

Note: This is Online Appendix 1 of Idrees S, Christofides N, Moodley H. An analysis of interventional radiology training needs of radiology registrars in South Africa. *S Afr J Rad.* 2025;29(1), a3192. <https://doi.org/10.4102/sajr.v29i1.3192>

**Online Appendix 1:**

**TABLE 1-OA1:** Survey

1	Name of your University:	<i>Survey Monkey 9 drop down options for 9 the universities</i>							
2	What is your gender?	Male		Female					
3	Age	<i>Survey Monkey textbox</i>							
4	What is the duration of your registrar programme?	4 Years			5 Years				
5	What is your year of study?	1st	2nd	3rd	4th	5th			
6	Are you a supernumerary registrar?	Yes		No					
7	If, Yes, what is your country of origin?	<i>Survey Monkey textbox</i>							
8	How likely are you to consider interventional radiology (IR) as a future sub-specialty?	Highly likely							
		Likely							
		Not sure							
		Unlikely							
		Highly unlikely							
9	If you are <u>not</u> considering a career in IR, Which of the following skills would you still like to learn during your diagnostic radiology training	Ultrasound guided biopsy							
		Lung nodule biopsy							
		Abscess drainage							
		Percutaneous nephrostomy insertion							
		Diagnostic angiogram							
		<b>10</b> Other: (Specify)							
11	Which of the following factors would affect your decision to consider interventional radiology? (Multiple answers possible)	Hours of work; Procedural based work; Level of stress; Other radiology sub-specialty interest; Patient interaction; Financial factors; Radiation exposure; Level of exposure to IR during registrar training; <b>12</b> Other (Please specify)							
13	How much IR exposure have you had during your training so far?	No exposure; Too little exposure; Appropriate amount; Too much exposure							
14	In what year did you get your first "hands on" exposure to IR (e.g. Percutaneous pigtail drain insertion, percutaneous nephrostomy or equivalent?)	1 <sup>st</sup>							
		2 <sup>nd</sup>							
		3 <sup>rd</sup>							
		4 <sup>th</sup>							
		5 <sup>th</sup>							
		Not yet							
15	How many weeks do you spend in a formal IR rotation during registrar time?	<i>SurveyMonkey textbox</i>							

16	Do your on call duties include IR?	Yes	No
17	If yes, which of these does it involve? (Multiple answers possible)	Abscess drainage; Nephrostomy; Cerebral angiograms; Peripheral angiograms or other angiograms; <b>18</b> Other: (Specify)	
19	How many of the following procedures have you completed <u>supervised</u> ? (Numerical answers only)	Interventional angiographic procedures; Venograms – SVC/IVC/Portal/organ; Selective organ/subregional angiograms; Percutaneous drainage procedures; Percutaneous nephrostomy; Percutaneous transhepatic biliary drainage; Ultrasound guided FNA; Ultrasound guided core biopsy	
20	How many of the following procedures have you completed <u>unsupervised</u> ? (Numerical answers only)	Interventional angiographic procedures; Venograms – SVC/IVC/Portal/organ; Selective organ/subregional angiograms; Percutaneous drainage procedures; Percutaneous nephrostomy; Percutaneous transhepatic biliary drainage; Ultrasound guided FNA; Ultrasound guided core biopsy	
21	During your IR rotation, which of the following of the facilities or equipment are used to improve your competence? (Multiple answers possible)	Skills lab; On site workshop with practice sessions; Structured training curriculum; Virtual reality training; Lectures; case library; Reporting templates; Mentorship; Attending conferences; No IR rotation; <b>22</b> Other (Specify)	
23	There is a shortage/lack of equipment in your IR department which regularly affects service delivery and training.	Strongly agree Agree Neither agree nor disagree Disagree Strongly disagree	
24	There is a shortage/lack of training personnel (e.g. consultants and nurses) in your IR department which regularly affects service delivery and training.	Strongly agree Agree Neither agree nor disagree Disagree Strongly disagree	
25	How satisfied are you with your IR training to date?	Highly dissatisfied Dissatisfied Neither satisfied or dissatisfied Satisfied Highly satisfied	
26	Should there be a separate registrar IR training stream apart from diagnostic radiology?	Yes	No
27	What areas have potential for improvement in your IR training?	<i>Survey Monkey textbox</i>	
28	What challenges do you face in your IR training?	<i>Survey Monkey textbox</i>	