

TABLE e-1

DIFFUSE CORTICAL MALFORMATION VERSUS NORMAL MRI

Performance of the different CNN architectures in the validation set.

CNNMCD			
AUC: 0.91 F1-score: 0.84		Accuracy: 0.84	
		Real classification	
		Normal MRI	Diffuse CM
Predicted classification	Normal MRI	129	20
	Diffuse CM	30	127
InceptionV3			
AUC: 0.91 F1-score: 0.82		Accuracy: 0.82	
		Real classification	
		Normal MRI	Diffuse CM
Predicted classification	Normal MRI	136	32
	Diffuse CM	23	115
ResNet50			
AUC: 0.74 F1-score: 0.60		Accuracy: 0.63	
		Real classification	
		Normal MRI	Diffuse CM
Predicted classification	Normal MRI	138	93
	Diffuse CM	21	54
InceptionResNetV2			
AUC: 0.92 F1-score: 0.85		Accuracy: 0.85	
		Real classification	
		Normal MRI	Diffuse CM
Predicted classification	Normal MRI	145	33
	Diffuse CM	14	114

PERIVENTRICULAR NODULAR HETEROTOPIA VERSUS NORMAL MRI

Performance of the different CNN architectures in the validation set.

CNNMCD			
AUC: 0.61		Accuracy: 0.62	
F1-score: 0.57		Real classification	
		Normal MRI	PVNH
Predicted classification	Normal MRI	45	14
	PVNH	114	161
InceptionV3			
AUC: 0.81		Accuracy: 0.73	
F1-score: 0.73		Real classification	
		Normal MRI	PVNH
Predicted classification	Normal MRI	121	52
	PVNH	38	123
ResNet50			
AUC: 0.66		Accuracy: 0.76	
F1-score: 0.66		Real classification	
		Normal MRI	PVNH
Predicted classification	Normal MRI	115	70
	PVNH	44	105
InceptionResNetV2			
AUC: 0.84		Accuracy: 0.76	
F1-score: 0.75		Real classification	
		Normal MRI	PVNH
Predicted classification	Normal MRI	117	40
	PVNH	42	135

DIFFUSE CORTICAL MALFORMATION VERSUS PERIVENTRICULAR NODULAR HETEROTOPIA VERSUS NORMAL MRI

Performance of the different CNN architectures in the validation set.

CNNMCD				
AUC: 0.70 Accuracy: 0.47		Real classification		
F1-score: 0.44		Normal MRI	Diffuse CM	PVNH
Predicted classification	Normal MRI	88	16	110
	Diffuse CM	33	109	35
	PVNH	38	22	30
InceptionV3				
AUC: 0.80 Accuracy: 0.56		Real classification		
F1-score: 0.53		Normal MRI	Diffuse CM	PVNH
Predicted classification	Normal MRI	117	32	70
	Diffuse CM	24	107	62
	PVNH	18	8	43
ResNet50				
AUC: 0.72 Accuracy: 0.47		Real classification		
F1-score: 0.45		Normal MRI	Diffuse CM	PVNH
Predicted classification	Normal MRI	128	84	134
	Diffuse CM	20	58	1
	PVNH	11	5	40
InceptionResNetV2				
AUC: 0.87 Accuracy: 0.72		Real classification		
F1-score: 0.72		Normal MRI	Diffuse CM	PVNH
Predicted classification	Normal MRI	116	40	27
	Diffuse CM	11	101	18
	PVNH	32	6	130

Legend: **AUC:** Area under the receiver operator characteristic curve. **CM:** Cortical malformation. **CNN:** Convolutional neural network. **MRI:** Magnetic resonance imaging. **PVNH:** Periventricular nodular heterotopia.