ASSESSMENT FOR CERTIFICATION OF COMPETENCE IN FETAL MORPHOLOGICAL EXAMINATION

LABORATORY LITTER ASSESSMENT - FRESH EXTERNAL AND VISCERAL EXAMINATION



THE INTERNATIONAL REGISTER OF FETAL MORPHOLOGISTS

Name of Candidate:	Toni Carpenter
Name of Applicant (Laboratory):	Toni Carpenter, Charles River Laboratory
Examination type assessed (species):	FRESH EXTERNAL AND VISCERAL EXAMINATION Rat
Date of assessment:	13 December 2018
Names of assessors:	Lorrie Posobiec Bill Nowland
Specimens used for assessment:	[insert Study code, litter and fetus ID in each box]
1 7	3
L	Key for abbreviations:
P - Needed prompting	PP – Needed frequent prompting
N – Nervous DK – Didn't know the answer	VIP – Volunteered information previouslyNC – Not consistent in technique
Assessor's Summary:	
[delete or underline to highlight t	he appropriate description from the options below:]
Competent / competent and focus demonstrated / effectively communderstanding / of all aspects	sed / engaged and focussed during the assessment, and unicated a sound knowledge / an impressive
Assessor signatures	Lanam M. Pasolin
Date 13 Dec Z	018

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Name of	f Candidate:	Toni Car	rpenter	

COMMENTS FROM LABORATORY SPECIMEN EXAMINATION: [insert free text in boxes]

Talk through/procedure

Question	Acceptable Response	Response	
Describe to me what you are doing; what do you see; what are you looking at?	Separation Moving Dissecting/clearing Turning specimen	La l'auth exice	had destroy is
	Examination from all sides Manipulation for clarification	people Neres Popplie Neres position and opening lips are smooth no clest; mosty tounge; wishers; Jaws are norm	abdominal ening exans aphragm for defects then pens the thorner evity and examines tissue in sith; liver examined arl obes named; on to stomach pressible accessed sphen's goods Cal truct examine
What are you looking at now?		then down to Windlimbs for	to rectum,
Describe what you see		Size and those then kindpanis and digits (5) Sex determed and comes and tail examined they the down	cend vention possil dilation; above textes existing then branch then
Note how candidate is recording observations – as they are found or at the end of the examination?	external for consumotion; during	Surface examined them then	moved up left Side to heft Wester cut
Confirm that specimen is being manipulated appropriately.	found they are entered	External Visceral yes yes	lungs lobes haved heart examined than

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The great vessels were examined and their locations of erging versied and described; then sight side of heart and up into the pulmonary trank cut is made: inside of heart and values named and examined; then a cut into left ventricle is made up into the contic and, is examined up into the contic and, is examined and parentheroid: esophague and their dear examined examined; look for defects between trained; look for defects between trained and esophagus; examined

Name of Candidate:	_Toni Carpenter	
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Consistency in procedural routines

Question	Acceptable Response	Response
Can you think what the importance of consistency in magnification across examiners might be?	Consistency is important so that all examiners see and record to the same level of detail.	Save magnificant on t considering; will scop down when needed
Do you always use the same sequence and routine for examination? Why do you think that it is important?	Yes - don't miss anything, important for pattern recognition, subconscious alert.	Yes
Do you think it is necessary to look at structures from more than one aspect?	Yes - gain clear view of 3D structures, enable all structures/aspects of structures to be seen clearly.	te5
Which structures would you examine in situ before you go on to disturb the viscera?	E.g. position of heart in thorax, thymus, cranial vena cavae, diaphragm before thorax is opened, ureters before sectioning kidney, eye bulge	

Terminology and recognition levels used

Acceptable Response	Response	[
User guides and recognition levels		
Discuss with colleagues Reference material, user	meets lab standa	2
recognition levels, background data	to be recorded	
Peer review/consistency check (examiner records should be traceable)	- and training guide	
	User guides and recognition levels Discuss with colleagues Reference material, user guides, laboratory recognition levels, background data Peer review/consistency check (examiner records	User guides and recognition levels Discuss with colleagues Reference material, user guides, laboratory recognition levels, background data

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Name of	Candidate:	Toni Carpenter	
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Terminology and recognition levels used

