

## Appendix A

### Validated Cases of Label Incongruity

This table documents representative examples of label incongruity identified in the Chakrabarty, Br35H, and Bhuvaji datasets. Each case was validated through reverse image search, confirming a mismatch between the original dataset label and the verified ground truth. In the Bhuvaji dataset, file names ending with '\_T' indicate samples from the test set.

<b>Dataset</b>	<b>File Name</b>	<b>Dataset Label</b>	<b>Verified Ground Truth</b>	<b>Source / Context</b>
Chakrabarty	15 no.jpg	No	Multiple Sclerosis Lesions	PMID: 23325588, Figure 5
Chakrabarty	24 no.jpg	No	Multiple Hyperintense Lesions from Carotid Occlusion	Radiopaedia Case 12154
Chakrabarty	30 no.jpg	No	Multiple Sclerosis Lesions	PMID: 20609303, Figure 7
Chakrabarty	32 no.jpg	No	CNS Lymphoma and Demyelination	Radiopaedia Case 25592
Chakrabarty	42 no.jpg	No	Multiple Sclerosis Lesions	Radiopaedia Case 5189
Chakrabarty	N1.JPG	No	CT Scan, Tuberous Sclerosis	Radiopaedia Case 10400
Chakrabarty	N11.jpg	No	Neuroglial Cyst	Radiopaedia Case 5130
Chakrabarty	N15.jpg	No	Small Enhancing Tumor	Corvallis Radiology PC, "Magnetic Resonance Imaging (MRI)"
Chakrabarty	N16.jpg	No	Metastatic GIST (Spindle Cell Tumor)	PMID: 22110419, Figure 1
Chakrabarty	35 no.jpg	No	Neuro-Behcet's disease	Radiopaedia Case 21557
Chakrabarty	36 no.jpg	No	Primary CNS Lymphoma	Radiopaedia Case 31465
Chakrabarty	44no.jpg	No	CADASIL	Radiopaedia Case 22131
Chakrabarty	Y248.JPG	Yes	CT Scan, Hepatocellular Carcinoma (Abdominal, Non-Brain)	Radiopaedia Case 35108

Br35H	no280.jpg	No	Primary CNS lymphoma	Radiopaedia Case 31465
Br35H	no359.jpg	No	CT Scan, Neurocysticercosis	Radiopaedia Case 4775
Br35H	no357.jpg	No	CADASIL	Radiopaedia Case 22131
Br35H	no360.jpg	No	CT Scan, Colloid Cyst	Radiopaedia Case 10631
Br35H	no361.jpg	No	Chronic hypertensive encephalopathy	Radiopaedia Case 25764
Br35H	no362.jpg	No	CT Scan, Traumatic Subarachnoid Hemorrhage & Contusion	PMID: 35607600, Figure 4 Radiopaedia Case 4852
Br35H	no363.jpg	No	Cerebral Toxoplasmosis	Radiopaedia Case 5472
Br35H	no365.jpg	No	Cerebral Amyloid Angiopathy	Radiopaedia Case 15826
Br35H	no368.jpg	No	Tension Pneumocephalus	Radiopaedia Case 30207
Br35H	no372.jpg	No	Systemic Lupus Erythematosus - CNS Vasculitis	Radiopaedia Case 30792
Br35H	no375.jpg	No	CT Scan, Subarachnoid hemorrhage	Radiopaedia Cases 22770, 34157
Br35H	no378.jpg	No	Colloid Cyst	Radiopaedia Case 12839
Br35H	no382.jpg	No	Neuroglial Cyst	Radiopaedia Case 5130
Br35H	no384.jpg	No	Metastatic GIST (Spindle Cell Tumor)	PMID: 22110419, Figure 1
Br35H	no426.jpg	No	CT Scan, Corpus Striatal Infarct	Radiopaedia Case 21398
Br35H	no484.jpg	No	Adrenoleukodystrophy	Radiopaedia Case 16629
Br35H	no511.jpg	No	CNS Lymphoma and Demyelination	Radiopaedia Case 25592
Br35H	no537.jpg	No	Posterior Reversible Encephalopathy Syndrome (PRES)	Radiopaedia Case 2653
Br35H	y1485.jpg	Yes	CT Scan, Hepatocellular	Radiopaedia Case 35108

