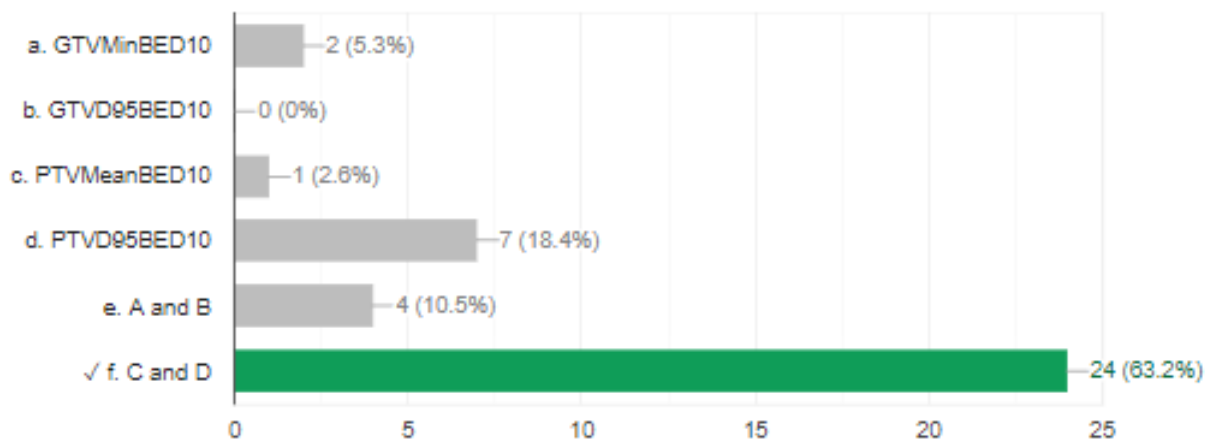
3) According to ASTRO's 2017 "Guideline on Stereotactic Body Radiation Therapy for Early Stage Non-Small Cell Lung Cancer", are 3-fraction regimens of SBRT contra-indicated for centrally-located lung tumors compared to more peripheral lesions?

30 / 38 correct responses



4) According to some findings by Dr. Chang at MD Anderson, which parameters in SBRT treatment plans should be considered for optimal local control?

24 / 38 correct responses

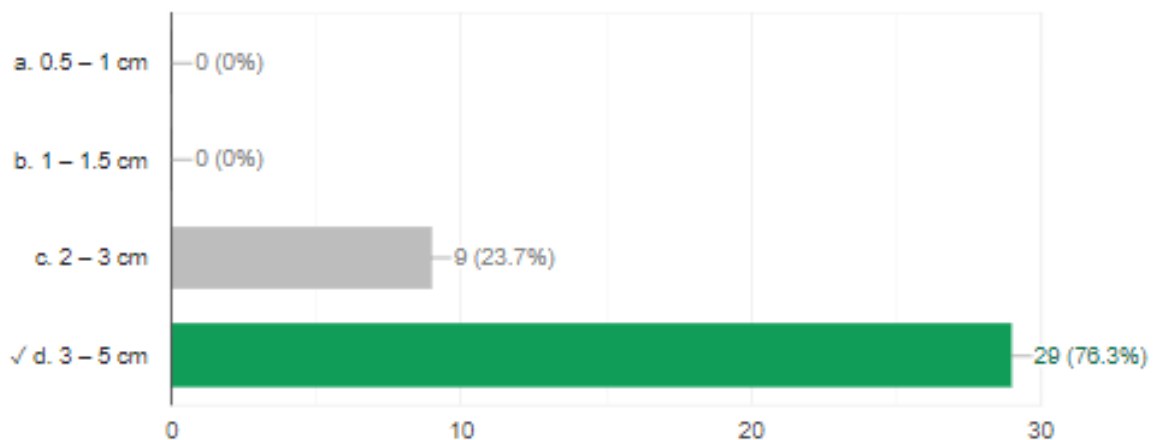


# Fall 2019 Symposium ABR SAMs Question Results

5) According to a paper by Buyyounouski et al, thoracic tumor motion can reach up to (max):