Question	Acceptable Response	Response
Would you assign a severity level, why?	User guides and recognition levels	Some friding have set
How do you ensure other examiners are using the same severities as you for the same observation?	Discuss with colleagues Reference material, user guides, laboratory recognition levels, background data	,
	Peer review/consistency check (examiner records should be traceable)	

Recognition of artefacts

Question	Acceptable Response	Response
How would you decide if real or artefact?	Is the structure an unusual colour (haemorrhage)? Background knowledge/experience Refer to PM data (specimen dropped?)	
What procedural errors are likely to lead to artefacts?	Unsuitable mode of death (e.g. too much pentobarbitone or inappropriate site for injection) Flattening on one side of head or apparent forelimb flexure due to the way it was laid on tray/bench Digit/tail/pinna damage - cut edge, evidence of bleeding Blood vessel damage, trace the route to find each end	a artist will govern be just not smooth
Can you think of any observations which could be caused by an artefact?	Missing digits/tail/pinna, Intraabdominal/hepatic/sub cutaneous haemorrhage, umbilical hernia, forceps damage to palate	causes howaring causes howard wall dama

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Recognition of artefacts

Question	Acceptable Response	Response
Would you record artefacts?	record	yes there is a form to
How would you record an artefact?	Explain how	subsequent exams

Correct identification of anomalies

Correct identification of anom Question		Dagnongo	1
What could you do to make sure that you've chosen the most accurate term?	Discuss/review findings with colleagues; refer to recognition levels/user manuals/training/reference material/background data.	Response Making and other research	
Why have you used that term? (any observation with a recognition level, relative to the norm)	Give reason based on degree of displacement, normal variation. Based on symmetry; alignment; position in relation to other structures, normal variation		
How would you decide if you thought one pinna was displaced?	Give reason based on degree of displacement, normal variation, alignment; position in relation to other structures, normal variation; compare to normal specimen	peer review	
What anomalies might you see in the/state region?.		Fisher's esophague not connected to Stomach	
What anomalies might you see in the/ state region?			descr the
What anomalies might you see in the/state region?			

Name of Candidate:Toni Carpenter
Demonstration of knowledge of consequence of findings (choose minimum of 3 from this section)

section)		
What else might you see with:		
Absent pollex [at external observation]	Other short digits/absent claws	
Absent tail [at external observation]	Imperforate anus. Check stomach contents/presence of meconium, patency of anus	could be problems
Dilated ureter	Renal pelvic cavitation, large urinary bladder, kinked ureter	
Short lower jaw	Large/small/protruding tongue, absent incisors, size of oral cavity	comparisher fetus
Distended abdomen	Fluid in abdominal cavity, changes in size, shape, position and presence of great vessels. Malrotated heart, formation of ventricular septum. Check stomach contents/presence of meconium, patency of anus. Form of liver, abdominal wall musculature, umbilical vessels.	
Flat cranium / occipital projection	Spina bifida (open or skin covered)	
Skin lesion/haemorrhage cranium / dorsal midline	Meningocoele/spina bifida (skin covered)	
Malrotated heart	Changes in size, shape, position and presence of great vessels. Formation of ventricular septum.	
Whole body oedema	Changes in size, shape, position and presence of great vessels. Malrotated heart, formation of ventricular septum. Form of liver, abdominal wall musculature, umbilical vessels. Kidney size and form (pelvic dilation, enlargement), cleft palate.	

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Name of Candidate:	_Toni Carpenter	
Demonstration of knowledge of	f consequence of findings	(choose minimum of 3 from this

section)	e of consequence of findings (cho	ose minimum of a front tills
What else might you see with:		
What would you expect to record in association with low fetal weight	Thin, translucent, shiny fragile skin, oedema over snout, domed cranium, apparent change in size of eye bulge, non-eruption of incisors, poorly defined digits, apparently larger genital papilla, difficulty in determining external sex. Lungs not expanded, kidney – dilated pelvis/ ureters, testes high, pronounced umbilical vessels [Check day of PM if whole litter affected]	May have Stelet
What might you find in association with high fetal weight	May be oedematous, thick skin, eruption of incisors [Check day of PM if whole litter affected]	
Dilated major blood vessel (aorta, pulmonary trunk)	Narrow/absent/malpositioned major blood vessel (aorta, pulmonary trunk), ventricular septal defect, malrotated heart, abnormal lung lobation, fluid in thoracic/abdominal cavities/oedema	

