

THE INTERNATIONAL REGISTER OF FETAL MORPHOLOGISTS

Name of Applicant (Laboratory):	Jenna Smallwood, Charles River Laboratory, Horsham, PA
Examination type assessed (species):	SKELETAL RABBIT
Date of assessment:	22Aug2024
Specimens used for assess	ment: [insert fetus ID in each box]
3 6	13
Key for abbreviations:	
P - Needed prompting	PP - Needed frequent prompting
N - Nervous	VIP - Volunteered information previously
DK - Didn't know the answ	ver NC – Not consistent in technique
Assessor signature	122
Date 22 Aug 2024	

Image 3	Questions (annotate responses)	Comments
	 What might you want to say about this? / Describe what you see Right ribs fused, proximal (discuss whether branched or fused right ribs [look at width of rib proximal region] what observations helped you to reach your conclusion?) Right side vertebral centrum probably absent (i.e. hemicentrum); unlikely to be unossified as there is not space - how would you differentiate between absent/unilaterally ossified right thoracic hemicentrum (look at cartilage and intervertebral discs) Right vertebral arches fused; probably just 2 fused but could be a third involved. Left ribs damaged What else might you be thinking about Not strictly a hemivertebra (Both arches present albeit reduced in size on right) What terms might you use to describe the shape/positioning of the upper and lower vertebral centra in the image? Are the centra incompletely ossified or misshapen/asymmetric Could be left-sided fusion above hemicentrum Some of the vertebrae could be misaligned 	Possible Nemi vertebra Would possibly be orch, but hard to Fusion - 2 ribs together vs 1 rib spli into 2 - location, size, aren vs a arches I aren branched

 How would you make sure you were recording the correct finding/position? Count ribs and associated vertebral arches/costal cartilage Would looking at dorsal and ventral views aid interpretation? 	,
 What else might be associated with this? Scoliosis? What are the consequences for the vertebrae, ribs and costal cartilage/sternebrae? How could you clarify the vertebral centra observations (intervertebral discs; vertebral arches) - mention double staining? 	
Would you expect this observation to be visible externally?	

Image 6	Questions (annotate responses)	Comments
	What might you want to say about this? Name bones affected (partially fused/fused frontals)	Nasals, misshapen, small
5 34	 What else might you expect to see with this? Are there other fusion's i.e. nasals/premaxillae? Are the orbital sockets displaced? Is the anterior fontanelle affected? (Is the anterior fontanelle likely to be that shape in reality?) 	
	 What might you expect to see at external examination? Domed cranium? Frontal ridge/bump seen in profile view? Any change in distance between orbital sockets? Need rest of skull to do proper assessment 	short shout
	[What consequences might there	

be to brain formation]	
	ω.

What might you want to say about this? • Misaligned and fused 2nd to 5th sternebral hemicentres (or sternebrae 2-5 offset/offset ossification and fused)? How would you describe the observations for each sternebrae (asymmetric ossification; bridge of ossification/fusion; offset ossification centres; bifurcated sternebra) Why have you chosen those terms • Are all the sternebrae present, how can you tell? • Bifurcated 6th sternebrae (missinger) • Would you consider there being a small	
Would you consider there being a small additional ossified centre present? Would you make any comment on cartilage? Misaligned 2nd to 5th costal cartilage (or costal cartilages 3, 4, ?5 asymmetrically aligned) Is the xiphoid cartilage split? Difficult to see if there is a 1st [left] costal cartilage present What else might be associated with this or similar abnormalities? Dorsoventral distortion of sternum Fused costal cartilage's and possibly ribs	riage I, maybe



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Nov 2011

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Would you expect this observation to be visible externally?	

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9 84	 What else might you expect to see with this? Are there other fusion's i.e. nasals/premaxillae? Are the orbital sockets displaced? Is the anterior fontanelle affected? (Is the anterior fontanelle likely to be that shape in reality?) What might you expect to see at external examination? Domed cranium? Frontal ridge/bump seen in profile view? Any change in distance between orbital sockets? Need rest of skull to do proper assessment [What consequences might there 	premialla maybe small premial the affected would the to see it from the side

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