29 / 38 correct responses

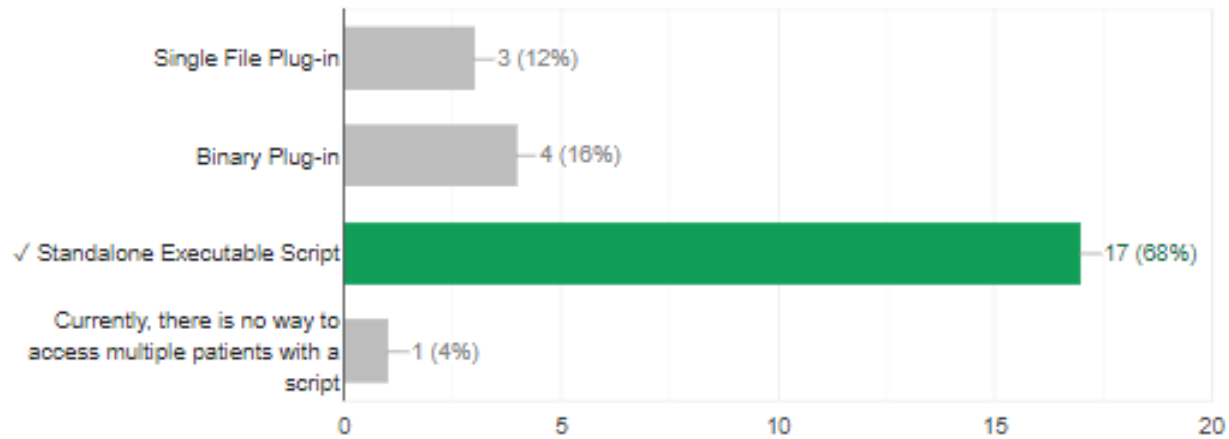


# Fall 2019 Symposium ABR SAMs Question Results

Practical Scripting with Eclipse Scripting API (ESAPI) – Dominic DiCostanzo

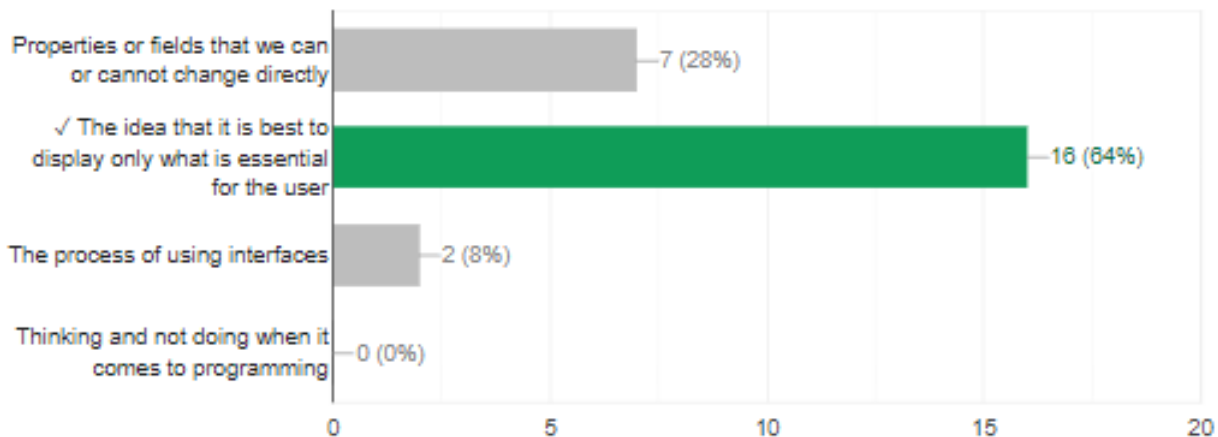
If we want to access multiple patients with the same script, we should use what type of script?

