

## Supplementary File 2

MRI features from horses undergoing standing magnetic resonance imaging of the metacarpophalangeal/metatarsophalangeal region with number (N) and proportion (%) of forelimbs and hindlimbs affected. Features with significant differences in proportions between forelimbs and hindlimbs (Pearson's Chi-squared test) are shown, with the overrepresented category in bold, using a significance level of  $p < 0.05$ . FL=forelimbs; HL=hindlimbs; MCP j=metacarpophalangeal joint; MTP j=metatarsophalangeal joint; MC 3=third metacarpal bone; MT 3=third metatarsal bone; P1=proximal phalanx; PSB=proximal sesamoid bone; POD=palmar/plantar osteochondral disease; DFTS=digital flexor tendon sheath; Med SB=medial suspensory branch; Lat SB=lateral suspensory branch; MCL=medial collateral ligament of the metacarpophalangeal/metatarsophalangeal joint; LCL=lateral collateral ligament of the metacarpophalangeal/metatarsophalangeal joint; SDSL=straight distal sesamoidean ligament; MODSL=medial oblique distal sesamoidean ligament; LODSL=lateral oblique distal sesamoidean ligament; DDFT=deep digital flexor tendon; SDFT=superficial digital flexor tendon.

**Table 2a:** Distribution and pathology type of **bone lesions** affecting the **forelimb and hindlimbs** of the metacarpophalangeal/metatarsophalangeal region with number (N) and proportion (%) of forelimbs and hindlimbs affected.

**Table 2b:** Distribution and pathology type of **metacarpophalangeal/metatarsophalangeal joint** and **digital flexor tendon sheath** lesions in forelimbs and hindlimbs.

**Table 2c:** Distribution and pathology type affecting the **soft tissues** of the metacarpophalangeal/metatarsophalangeal region with number (N) and proportion (%) of forelimbs and hindlimbs affected.

Table 2a Anatomical location Bone			MRI features	Number (N=259) and Proportion (%) of FL affected	Number (N=82) and Proportion (%) of HL affected	P value
MC/T 3	Cortex	Location	Dorsal	51 (19.7)	11 (13.4)	
			Palmar/Plantar	38 (14.7)	13 (15.9)	
			Axial (sagittal ridge)	30 (11.6)	7 (8.5)	
			Medial	<b>51 (19.7)</b>	7 (8.5)	<b>0.019</b>
			Lateral	29 (11.2)	10 (12.2)	
		Aspect	Periosteal	49 (18.9)	9 (9.8)	
			Endosteal	61 (23.6)	13 (15.9)	
			All	49 (18.9)	10 (12.2)	
		Pathology type	Irregularity	24 (9.3)	6 (7.3)	
			Sclerosis	45 (17.4)	10 (12.2)	
			Fluid (hyperintensity)	42 (16.2)	8 (9.8)	
	Trabecular bone	Location	Dorsal	128 (49.5)	31 (37.8)	
			Palmar/Plantar	108 (41.7)	32 (39)	
			Axial (sagittal ridge)	<b>68 (26.3)</b>	12 (14.6)	<b>0.03</b>

			Medial	151 (58.3)	30 (36.6)	0.001
			Lateral	87 (33.6)	27 (32.9)	
		Pathology type	Irregularity	34 (13.1)	12 (14.6)	
			Sclerosis	140 (54.1)	36 (43.9)	
			Fluid (hyperintensity)	134 (51.7)	34 (41.5)	
			Fracture incomplete	10 (3.9)	3 (3.7)	

