

nodules on LIDC-IDRI

I. OVERALL STATISTICS

The confusion matrix for each type is shown in Table I. The overall classification rate is 83.1%. Results for all cases are shown. Scores are presented on the most right of the image. It should be noted that cases not correctly classified are labeled out using red rectangles.

TABLE I
CONFUSION MATRIX FOR *nodules* ON LIDC-IDRI

	G	W	N	P	V	J
G	0.80	0.00	0.20	0.00	0.01	0.00
W	0.01	0.83	0.05	0.00	0.13	0.01
N	0.05	0.07	0.92	0.06	0.04	0.07
P	0.00	0.00	0.12	0.91	0.05	0.00
V	0.07	0.04	0.02	0.00	0.88	0.01
J	0.01	0.00	0.19	0.00	0.00	0.86

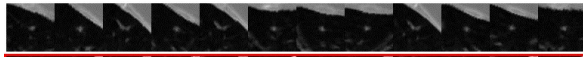
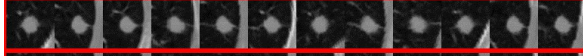
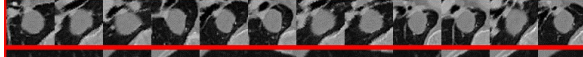
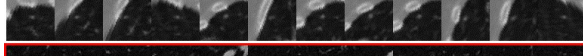
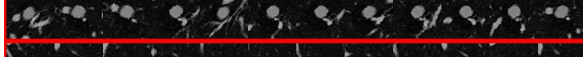
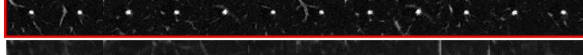
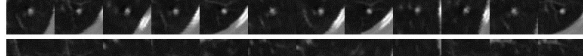
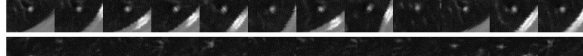
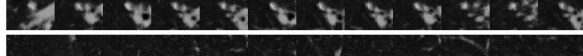
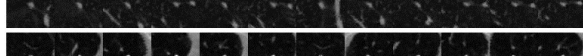
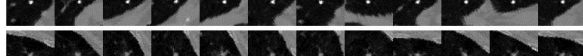
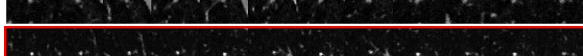
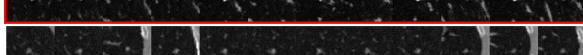
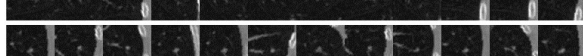
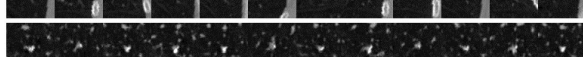
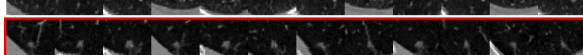
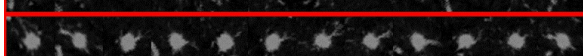
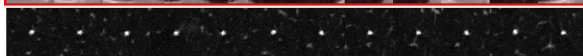
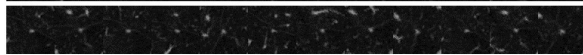
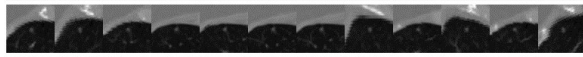
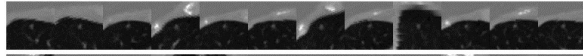
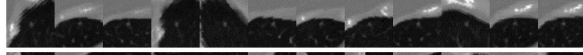
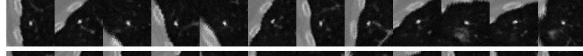
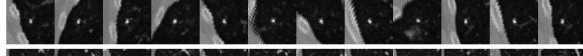
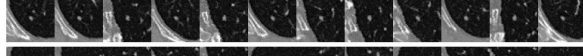
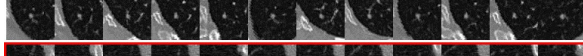
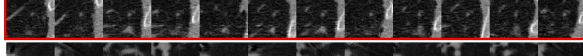
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P = Pleural-tail V = Vascularized J = Juxta-pleural

