

Cavalier King Charles Spaniel MRI evaluation report

Pedigree name: **Anuka's Angel Annabella**

Registration number: **DK16420/2015**
 Microchip number: **208210000549737**
 Date of the MRI scan: **7-9-2020**
 Age at scanning: **5,02 years**

Gender: **Female**
 Colour: **Ruby**
 Date of birth: **1-9-2015**

According to the submission form there were no neurological signs.

Age category:

a

Based on the MRI scan send in the following grading is applicable:

Dutch Kennelclub / CCN / BVA / Kennelclub grading: CM Grade 2a / SM Grade 0a

Explanation:

CM grade 0	No herniation cerebellum	SM grade 0	No dilatation of the central canal or syrinx visible
CM grade 1	Herniation of the cerebellum but with minimal blockage of the CSF flow	SM grade 1	Dilatation of the central canal up to 2 mm
CM grade 2	Herniation of the cerebellum and with complete blockage of the CSF flow	SM grade 2	Dilatation of the central canal of 2 mm or more, or a syrinx is visible.

Additional information on the ventricular system get grade 0. The middle ear on the left side showed 2 and the middle ear on the right side 0.

Concerning (microchip) artefacts the grading is 0. Any grading above 1 means that the quality of the scan is of such a quality that the final result could not be estimated and that the current grading could be an underestimate of the real situation.

Explanation:

Ventricular system	Artefacts?	Middle ear
0 = no abnormalities	0 = none	0 = not visible
1 = dilatation of the 4th ventricle	1 = not severe	1 = only a limited amount of material is visible
2 = mild dilatation	2 = too severe to evaluate	2 = there is material visible
3 = severe dilatation of the ventricles		3 = the bullae are completely filled with material

Signed by



Dr. Paul Mandigers

DVM, PhD, Diplomate ECVN
 Diplomate RNVA Internal Medicine
 European Specialist Veterinary Neurology EBVS

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Extra information concerning the MRI scan. This information is additional information and could be of use for breeding selection.

*Utrecht grading of the herniation is grade **3** and the shape of the cerebellum get grade **0***

Chiari malformation grading	Shape
0 = grade 0	0 = not abnormal
1 = grade 1 as the UK system	1 = the cerebellum is clover leaf shaped
2 = grade 2 as the UK system	2 = the cerebellum is flattened at the front side
3 = grade 2 and added to this the herniation and indentation is clearly visible	3 = the cerebellum is flattened at the hind side
4 = grade 2 and added to this the herniation and indentation is severe	4 = Subtentorial herniation is seen
	5 = Abnormal shape not listed above

Utrecht information concerning the spinal cord:

The visibility of the central canal on the sagittal T2 weighted and transverse T1 weighted images gets grade **0**, whereas the sagittal T1 weighted images gets grade **0**. The shape of the dilatation or syrinx gets grade **0**. We could see the central canal according to grade **0**. The maximum internal diameter of the dilatation measures **0** mm. The Belgium classification is **Categorie 1**

Visibility sagittal T2 & transversal T1	Visibility sagittal T1	Shape of the central canal or the syrinx	Visible from ... To	Diameter in millimetres
0 = not visible	0 = not visible on T1	0 = not or circular	0 = not visible	
1 = visible sagittal T2	1 = visible on the T1 sagittal	1 = presyrinx	1 = sagittal T1 from to	
2 = visible S-T2 en TV T1		2 = CC open to dorsal	2 = sagittal T2 from to	
3 = visible 1-2 mm TV T1		3 = CK asymmetrical to aside		
4 = visible 2-3 mm TV T1		4 = separate syrinx		
5 = visible 3-4 mm TV T1				
6 = visible > 4 mm TV T1				

Perviously used UK classification: **A**

Concerning (microchip) artefacts the grading is **0**.

Signed by

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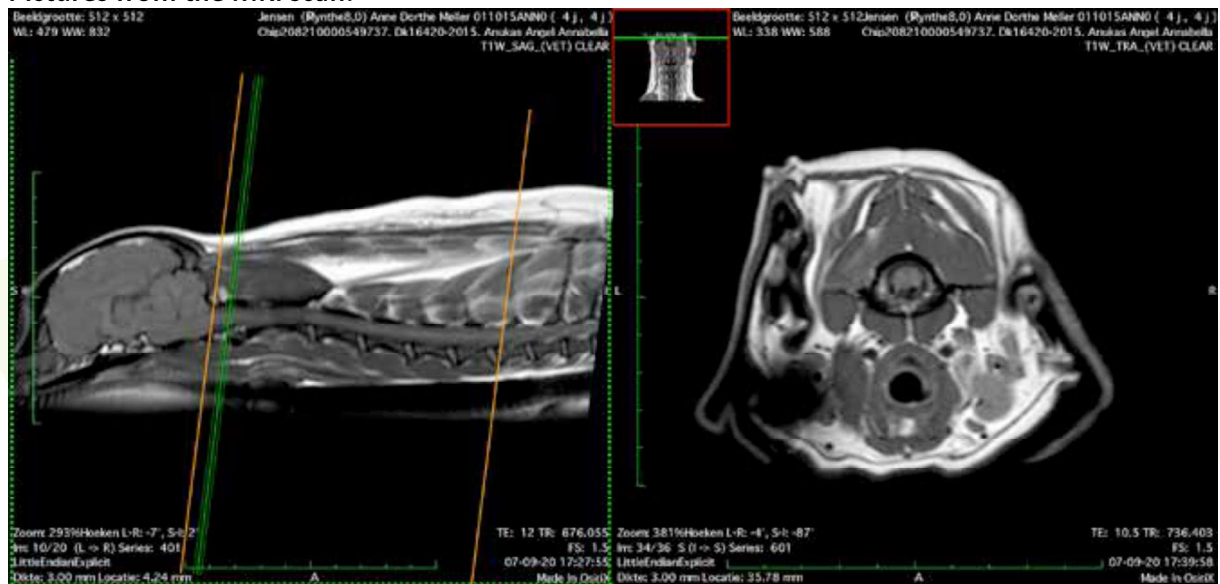
Cavalier King Charles Spaniel Extra information about the MRI scan