			Hypervascularization	<b>97 (37.5)</b>	17 (20.7)	<b>0.005</b>
<b>P1</b>	<b>Cortex</b>	Location	Dorsal	65 (25.1)	27 (32.9)	
			Palmar/Plantar	8 (3.1)	6 (7.3)	
			Axial (sagittal groove)	41 (15.8)	18 (22)	
			Medial	30 (11.6)	<b>18 (22)</b>	<b>0.019</b>
			Lateral	13 (5)	7 (8.5)	
		Aspect	Periosteal	45 (17.4)	18 (22)	
			Endosteal	71 (27.4)	<b>33 (40.2)</b>	<b>0.028</b>
			All	42 (16.2)	18 (22)	
		Pathology type	Irregularity	56 (21.6)	<b>29 (35.4)</b>	<b>0.012</b>
			Sclerosis	28 (10.8)	15 (18.3)	
			Fluid (hyperintensity)	39 (15.1)	18 (22)	
	<b>Trabecular bone</b>	Location	Dorsal	60 (23.2)	24 (29.3)	
			Palmar/Plantar	11 (4.2)	7 (8.5)	
			Axial (sagittal groove)	32 (12.4)	12 (14.6)	
			Medial	39 (15.1)	15 (18.3)	
			Lateral	15 (5.8)	9 (11)	
		Pathology type	Irregularity	29 (11.2)	16 (19.5)	
			Sclerosis	32 (12.4)	15 (18.3)	
			Fluid (hyperintensity)	59 (22.8)	20 (24.4)	
<b>PSB</b>	<b>Medial</b>	Location	Axial	<b>50 (19.3)</b>	6 (7.3)	<b>0.011</b>
			Abaxial	<b>82 (31.7)</b>	16 (19.5)	<b>0.034</b>
			Proximal	<b>56 (21.6)</b>	7 (8.5)	<b>0.008</b>
			Distal	47 (18.2)	9 (11)	
			Diffuse	<b>50 (19.3)</b>	5 (6.1)	<b>0.005</b>
		Pathology type	Irregularity	45 (17.4)	16 (19.5)	
			Sclerosis	<b>36 (13.9)</b>	2 (2.4)	<b>0.004</b>
			Fluid (hyperintensity)	54 (20.9)	14 (17.1)	
	<b>Lateral</b>	Location	Axial	40 (15.4)	8 (9.8)	
			Abaxial	59 (22.8)	18 (22)	
			Proximal	38 (15.1)	10 (12.2)	
			Distal	35 (13.5)	9 (11)	
			Diffuse	38 (14.7)	7 (8.5)	
		Pathology type	Irregularity	28 (10.8)	14 (17.1)	
			Sclerosis	18 (7)	10 (12.2)	
			Fluid (hyperintensity)	47 (18.2)	20 (24.4)	

Table 2b Anatomical location Joint		MRI features	Number (N=259) and Proportion (%) of FL affected	Number (N=82) and Proportion (%) of HL affected	P value
<b>MC/ MTP</b>	<b>Location</b>	Dorsal P1	193 (74.5)	59 (72)	
		Dorsal MC/T 3	190 (73.4)	59 (72)	
		Palmar/Plantar P1	42 (16.2)	18 (22)	

	Palmar/Plantar MC/T 3	124 (47.9)	36 (43.9)	
	Proximal P1	202 (78)	60 (73.2)	
	Distal MC/T 3	226 (87.3)	71 (86.6)	

		Medial P1	<b>122 (47.1)</b>	24 (29.3)	<b>0.004</b>
		Medial MC/T 3	<b>182 (70.3)</b>	38 (46.3)	<b>&lt;0.001</b>
		Lateral P1	55 (21.2)	17 (20.7)	
		Lateral MC/T3	99 (38.2)	29 (35.4)	
		Axial P1 (sagittal groove)	109 (42.1)	44 (53.7)	
		Medial parasagittal groove	54 (20.9)	16 (19.5)	
		Lateral parasagittal groove	50 (19.3)	19 (23.2)	
		Axial MC/T 3 (sagittal ridge)	133 (51.4)	48 (58.5)	
	<b>Pathology type</b>	Subchondral bone defect	45 (28)	<b>17.4 (34.2)</b>	<b>&lt;0.001</b>
		Sclerosis	196 (75.7)	62 (75.6)	
		Fluid (hyperintensity)	204 (78.8)	67 (81.8)	
		Cartilage irregularity/fibrillation	21 (8.1)	5 (6.1)	
		Fissure	52 (20.1)	14 (17.1)	
		Osteophyte	158 (61)	45 (54.9)	
		POD	11 (4.3)	5 (6.1)	
		Distension	176 (68)	<b>69 (84.2)</b>	<b>0.004</b>
		Chronic synovitis	158 (61)	<b>61 (74.4)</b>	<b>0.028</b>
		Capsulitis	53 (20.5)	22 (26.8)	
<b>DFTS</b>	<b>Pathology type</b>	Distension	14 (5.4)	<b>12 (14.6)</b>	<b>0.006</b>
		Chronic synovitis	10 (3.9)	<b>10 (12.2)</b>	<b>0.011</b>

