Abdominal Aortic Aneurysm Ultrasound Logbook

Name

Contents

AAA Accreditation Requirements

15 Abdominal Aorta Report Records

3 Formative Assessments

1 Summative Assessment



AAA Accreditation

Abdominal Aortic Aneurysm Ultrasound Assessment

Accreditation requires (as a minimum)

1. Completion of Introductory US course

Physics, artefacts, how to use the machine and perform a scan

2. Completion of an US course covering scanning of the abdominal aorta

With theoretical and hands on components

Including how to integrate into clinical practice

3. Completion of an ultrasound logbook

15 scans with recording of images (ideally 25 scans)

Half indicated

5 positive

Scans all checked by a supervisor (may simply view images retrospectively)

Ideally scans compared to a gold standard (CT / Serial clinical exam / Formal ultrasound / Operative findings / Post mortem)

4. Completion of 3 Formative Assessments (Ultrasound Village recommendation)

Detailed and directed AAA examinations with a supervisor, going through the attached work sheet.

5. Summative Assessment (Ultrasound Village recommendation)

A formative assessment with no help / feedback, where the competence of the sonologist is completely assessed by a supervisor.

6. Testing of Knowledge

Ideally a test of image interpretation and clinical decision making ability to test knowledge rather than ultrasound ability.



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Formative Assessment **E-Aorta**

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Prepare envir						
	Lights dimmed	d if possible				
Prepare mach	nine Correct position	on			Г	
	oon oor poon	•••				
Turn machine	on					
Probe selection	on					
	Can change to Selects appro	ansducer priate transducer for	r indication			
Preset selecti		•				
	Select correct	preset				
Data entry	Enter patient /	study details				

Competent Required Instruction

Image acquisition

Aorta TS				
	Optimisation			
		Adjusts depth		
		Understands frequency adjustment		
		Adjusts focus if on machine		
		Adjusts gain & TGC		
	Late at Cons	Firm constant pressure		
	Identifies	Montobool body		
		Vertebral body		
		Aorta		
		lliac vessels		
		IVC		
		Coeliac Axis		
		SMA		
		Splenic vein		
		Left renal vein (if seen)		
		Bowel		
	T	Liver		
	rraces Aorta	down to bifurcation		
	Measures ao	rta accurately		
		Outer wall to outer wall		
Aorta LS	Ontinainanian			
	Optimises im Identifies	age		
	identifies	Aorta and fans across it		
		Differentiates aorta from IVC		
		Differentiates dorta from 1VO		
	Describes			
		Appearance of AAA (size)		
		>3cm = aneurysm		
		Appearance of thrombus		
		Appearance of retroperitoneal haematoma		
		Usually can't tell if leaking but may see haematoma / free f	uid	
A 14 a a 41				
Alternative Vie		sains the corts through the left kidney		
	Aware or ima	ging the aorta through the left kidney		
Essential C	linical Kno	wledge		
	Acts on ultras	sound findings appropriately		
		AAA stable patient		
		AAA unstable patient		
		Normal sized aorta		
		Indeterminate findings		

		Competent	Required Instruction
Record Keeping			
Stores appr	opriate images		
Writes appr	opriate report		
Machine Maintenance)		
Can replace	asound probe e printer paper (if printer attached) hine and probes safely and correctly		
Trainee Signature			
Trainee's Name			
Tutor Signature			
Tutor's Name			

A copy of this completed formative assessment form should be kept by the trainee.





Formative Assessment **E-Aorta**

Trainee:	-					
Tutor:	-					
Date:	-					
ultrasound exa At least 3 Forn The Summativ	amination by the native Assessm e Assessment	eir tutor. The tutor m	lay direct, prompefore attempting ssment process	ot and tead the final S where the		oriate.
					Competent	Required Instruction
Preparation	1					
Prepare patie						
	Position Consent / Exp	lanation				
Prepare envir						
	Lights dimmed	d if possible				
Prepare mach	nine Correct position	on			Г	
	oon oor poon	•••				
Turn machine	on					
Probe selection	on					
	Can change to Selects appro	ansducer priate transducer for	r indication			
Preset selecti		•				
	Select correct	preset				
Data entry	Enter patient /	study details				

Competent Required Instruction

Image acquisition

Aorta TS				
	Optimisation			
		Adjusts depth		
		Understands frequency adjustment		
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	Identifies	Montobool body		
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		Aorta		
		lliac vessels		
		IVC		
		Coeliac Axis		
		SMA		
		Splenic vein		
		Left renal vein (if seen)		
		Bowel		
	T	Liver		
	rraces Aorta	down to bifurcation		
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	Describes			
		Appearance of AAA (size)		
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		Appearance of thrombus		
		Appearance of retroperitoneal haematoma		
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A 14 a a 41				
Alternative Vie		sains the corts through the left kidney		
	Aware or ima	ging the aorta through the left kidney		
Essential C	linical Kno	wledge		
	Acts on ultras	sound findings appropriately		
		AAA stable patient		
		AAA unstable patient		
		Normal sized aorta		
		Indeterminate findings		