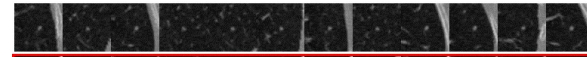
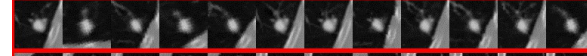
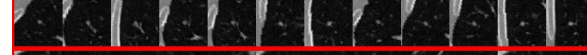
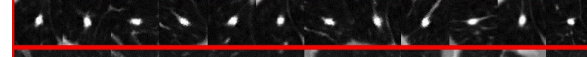
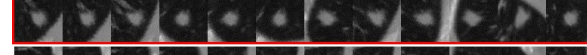
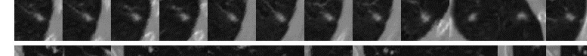
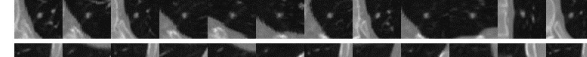
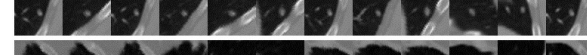
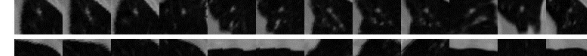
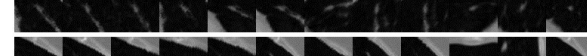
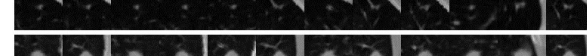
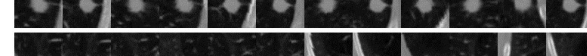
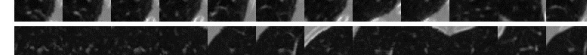
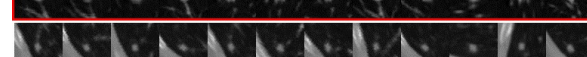
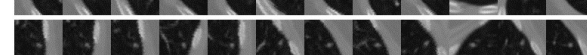
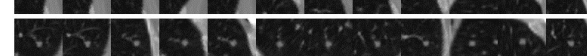
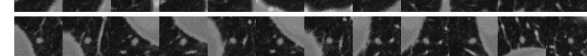
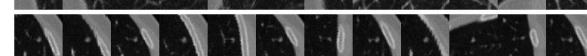
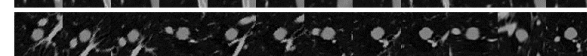
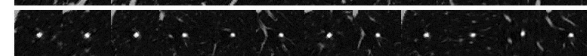
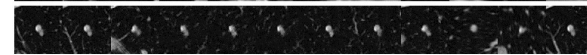
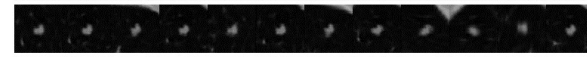
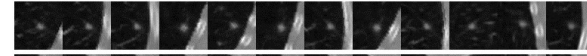
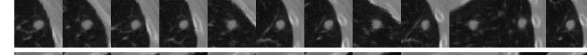
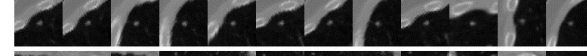
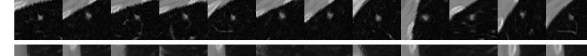
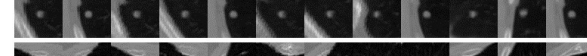
II. RESULTS