<b>Table 2c Anatomical location Soft tissue</b>		<b>MRI features</b>	<b>Number (N=259) and Proportion (%) of FL affected</b>	<b>Number (N=82) and Proportion (%) of HL affected</b>	<b>P value</b>
<b>Med SB</b>	Location	Insertion	44 (17)	18 (22)	
		Body	101 (39)	35 (42.7)	
	Part of the branch affected	Margin/periphery	82 (31.7)	31 (37.8)	
		Central/core	64 (24.7)	27 (32.9)	
		Entire branch	14 (5.4)	9 (11)	
	Area of the margin affected	Dorsal	18 (7)	6 (7.3)	
		Palmar/plantar	32 (12.4)	10 (12.2)	
		Axial	81 (31.3)	27 (32.9)	
		Abaxial	17 (6.6)	<b>12 (14.6)</b>	<b>0.022</b>
	Pathology type	Defect	52 (20.1)	15 (18.3)	
		Fluid-based hyperintensity	89 (34.4)	30 (36.6)	
		Enlargement	48 (18.5)	<b>25 (30.5)</b>	<b>0.021</b>
<b>Lat SB</b>	Location	Insertion	33 (12.7)	17 (20.7)	
		Body	69 (26.6)	22 (26.8)	
	Part of the branch affected	Margin/periphery	52 (20.1)	21 (25.6)	
		Central/core	51 (19.7)	19 (23.2)	
		Entire branch	20 (7.7)	11 (13.4)	
	Area of the	Dorsal	18 (7)	10 (12.2)	

	margin affected	Palmar/plantar	27 (10.4)	12 (14.6)	
		Axial	53 (20.5)	21 (25.6)	
		Abaxial	19 (7.3)	<b>12 (14.6)</b>	<b>0.045</b>
	Pathology type	Defect	31 (12)	11 (13.4)	
		Fluid-based hyperintensity	69 (26.6)	23 (28.1)	
		Enlargement	30 (11.6)	<b>18 (22)</b>	<b>0.006</b>
<b>MCL</b>	Location	Dorsal	5 (1.9)	3 (3.7)	
		Palmar/plantar	4 (1.5)	3 (3.7)	
		Axial	5 (1.9)	3 (3.7)	
		Abaxial	5 (1.9)	3 (3.7)	
		Entire ligament	4 (1.5)	4 (4.9)	
		Superficial (long)	4 (1.5)	4 (4.9)	
		Deep (short)	5 (1.9)	4 (4.9)	
		Origin	3 (1.2)	4 (4.9)	
		Body	3 (1.2)	4 (4.9)	
		Insertion	2 (0.8)	<b>4 (4.9)</b>	<b>0.047</b>
		Entire ligament	1 (0.4)	1 (1.2)	
	Pathology type	Fluid-based hyperintensity	4 (1.5)	4 (4.9)	
		Enlargement	3 (1.2)	1 (1.2)	
<b>LCL</b>	Location	Dorsal	14 (5.4)	<b>12 (14.6)</b>	<b>0.006</b>
		Palmar/plantar	11 (4.3)	<b>12 (14.6)</b>	<b>0.001</b>
		Axial	16 (6.2)	<b>14 (17.1)</b>	<b>0.002</b>
		Abaxial	10 (3.9)	<b>12 (14.6)</b>	<b>&lt;0.001</b>
		Entire ligament	10 (3.9)	<b>10 (12.2)</b>	<b>0.011</b>
	Level	Superficial (long)	14 (5.4)	<b>13 (15.9)</b>	<b>0.002</b>
		Deep (short)	15 (5.8)	<b>14 (17.1)</b>	<b>0.001</b>
		Origin	13 (5.2)	9 (11)	
		Body	12 (4.6)	6 (9.8)	
		Insertion	8 (3.1)	6 (7.3)	
		Entire ligament	6 (2.3)	4 (4.9)	
	Pathology type	Fluid-based hyperintensity	15 (5.8)	<b>13 (15.9)</b>	<b>0.004</b>
		Enlargement	13 (5.2)	<b>12 (14.6)</b>	<b>0.004</b>
<b>SDSL</b>	Location	Dorsal	5 (1.9)	4 (4.9)	
		Palmar/plantar	4 (1.5)	4 (4.9)	
		Medial	6 (2.3)	5 (6.1)	
		Lateral	5 (1.9)	2 (2.4)	
		Entire ligament	2 (0.8)	<b>4 (4.9)</b>	<b>0.047</b>
	Level	Bone ligament interface	3 (1.2)	2 (2.4)	
		Body	8 (3.1)	5 (6.1)	
	Pathology type	Irregularity	5 (1.9)	3 (3.7)	
		Enlargement	4 (1.5)	1 (1.2)	
		Fluid-based hyperintensity	4 (1.5)	3 (3.7)	