Awareness of importance of communication lines as reaction to unusual findings

Question	Acceptable Response	Response
What would you do if you had never seen a finding before? What would you do if you were unsure how to describe an observation?	Describe what is seen, discuss/review findings with colleagues, refer to recognition levels/user manuals/training/reference material/background data	use Makris, peers

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Additional comments	

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ASSESSMENT FOR CERTIFICATION OF COMPETENCE IN FETAL MORPHOLOGICAL **EXAMINATION**

RAT FRESH EXTERNAL AND VISCERA IMAGES FOR CERTIFICATION



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Nam	Name of Candidate:Toni Carpenter
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know the	e answer NC - Not consistent in technique
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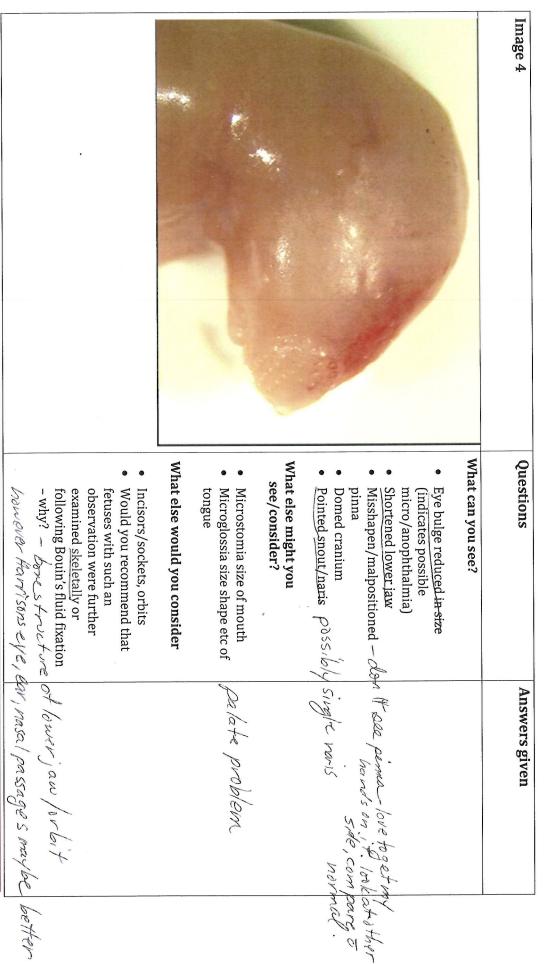
October 2017

Name of Candidate:
Toni Carpente
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Image 1	Questions What can you see?	Answers given
	What else might you see/consider?	cleft lip
	 Possible misshapen/ protruding tongue 	
	 Are there any problems with incisor sockets, lower jaw, maxillary region or eye sockets? 	sometimes absence ofincisus
	Other points	
	Are cleft palates always this - Somethings more named in the case of the	Southern more in
	 What other defects are often associated with cleft 	
	palate?Would you recommend	
	observation were further	
	examined skeletally or following <u>Bouin's fluid</u>	
	fixation - why?	

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October 2017

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	f Candidate:
	Toni
F	Carpe
-	Toni Carpenter

Image 6	Questions	Answers given
	What can you see?	
	Retro-oesophageal right subclavian artery	getro esophagen inght sided AA would like to manipulate
	What else would you consider?	
	 Are there any other defects usually 	
	associated with this observation?	
	 Ventricular septal defect 	

October 2017

Nam
e of (
f Candidate:
Ion
i Carpenter

Image 8	Questions	Answers given
>	what can you see? • Anasarca (oedema) whole body • Shortened lower jaw	short body, but would want to compare E normal
	What else might you see/consider?	1570
	 Microstomia Microglossia Eye bulge difficult to assess because of oedema, a reduction in size may indicate possible micro/anophthalmia) Heart/vessel defect(s) 	can't see tail-could be and atresia If we circulation If we doubleveloped kiddney.
	What else would you consider	indevideveloped kidney,
	 Incisors/sockets, orbits Would you recommend that fetuses with 	EV rasue
	such an observation were further examined skeletally or following Bouin's fluid fixation - why?	- would go either was no Just Faction to switch

October 2017

Name of (
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f Candidate: _
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				Image d
Other points Secondary palate cleft? Check for microstomia/small mouth Check nares Process for skeletal	Bulging? <u>Pinna malpositioned</u> /low set <u>Skin tag - en larged facial payilla</u> Short lower jaw/brachignathia	What else might you see/consider? Dark eye Haemorrhage?	What can you see? Left eyelid absent/open eye	Questions
whole front of face short possibly look at torgue	ry ille	and it.		Answers given