17 / 25 correct responses



In OOP the term Abstraction refers to:

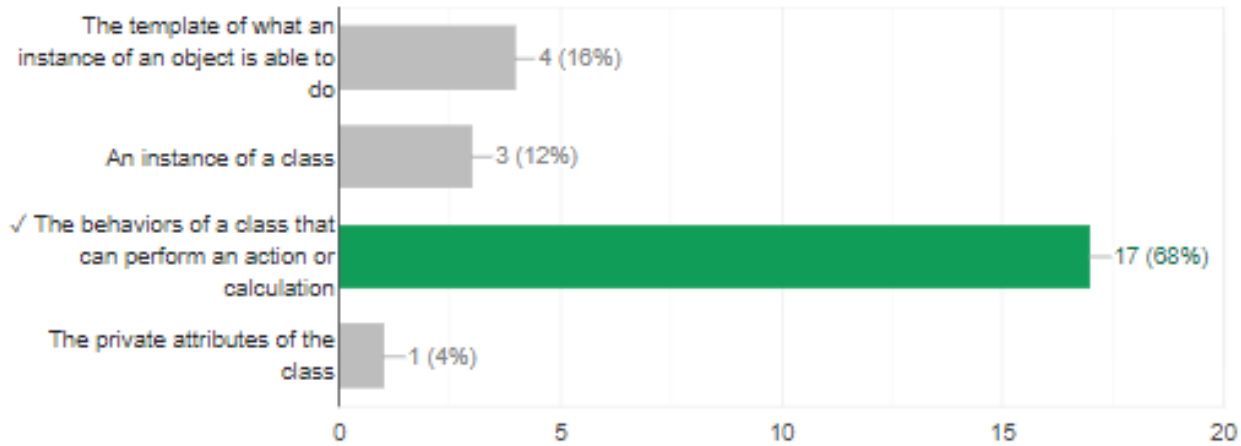
16 / 25 correct responses



# Fall 2019 Symposium ABR SAMs Question Results

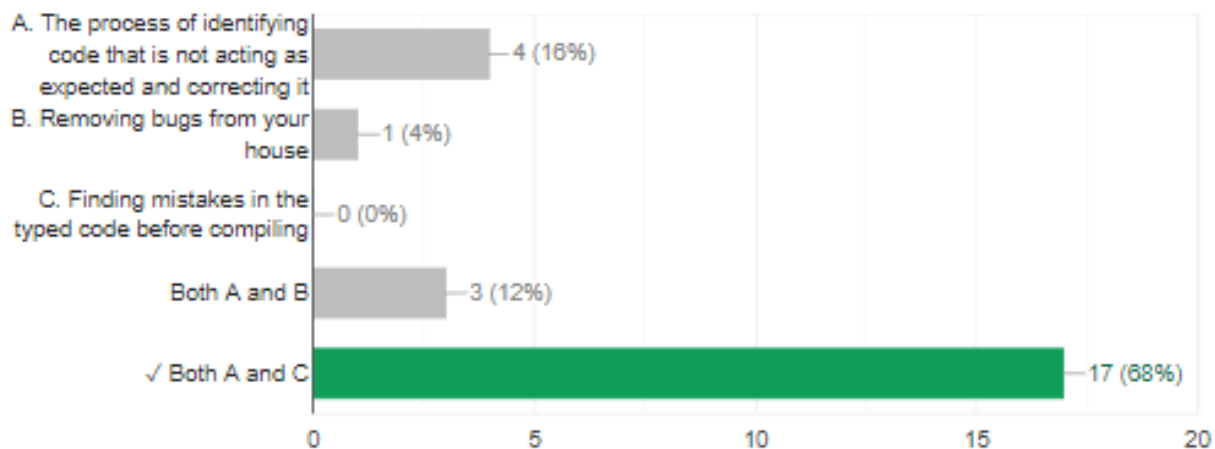
## A method refers to:

17 / 25 correct responses



## Debugging refers to

17 / 25 correct responses





# Fall 2019 Symposium ABR SAMs Question Results

C# has native support for DICOM files.

21 / 25 correct responses