		Competent	Required Instruction
Record Keeping			
Stores appr	opriate images		
Writes appr	opriate report		
Machine Maintenance)		
Can replace	asound probe e printer paper (if printer attached) hine and probes safely and correctly		
Trainee Signature			
Trainee's Name			
Tutor Signature			
Tutor's Name			

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Formative Assessment **E-Aorta**

Trainee:	-					
Tutor:	-					
Date:	-					
ultrasound exa At least 3 Forn The Summativ	amination by the native Assessm e Assessment	eir tutor. The tutor m	lay direct, prompefore attempting ssment process	ot and tead the final S where the		oriate.
					Competent	Required Instruction
Preparation	1					
Prepare patie						
	Position Consent / Exp	lanation				
Prepare envir						
	Lights dimmed	d if possible				
Prepare mach	nine Correct position	on			Г	
	oon oor poon	•••				
Turn machine	on					
Probe selection	on					
	Can change to Selects appro	ansducer priate transducer for	r indication			
Preset selecti		•				
	Select correct	preset				
Data entry	Enter patient /	study details				

Competent Required Instruction

Image acquisition

Aorta TS				
	Optimisation			
		Adjusts depth		
		Understands frequency adjustment		
		Adjusts focus if on machine		
		Adjusts gain & TGC		
	Late at Cons	Firm constant pressure		
	Identifies	Montobool body		
		Vertebral body		
		Aorta		
		lliac vessels		
		IVC		
		Coeliac Axis		
		SMA		
		Splenic vein		
		Left renal vein (if seen)		
		Bowel		
	T	Liver		
	rraces Aorta	down to bifurcation		
	Measures ao	rta accurately		
		Outer wall to outer wall		
Aorta LS	Ontinainanian			
	Optimises im Identifies	age		
	identifies	Aorta and fans across it		
		Differentiates aorta from IVC		
		Differentiates dorta from 1VO		
	Describes			
		Appearance of AAA (size)		
		>3cm = aneurysm		
		Appearance of thrombus		
		Appearance of retroperitoneal haematoma		
		Usually can't tell if leaking but may see haematoma / free f	uid	
A 14 a a 41				
Alternative Vie		sains the corts through the left kidney		
	Aware or ima	ging the aorta through the left kidney		
Essential C	linical Kno	wledge		
	Acts on ultras	sound findings appropriately		
		AAA stable patient		
		AAA unstable patient		
		Normal sized aorta		
		Indeterminate findings		

		Competent	Required Instruction
Record Keeping			
Stores appr	opriate images		
Writes appr	opriate report		
Machine Maintenance)		
Can replace	asound probe e printer paper (if printer attached) hine and probes safely and correctly		
Trainee Signature			
Trainee's Name			
Tutor Signature			
Tutor's Name			

A copy of this completed formative assessment form should be kept by the trainee.





Candidate:

Summative Assessment **E-Aorta**

Examiner	<u> </u>				
Date:					
A Summative Assessment is a structured assessment process. The student is led through a complete ultrasound examination by their examiner. At least 3 Formative Assessments are required before attempting the final Summative Assessment. The candidate may be prompted through the ultrasound examination process and is asked questions but should not be instructed. Failure to complete any one element changes the Summative Assessment into a Formative Assessment and the examination is completed as a teaching exercise, not a final assessment. A further Summative Assessment is required prior to accreditation.					
		Competent	Fail		
Preparation	1				
Prepare patie	nt Position Consent / Explanation				
Prepare envir	onment Lights dimmed if possible				
Prepare mach	ine Correct position				
Turn machine on					
Probe selection	on Can change transducer Selects appropriate transducer for indication				
Preset selecti	on Select correct preset				
Data entry	Enter patient / study details				

Competent Fail

Optimisation Adjusts depth Understands frequency adjustment Adjusts focus if on machine Adjusts gain & TGC Firm constant pressure Identifies Vertebral body Aorta Iliac vessels **IVC** Coeliac Axis **SMA** Splenic vein Left renal vein (if seen) Bowel Liver Traces Aorta down to bifurcation Measures aorta accurately Outer wall to outer wall Aorta LS Optimises image Identifies Aorta and fans across it Differentiates aorta from IVC Describes Appearance of AAA (size) >3cm = aneurysm Appearance of thrombus Appearance of retroperitoneal haematoma Usually can't tell if leaking but may see haematoma / free fluid **Alternative Views** Aware of imaging the aorta through the left kidney **Essential Clinical Knowledge** Acts on ultrasound findings appropriately AAA stable patient AAA unstable patient Normal sized aorta

Indeterminate findings

Image acquisition

Aorta TS

		Competent	Fail
Record Keeping			
Stores appropri	ate images		
Writes appropri	ate report		
Machine Maintenance			
	Cleans ultrasound probe		
Can replace printer paper (if printer attached) Stores machine and probes safely and correctly			
Candidate's Signature			
Candidate's Name			
Evaminar'a Signatura			
Examiner's Signature			
Examiner's Name			

A copy of this completed summative assessment form should be kept by the trainee. If the department has a Dierctor of Emergency Ultrasound they should keep a copy of this document.