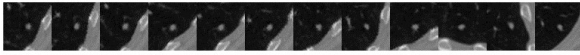
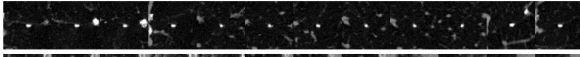
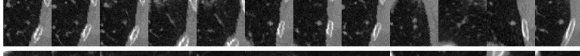
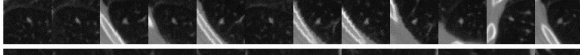
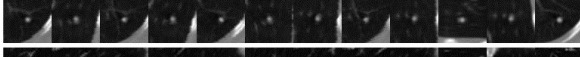
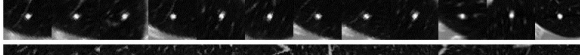
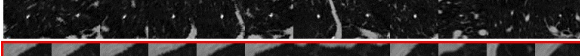
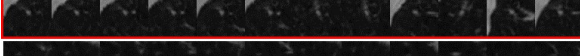
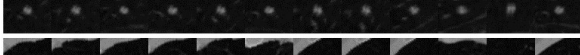
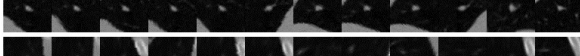
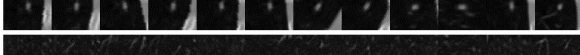
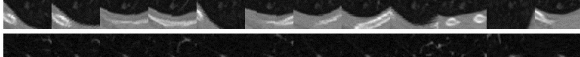
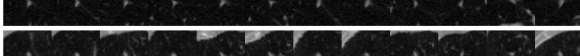
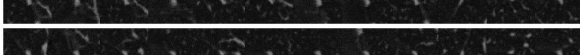
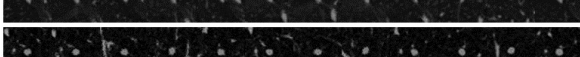
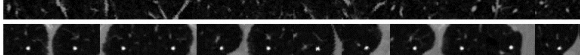
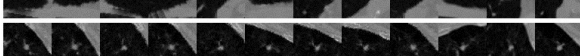
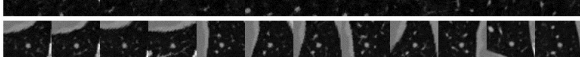
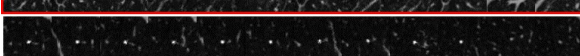
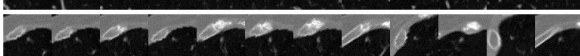
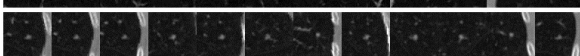
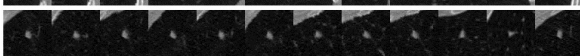
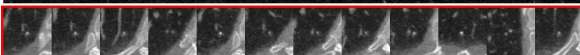
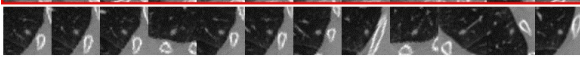
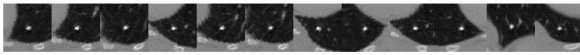
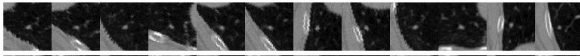
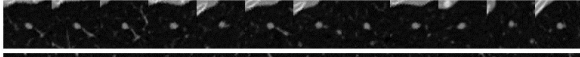
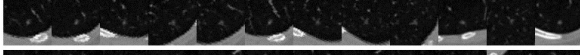
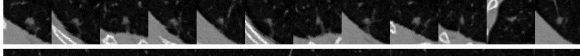
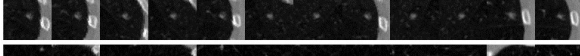
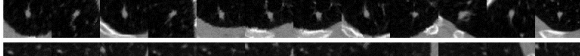
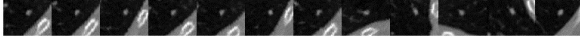
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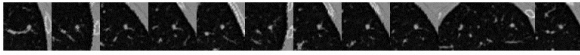
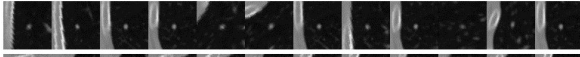
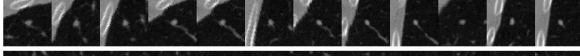
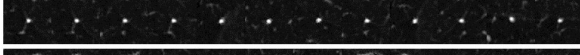
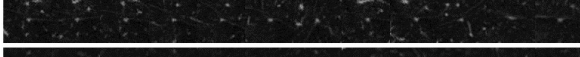
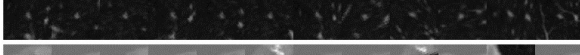
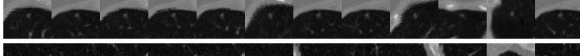
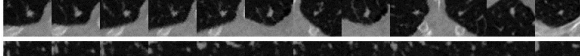
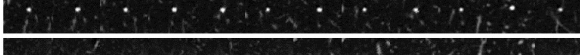
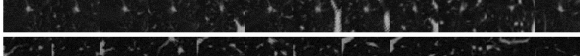
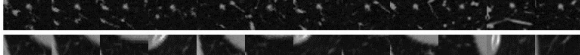
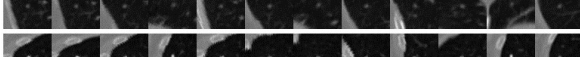
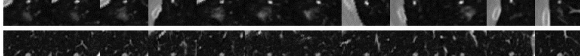
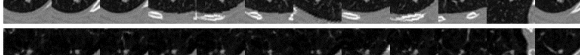
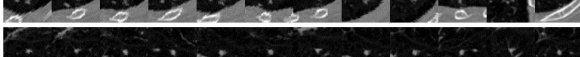
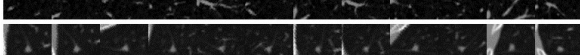
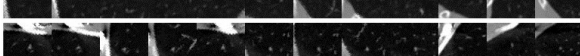
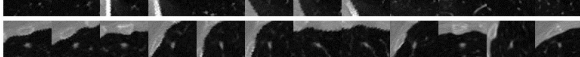
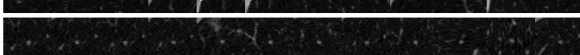
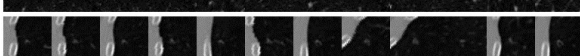
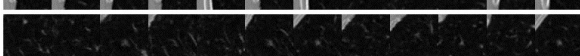
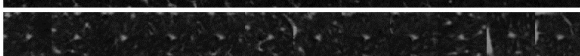
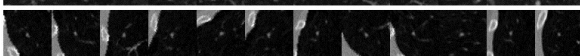
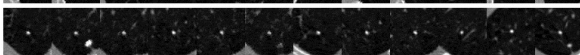
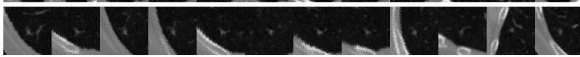
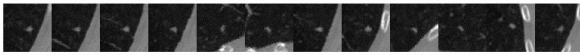
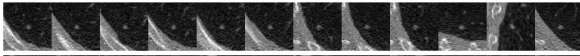
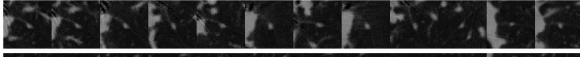
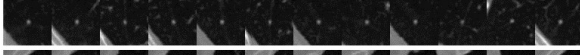
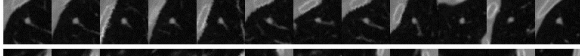
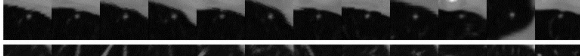
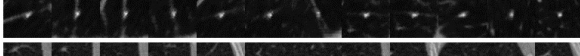
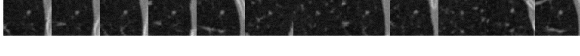
- [II-A](#) Well-circumscribed
- [II-B](#) GGO
- [II-C](#) Juxta-pleural
- [II-D](#) Pleural-tail
- [II-E](#) Vascularized
- [II-F](#) Non-nodule