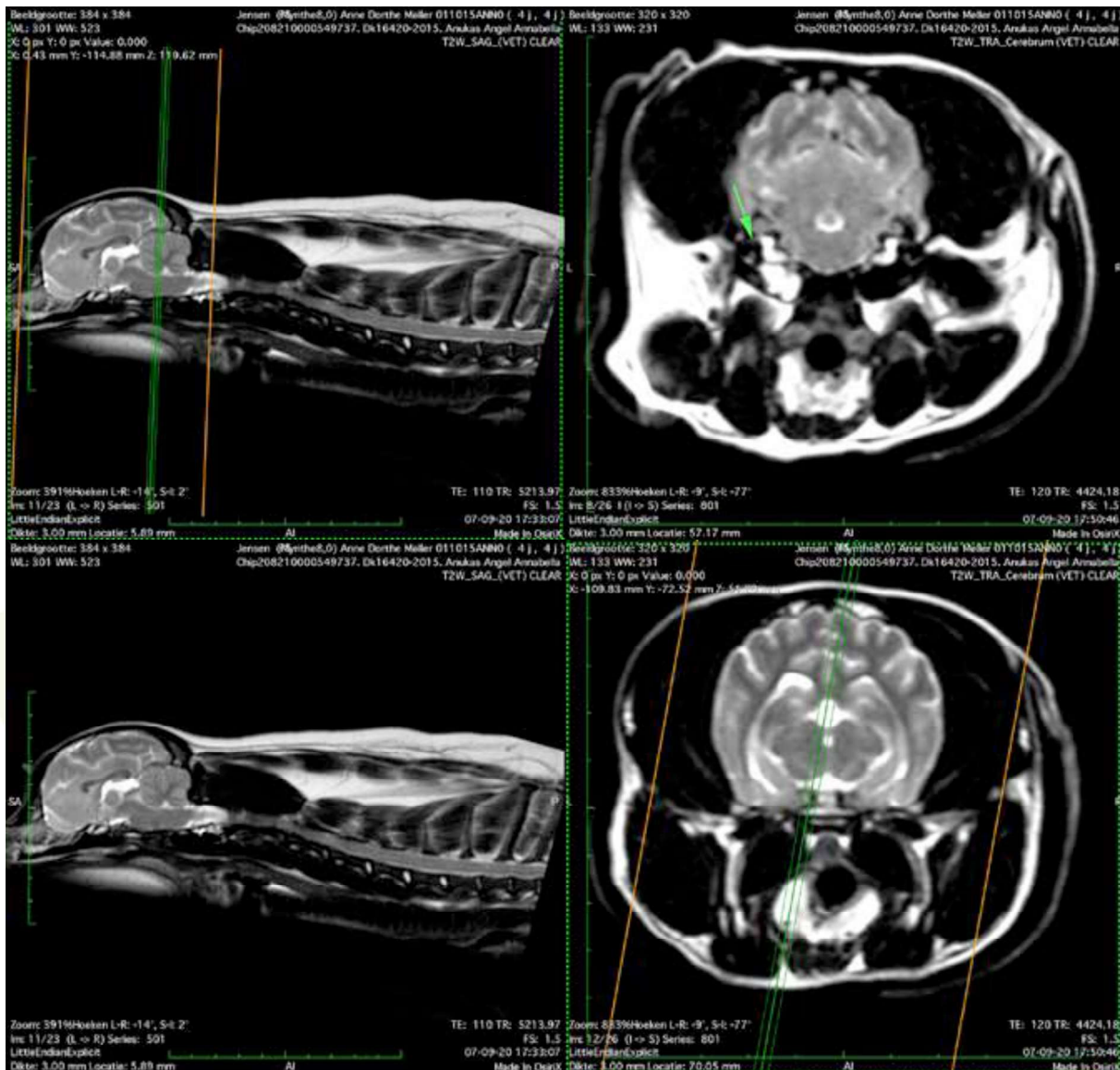
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Pictures from the MRI scan:





For any questions or other queries you are kindly asked to use this reference number: MSEP2020-13.
The MRI scan has been produced by mr / dr / clinic MR-Scanner.dk.