Pathology Trainees Experience and Attitudes on

Use of Digital Whole Slide Images

Supplemental Appendix 1: Baseline Survey

SURVEY OF RESIDENTS IN PATHOLOGY

	MEDICAL TRAINING								
1.	Where did you attend medical school?								
2.	Did you complete a post-sophomore pathology fellowship year in medical school?								
	□ Yes □ No								
	□ I am currently a post-sophomore fellow								
3.	In addition to viewing PowerPoint slides during medical school histology/pathology training , how many hours did you spend using glass slides and/or digital images? (For example, a semester long course with a 2-3 hour lab per week is approximately 25-30 hours) Please estimate the number of hours you spent using:								
	 a. A traditional microscope with glass slides: 								

b. Digital whole slide images (virtual microscope with pan and zoom viewing on a computer monitor):

		1-5 hours 6-10 hours 11-25 hours 26-50 hours 51-100 hours 1 never used d	•		•				
4.		gin residency h)		in patho	ology	? (dropdown response)			
	□ N/A (student fell		_ (year)						
			RES	SIDENCY	'				
5.	What is your cur	rent year of pa	thology	residen	cy tra	aining?			
	□ First year □	Second year	□ Th	nird year		□ Fourth year			
	□ N/A (post-sopho	more/student f	ellow)		□ Fiff	th year or higher			
6.	Do you think you will attend any of the following meetings in the next 12 months?								
	 □ USCAP (United States and Canadian Academy of Pathology) □ CAP (College of American Pathologists) □ ASCP (American Society for Clinical Pathology) □ Other □ No meetings in the next 12 months 								
7.	Approximately houring your resid					jical pathology have you ha	ad		
	□ < 1 month	□ 9-10 m	onths		□ 22-	-24 months			
	□ 1-2 months	□ 11-12 n	nonths		□ > 2	24 months			
	□ 3-4 months	□ 13-15 n	nonths						
	□ 5-6 months	□ 16-18 n	nonths						
	□ 7-8 months	□ 19-21 n	nonths						
8.		•		_		t pathology have you had opdown response)			

reside = < 10 = 10-25 = 26-50 = 51-1 101-25	residency and/or fellowship: (dropdown response) < 10 cases 10-25 cases 26-50 cases 51-100 cases 101-250 251-500									
		ВІ	REAST PAT	THOLOGY						
10. What a	10. What are your thoughts on interpreting breast pathology?									
		Strongly disagree 1	Disagree 2	Slightly disagree 3	Slightly agree 4	Agree 5	Strongly agree 6			
	pathology me more s than pes of									
B. Breast challen interpre										
C. I am comy ass	onfident in essments st cases.									
11. Do you Yes No Unsu	u intend to s	specialize i	n surgical լ	oathology?						

□ >16 weeks

(Virtual microscopy is a process by which an electronic scanner converts histological slides into high-resolution digitized images known as digital whole slide images (WSI) with pan and zoom capability. The term "digital WSI" does not refer to static jpeg-style images or PowerPoint images.)

12.	2. In what ways do you use digital WSI in your residency? (check all that apply)										
	Primary pathology diagnosis (signing out or previewing) Tumor board/clinical conference Consultative Diagnosis/Consult service Didactic lectures/Practice board exams/ Teaching in general Archival purposes Research Other: Not at all (skip to Question 14)										
13.	 What percentage of cases interpreted during your previous year of residency were reviewed using (responses must add up to 100%): a. A traditional microscope (with glass slides): % b. Digital WSI: % 										
14	14. What are your thoughts on <u>H & E digital WSI</u> being used for primary diagnostic purposes? (We refer to digital WSI as digital slides)										
		Strongl		Slightl	Slightl		Strong				
		У		у	y agree		ly				
		disagre	•	•		A	agree				
		e 1	e 2	ee 3	4	Agree 5	6				
	A. <u>Accurate diagnoses</u> can be rendered using digital slides										
	B. Digital slides are useful for obtaining a second										
	ODITION										
	opinion C. Digital slides increase pathologist exposure to medical malpractice suits D. I am comfortable						0				

digital WSI for:											
a) % of cases for											
b) % of cases w											
16. Please select the respon	nse that b	est reflec	ts your o	pinion.							
Although items may seem	n redundai	nt, they de	lineate im	oortant fac	tors influe	ncing					
physician behavior. Pleas											
r y = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =											
1 2 3 4 5 6											
	Strongl Modera Slightly Slightly Modera Strongl										
	у	tely	disagre	agree	tely	y agree					
	disagre	disagre	е	3.3.2.2	agree	,g					
	е	е			3.3.2.2						
The uncertainty of patient											
care often troubles me.											
Not being sure of what is											
best for a patient is one of											
the most stressful parts of											
being a physician.											
I am tolerant of the											
uncertainties present in											
patient care.											
I find the uncertainty in											
patient care disconcerting.	_	_	_	_	_	_					
I usually feel anxious when											
I am not sure of a											
diagnosis.											
When I am uncertain of a											
diagnosis, I imagine all											
sorts of bad scenarios-											
patient dies, patient sues,											
etc.											
I am frustrated when I do											
not know a patient's	_	_	_	_	_	_					
diagnosis.											
I fear being held											
accountable for the limits of											
my knowledge.											
Uncertainty in patient care											
makes me uneasy.	_	_	_	_	_						
I worry about malpractice											
when I do not know a	_	_	_	_	_	_					
patient's diagnosis.											

15. In 5 years, I predict that in my professional practice as a pathologist I will use

The vastness of the information physicians are expected to know overwhelms me.									
I frequently wish I had gone into a specialty or subspecialty that would minimize the uncertainties of patient care.									
I am quite comfortable with the uncertainty in patient care.									
GENERAL	. PROFES	SIONAL I	NFORMA	TION					
17. What is your year of birth?			Year						
18. Which gender do you identify with?									
									
19. Which one of these groups would you say best represents your race? White Black or African American Asian American Indian/Alaska Native/Native Hawaiian/Other Pacific Islander > one race Don't know/Not sure Decline to Answer									
20. Are you Hispanic or Latino	?								
∐ No □ Yes									
☐ Don't know/Not sure									
☐ Decline to Answer									