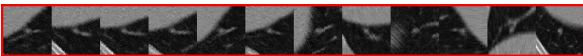
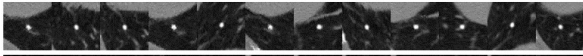
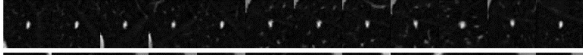
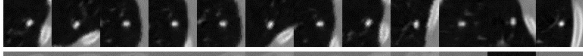
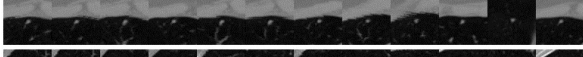
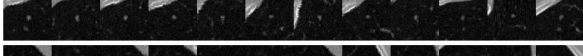
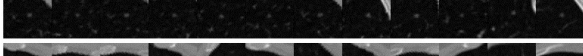
A. *Well-circumscribed for nodules*

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0.618	
	V
0.482	
	V
0.487	
	G
0.394	
	V
0.401	
	W
0.470	
	V
0.511	
	V
0.727	
	W
0.763	
	W
0.785	
	W
0.434	
	W
0.623	
	W
0.749	
	W
0.540	
	V
0.503	
	W
0.654	
	W
0.616	
	W
0.768	
	V
0.665	
	V
0.678	
	V
0.692	
	V
0.583	
	V
0.573	
	V
0.534	
	W
0.564	
	W
0.802	
	W
0.882	
	W
0.834	
	W
0.820	
	W
0.934	
	W
0.849	
	W
0.843	
	W
0.775	
	V
0.662	
	W
0.508	

	W
0.780	
	V
0.516	
	V
0.566	
	V
0.810	
	V
0.761	
	W
0.568	
	W
0.802	
	W
0.586	
	W
0.651	
	W
0.386	
	W
0.585	
	W
0.497	
	W
0.667	
	V
0.595	
	W
0.511	
	W
0.361	
	V
0.721	
	W
0.556	
	W
0.546	
	W
0.573	
	W
0.573	
	W
0.855	
	W
0.563	
	W
0.703	
	W
0.711	
	W
0.925	
	W
0.594	
	W
0.595	
	W
0.538	
	W
0.945	
	W
0.834	
	G
0.617	
	W
0.953	
	W
0.600	
	W
0.930	

	W 0.909
	W 0.829
	W 0.497
	W 0.879
	W 0.813
	W 0.769
	W 0.801
	N 0.705
	W 0.650
	W 0.692
	W 0.787
	W 0.748
	W 0.643
	W 0.599
	W 0.795
	W 0.765
	W 0.888
	W 0.608
	W 0.879
	J 0.375
	W 0.731
	W 0.878
	W 0.642
	W 0.789
	N 0.533
	W 0.661
	W 0.909
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	W 0.568
	W 0.728
	W 0.891
	W 0.619
	W 0.787