			Carcinoma (Abdominal, Non- Brain)	
Bhuvaji	image (4).jpg	No Tumor	Quadrigeminal Plate Cistern Lipoma	Radiopaedia Case 3543
Bhuvaji	image (7).jpg	No Tumor	Systemic Lupus Erythematosus - CNS Vasculitis	Radiopaedia Case 30792
Bhuvaji	image (10).jpg	No Tumor	Multiple Sclerosis	Radiopaedia Case 2634
Bhuvaji	image(31).jpg	No Tumor	CT Scan, Tuberous sclerosis	Radiopaedia Case 18933
Bhuvaji	image(38).jpg	No Tumor	Chronic Hypertensive Encephalopathy	Radiopaedia Case 25764
Bhuvaji	image (41).jpg	No Tumor	Developmental Venous Anomaly	Radiopaedia Case 52218
Bhuvaji	image (49).jpg	No Tumor	Pantothenate Kinase- Associated Neurodegeneration	Radiopaedia Case 45520
Bhuvaji	image(49)_T.jpg	Glioma	CT Scan, Hemimegalencephaly	Radiopaedia Case 6619
Bhuvaji	image(51)_T.jpg	Glioma	CT Scan, Subacute Hemorrhagic Stroke	Radiopaedia Case 4978
Bhuvaji	image(54)_T.jpg	Glioma	CT Scan, Pericallosal Lipoma - Tubulonodular	Radiopaedia Case 32953
Bhuvaji	image (56).jpg	No Tumor	CT Scan, Subarachnoid Hemorrhage	Radiopaedia Cases 22770, 34157
Bhuvaji	image(56)_T.jpg	Glioma	CT Scan, Melanoma Metastases	Radiopaedia Case 45137
Bhuvaji	image(57).jpg	No Tumor	Nasopharyngeal Carcinoma (Head and Neck Tumor)	Radiopaedia Case 24065
Bhuvaji	image(57).jpg	Glioma	Sinonasal Adenocarcinoma	Radiopaedia Case 23996
Bhuvaji	image (59).jpg	No Tumor	Progressive Multifocal Leukoencephalopathy	Wikipedia, "Progressive Multifocal Leukoencephalopathy"
Bhuvaji	image(62).jpg	No Tumor	Joubert Syndrome	Radiopaedia Case 22264
Bhuvaji	image (63).jpg	No Tumor	Megalencephalic Leukoencephalopathy	Radiopaedia Case 40536

			with Subcortical Cysts	
Bhuvaji	image (64).jpg	No Tumor	Pleomorphic Xanthoastrocytoma	Radiopaedia Case 42659
Bhuvaji	image(64).jpg	No Tumor	CT Scan, Subependymal Giant Cell Astrocytoma - Tuberous Sclerosis	Radiopaedia Case 6626
Bhuvaji	image(67).jpg	No Tumor	CT Scan, Pineal Cyst	Radiopaedia Case 23210
Bhuvaji	image(77)_T.jpg	No Tumor	Anterior Cerebral Artery Fenestration	Radiopaedia Case 24050
Bhuvaji	image(86).jpg	No Tumor	Ventriculomegaly with Hypoplastic Corpus Callosum	Kora et al. 2016, JPNIM, Figure 5
Bhuvaji	image(86)_T.jpg	No Tumor	Cerebral Toxoplasmosis	Radiopaedia Case 5472
Bhuvaji	image(91).jpg	No Tumor	Chiari I Malformation	Radiopaedia Case 2592
Bhuvaji	image(93).jpg	No Tumor	Multiple Sclerosis	Radiopaedia Case 2634
Bhuvaji	image(94).jpg	No Tumor	Mature Pituitary Teratoma	Eurorad Case 14314
Bhuvaji	image(94)_T.jpg	No Tumor	Lhermitte-Duclos Disease	Radiopaedia Case 28029