		Adhesions	3 (1.2)	2 (2.4)	
<b>Med ODSL</b>	Location	Dorsal	16 (6.2)	10 (12.2)	
		Palmar/plantar	19 (7.3)	10 (12.2)	
		Axial	33 (12.7)	16 (19.5)	
		Abaxial	16 (6.2)	9 (11)	
		Entire ligament	17 (6.6)	8 (9.8)	
	Level	Bone ligament interface	4 (1.5)	3 (3.7)	
		Body	42 (16.2)	14 (17.1)	
	Pathology type	Irregularity	21 (8.1)	12 (14.6)	
		Enlargement	20 (7.7)	7 (8.5)	
		Fluid-based hyperintensity	37 (14.3)	13 (15.9)	
		Adhesions	2 (0.8)	2 (2.4)	
<b>Lat ODSL</b>	Location	Dorsal	17 (6.6)	10 (12.2)	
		Palmar/plantar	17 (6.6)	<b>11 (13.4)</b>	<b>0.049</b>
		Axial	25 (9.7)	<b>15 (18.3)</b>	<b>0.034</b>
		Abaxial	17 (6.6)	8 (9.8)	
		Entire ligament	14 (5.4)	9 (11)	
	Level	Bone ligament interface	3 (1.2)	1 (1.2)	
		Body	30 (11.6)	11 (13.4)	
	Pathology type	Irregularity	15 (5.8)	9 (11)	
		Enlargement	22 (8.5)	8 (9.8)	
		Fluid-based hyperintensity	25 (9.7)	12 (14.6)	
		Adhesions	2 (0.8)	1 (1.2)	
	<b>DDFT</b>	Dorsal	3 (1.2)	1 (1.2)	
		Palmar/plantar	1 (0.4)	1 (1.2)	
		Medial	1 (0.4)	1 (1.2)	
		Lateral	4 (1.5)		
<b>SDFT</b>	Location	Proximal to the PSB	4 (1.5)		
		At the level of the PSB	2 (0.8)	1 (1.2)	
		Distal to the PSB	2 (0.8)		
		Body	2 (0.8)		
	Pathology type	Irregularity	4 (1.5)		
		Enlargement	1 (0.4)		
		Fluid-based hyperintensity	2 (0.8)		
		Adhesions	3 (1.2)	1 (1.2)	
		Chronic fibrosis	3 (1.2)		
	Location	Dorsal	5 (1.9)	3 (3.7)	
		Palmar/plantar	2 (0.8)	1 (1.2)	
		Medial	6 (2.3)	3 (3.7)	
		Lateral	3 (1.2)		
	Level	Proximal to the	3 (1.2)	2 (2.4)	

		PSB			
		At the level of the PSB	8 (3.1)	4 (4.9)	
		Distal to the PSB	2 (0.8)	<b>5 (6.1)</b>	<b>0.012</b>
		Body	4 (1.5)	1 (1.2)	
	Pathology type	Irregularity	9 (3.5)	5 (6.1)	
		Enlargement	3 (1.2)	1 (1.2)	
		Fluid-based hyperintensity	8 (3.1)	4 (4.9)	
		Adhesions	3 (1.2)	4 (4.9)	
		Chronic fibrosis		2 (2.4)	