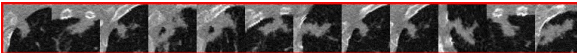
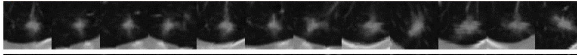
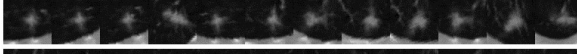
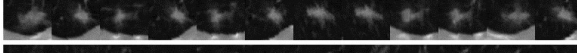
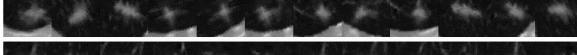
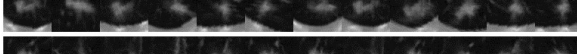
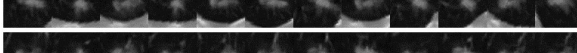
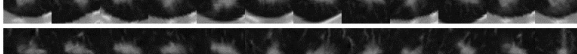
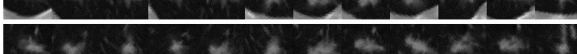
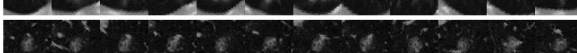
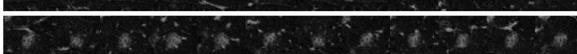
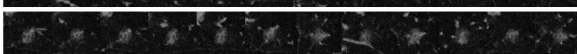
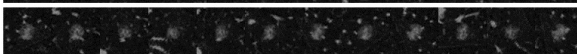
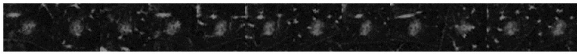
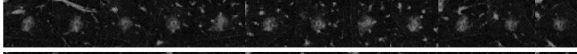
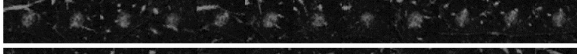
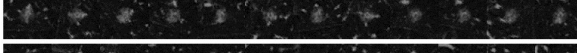
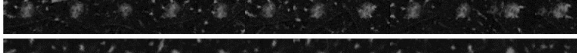
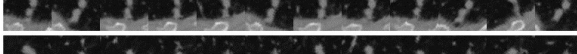
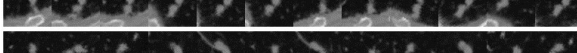
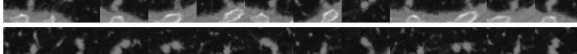
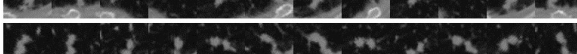
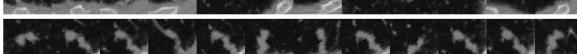
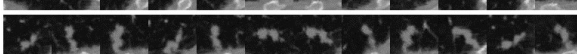
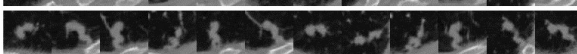
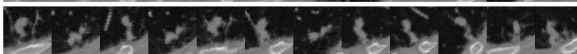
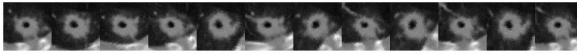
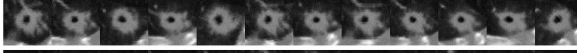
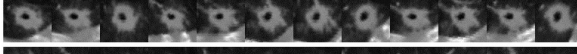
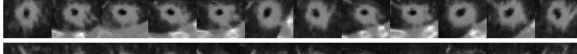
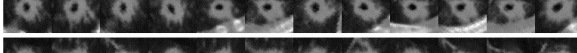
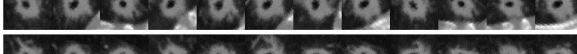
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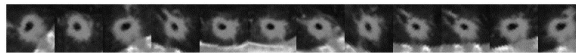
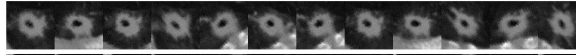
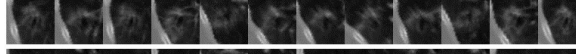
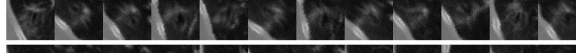
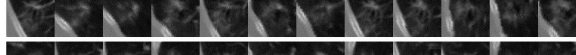
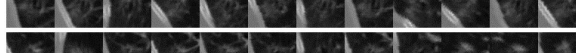
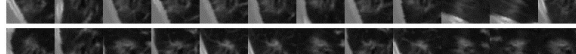
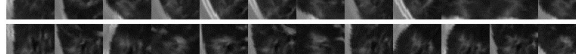
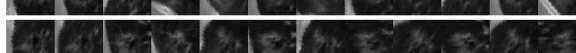
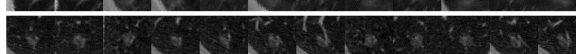
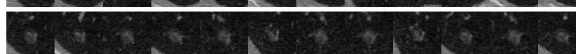
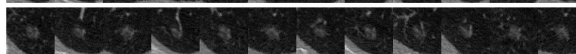
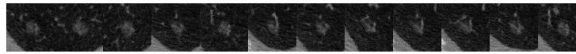
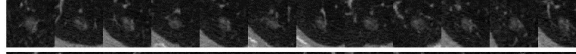
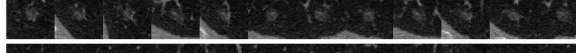
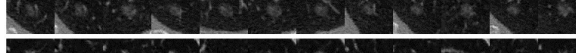
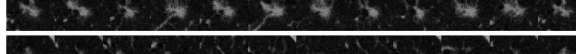
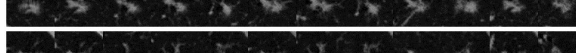
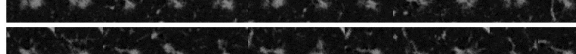
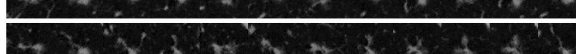
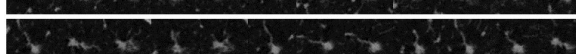
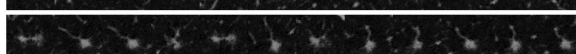
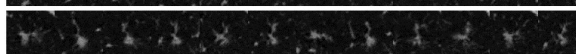
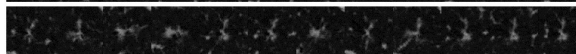
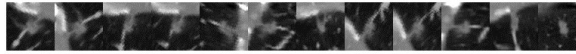
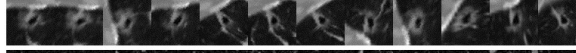
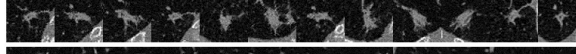
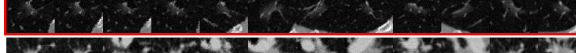
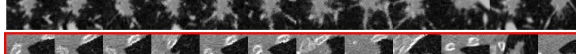
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	W 0.818
	W 0.892
	W 0.724
	W 0.716
	W 0.875
	W 0.826
	W 0.894
	W 0.866