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ASSESSMENT FOR CERTIFICATION OF COMPETENCE IN FETAL MORPHOLOGICAL **EXAMINATION**

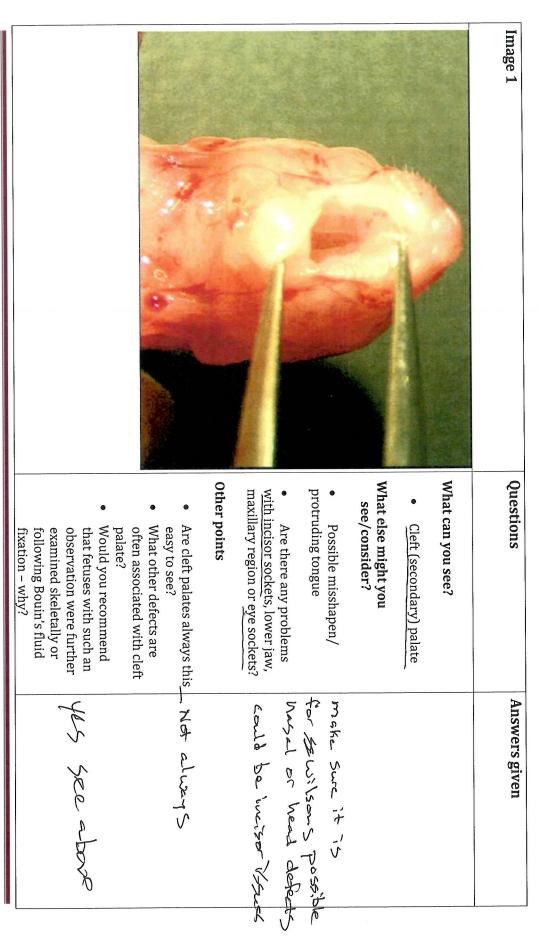
RAT FRESH EXTERNAL AND VISCERA IMAGES FOR CERTIFICATION



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Name of Candidate:	
Toni Carpenter	

					Image 4
 Incisors/sockets, orbits Would you recommend that fetuses with such an observation were further examined skeletally or following Bouin's fluid fixation – why? 	What else would you consider	Microstomia size of mouthMicroglossia size shape etc of tongue	What else might you see/consider?	• Eye bulge reduced in size (indicates possible micro/anophthalmia) • Shortened lower jaw • Misshapen/malpositioned pinna • Domed cranium • Pointed snout/naris	Questions
Side and a normal fetury Skeleter may be better team of Jaw and eye		Political Color		misshapen or absent	Answers given

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Name of Ca
Candidate:
Toni Carp
rpenter

Questions	Answers given
What can you see?	
Retro-oesophageal cright subclavian artery	Retro-oesophageal dortic arch possible right subclavian
What also would you	need to examine
consider?	Choses
 Are there any other defects usually 	
associated with this observation?	
 Ventricular septal defect 	
	What can you see? • Retro-oesophageal right subclavian artery What else would you consider? • Are there any other defects usually associated with this observation? • Ventricular septal defect

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	Name of Candid.
,	ate: Toni Carpenter

					>		Image 8
 Incisors/sockets, orbits Would you recommend that fetuses with such an observation were further examined skeletally or following Bouin's fluid fixation – why? 	What else would you consider	 Eye bulge difficult to assess because of oedema, a reduction in size may indicate possible micro/anophthalmia) Heart/vessel defect(s) 	Microstomia Microglossia	What else might you see/consider?	Anasarca (oedema)Shortened lower jaw	What can you see?	Questions
great vessel issues Probably skeletors; most	Kidney OK?	is tail present!	Short;	maybe whole fetrs is	ushole body edema		Answers given

October 2017

Name of Candidate: _____Toni Carpenter___

			Image d
Other points Secondary palate cleft? Check for microstomia/small mouth Check nares Process for skeletal	What else might you see/consider? Dark eye Haemorrhage? Large? Bulging? Pinna malpositioned/low set Skin tag مه جمدته کیه کاری	What can you see? Left eyelid absent/open eye	Questions
tongre produkty!	Triv -		Answers given

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