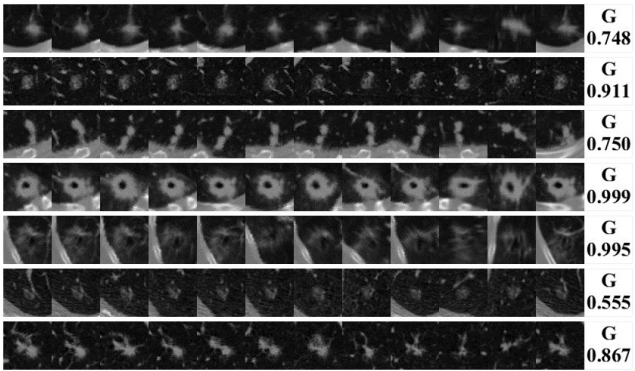
B. GGO for nodules

	G	0.603
	N	0.393
	G	0.532
	G	0.978
	G	0.857
	G	0.486
	G	0.795
	G	0.774
	G	0.949
	G	0.703
	N	0.510
	G	0.895
	G	0.946
	N	0.521
	G	0.856
	G	0.963
	G	0.946
	G	0.988
	G	0.969
	G	0.939
	G	0.954
	G	0.970
	G	0.951
	G	0.944
	G	0.964
	G	0.964
	G	0.963
	N	0.520
	N	0.507
	N	0.794
	G	0.880
	N	0.634
	G	0.583
	G	0.664
	G	0.733

	G	0.811
	V	0.339
	G	0.521
	G	0.595
	G	0.628
	G	0.845
	G	0.871
	G	0.977
	G	0.970
	N	0.629
	N	0.807
	N	0.761
	N	0.621
	N	0.631
	N	0.705
	N	0.751
	N	0.559
	N	0.581
	G	0.895
	G	0.919
	G	0.711
	G	0.623
	N	0.375
	G	0.619
	N	0.406
	G	0.572
	G	0.520
	N	0.530
	N	0.677
	N	0.729
	N	0.553
	N	0.736
	N	0.763
	N	0.835
	N	0.832

	N 0.858
	G 0.804
	G 0.782
	G 0.917
	G 0.909
	G 0.937
	G 0.919
	G 0.918
	G 0.988
	G 0.981
	G 0.938
	G 0.852
	G 0.878
	G 0.709
	G 0.497
	G 0.759
	G 0.905
	G 0.820
	G 0.952
	G 0.933
	G 0.993
	G 0.971
	G 0.988
	G 0.977
	G 0.991
	G 0.972
	G 0.978
	G 0.840
	G 0.992
	G 0.995
	G 0.995
	G 0.997
	G 0.998
	G 0.997
	G 0.998

	G 0.997
	G 0.999
	G 0.997
	G 0.997
	G 0.995
	G 0.997
	G 0.998
	G 0.996
	G 0.997
	G 0.994
	G 0.992
	G 0.788
	G 0.639
	G 0.645
	G 0.752
	G 0.465
	G 0.709
	G 0.521
	G 0.458
	G 0.914
	G 0.871
	G 0.788
	G 0.762
	G 0.805
	G 0.588
	G 0.624
	G 0.733
	G 0.873
	G 0.807
	G 0.913
	G 0.936
	G 0.537
	N 0.564
	G 0.903
	N 0.789



C. Juxta-pleural for nodules

	J	0.789
	J	0.805
	J	0.852
	J	0.907
	J	0.729
	J	0.812
	N	0.771
	J	0.730
	J	0.780
	J	0.422
	J	0.477
	J	0.885
	J	0.934
	J	0.561
	J	0.804
	J	0.707
	J	0.698
	J	0.591
	J	0.945
	N	0.882
	J	0.668
	J	0.538
	J	0.492
	G	0.480
	G	0.549
	N	0.431
	J	0.981
	J	0.939
	J	0.602
	J	0.534
	N	0.677
	N	0.676
	J	0.989
	J	0.980
	J	0.539

	J	0.475
	J	0.830
	J	0.865
	J	0.868
	J	0.898
	J	0.758
	J	0.656
	J	0.967
	J	0.921
	J	0.513
	J	0.603
	J	0.580
	J	0.729
	J	0.542
	J	0.784
	J	0.813
	J	0.991
	J	0.973
	N	0.976
	N	0.965
	J	0.724
	J	0.692
	J	0.493
	N	0.852
	J	0.539
	J	0.524
	J	0.577
	J	0.929
	J	0.889
	J	0.910
	J	0.874
	J	0.851
	J	0.813
	J	0.737
	J	0.638

	J
	0.562
	J
	0.739
	J
	0.758
	J
	0.991
	J
	0.985
	J
	0.717
	J
	0.721
	J
	0.780
	J
	0.768
	J
	0.571
	J
	0.471
	J
	0.449
	J
	0.529
	J
	0.844
	J
	0.889
	J
	0.880
	J
	0.644
	J
	0.937
	J
	0.542
	J
	0.651
	J
	0.760
	J
	0.641
	J
	0.545
	J
	0.605
	J
	0.661
	J
	0.952
	J
	0.972
	J
	0.611
	J
	0.760
	J
	0.764
	J
	0.757
	J
	0.920
	J
	0.929
	J
	0.879
	J
	0.870

	J
	0.810
	J
	0.733
	J
	0.921
	J
	0.956
	J
	0.917
	J
	0.882
	J
	0.768
	J
	0.729
	J
	0.782
	J
	0.561
	N
	0.640
	J
	0.516
	N
	0.508
	J
	0.801
	J
	0.832
	J
	0.938
	J
	0.819
	J
	0.907
	J
	0.656
	J
	0.839
	J
	0.519
	J
	0.843
	J
	0.822
	J
	0.745
	J
	0.590
	J
	0.644
	J
	0.573
	N
	0.703
	N
	0.709
	J
	0.587
	J
	0.614
	J
	0.809
	N
	0.655
	J
	0.710
	N
	0.837

	N
	0.481
	J
	0.899
	J
	0.577
	J
	0.866
	N
	0.499
	J
	0.754
	J
	0.467
	G
	0.436
	N
	0.869
	J
	0.949
	J
	0.564
	N
	0.791
	J
	0.982
	J
	0.492
	J
	0.791
	J
	0.811
	J
	0.789
	J
	0.869
	J
	0.348
	J
	0.795
	J
	0.450
	J
	0.851
	J
	0.983
	N
	0.972
	J
	0.567
	J
	0.680
	N
	0.837
	N
	0.648
	J
	0.413
	J
	0.454
	J
	0.917
	J
	0.593
	J
	0.503
	J
	0.770
	J
	0.715

	J
	0.566
	J
	0.503
	J
	0.856
	J
	0.763
	J
	0.816
	J
	0.619
	J
	0.675
	J
	0.523
	J
	0.962
	J
	0.677
	J
	0.812
	N
	0.489
	J
	0.928
	J
	0.896
	J
	0.712
	J
	0.945
	J
	0.609
	J
	0.582
	N
	0.589
	J
	0.541
	J
	0.730
	J
	0.932
	J
	0.567
	N
	0.618
	J
	0.833
	N
	0.857
	J
	0.444
	N
	0.721
	J
	0.425
	J
	0.645

D. Pleural-tail for nodules

	P
	0.879
	P
	0.842
	P
	0.801
	P
	0.826
	P
	0.767
	P
	0.730
	P
	0.418
	P
	0.476
	P
	0.466
	P
	0.805
	P
	0.422
	P
	0.369
	P
	0.690
	P
	0.317
	N
	0.441
	P
	0.623
	P
	0.638
	P
	0.477
	P
	0.902
	P
	0.897
	P
	0.897
	V
	0.494
	V
	0.610
	V
	0.561
	P
	0.599
	P
	0.585
	P
	0.788
	P
	0.745
	P
	0.748
	P
	0.810
	P
	0.866
	P
	0.876
	P
	0.920
	P
	0.841
	P
	0.932

	P
	0.966
	P
	0.967
	P
	0.960
	P
	0.902
	P
	0.901
	P
	0.932
	P
	0.675
	P
	0.606
	P
	0.618
	P
	0.729
	P
	0.932
	P
	0.910
	P
	0.922
	P
	0.535
	P
	0.497
	P
	0.605
	P
	0.855
	P
	0.922
	P
	0.927
	P
	0.821
	P
	0.785
	P
	0.884
	P
	0.741
	V
	0.532
	V
	0.672
	V
	0.511
	P
	0.646
	P
	0.620
	P
	0.969
	P
	0.739
	P
	0.896
	P
	0.869
	P
	0.870
	P
	0.716
	P
	0.870

	P
	0.694
	P
	0.681
	P
	0.700
	P
	0.602
	P
	0.663
	P
	0.819
	P
	0.782
	P
	0.899
	P
	0.905
	P
	0.833
	P
	0.715
	P
	0.821
	P
	0.858
	P
	0.895
	P
	0.614
	P
	0.942
	P
	0.968
	P
	0.955
	P
	0.750
	P
	0.778
	P
	0.937
	P
	0.924
	P
	0.899
	P
	0.607
	P
	0.621
	P
	0.568
	N
	0.929
	N
	0.920
	P
	0.485
	P
	0.819
	P
	0.725
	P
	0.720
	P
	0.750
	P
	0.846
	P
	0.849

	P
	0.833
	P
	0.851
	P
	0.880
	P
	0.622
	P
	0.823
	P
	0.847
	P
	0.720
	P
	0.675
	P
	0.735
	P
	0.635
	P
	0.685
	P
	0.812
	P
	0.819
	P
	0.438
	P
	0.539
	P
	0.899
	P
	0.582
	P
	0.435
	P
	0.323
	P
	0.603
	P
	0.873
	V
	0.621
	P
	0.719
	P
	0.830
	P
	0.838
	P
	0.939
	P
	0.781
	P
	0.949
	P
	0.857
	P
	0.566
	P
	0.874
	P
	0.934
	P
	0.471
	P
	0.934
	P
	0.753

	P 0.551
	V 0.506
	P 0.947
	P 0.587
	P 0.442
	P 0.741
	N 0.545
	N 0.662
	P 0.705
	P 0.456
	V 0.455
	P 0.821
	P 0.483
	P 0.892
	P 0.536
	P 0.866
	P 0.733
	P 0.891
	P 0.849
	P 0.754
	P 0.659
	P 0.555
	P 0.878
	P 0.952
	N 0.904
	P 0.461
	P 0.696
	P 0.789
	P 0.749
	P 0.614
	P 0.604
	P 0.605
	P 0.931

E. Vascularized for nodules

	V
	0.777
	V
	0.739
	V
	0.815
	V
	0.531
	V
	0.750
	V
	0.932
	V
	0.942
	G
	0.616
	V
	0.630
	V
	0.647
	V
	0.637
	N
	0.745
	G
	0.843
	V
	0.696
	V
	0.571
	V
	0.485
	V
	0.574
	V
	0.594
	V
	0.787
	V
	0.738
	V
	0.712
	V
	0.284
	V
	0.343
	V
	0.294
	V
	0.972
	V
	0.968
	V
	0.654
	V
	0.538
	V
	0.436
	V
	0.332
	V
	0.912
	V
	0.914
	V
	0.748
	V
	0.794
	V
	0.735

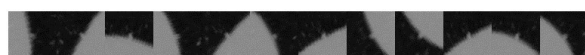
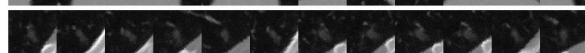
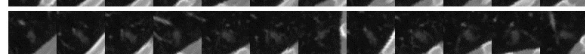
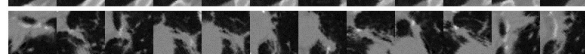
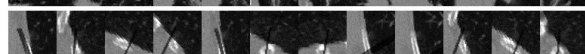
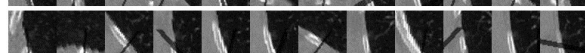
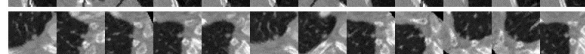
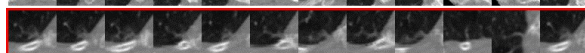
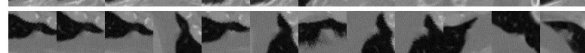
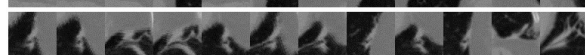
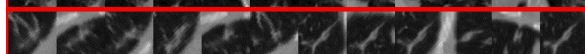
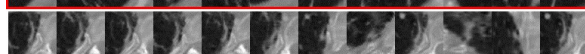
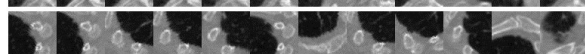
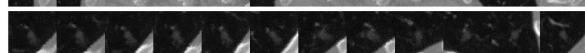
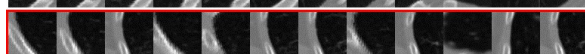
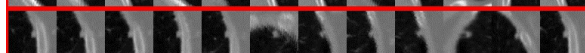
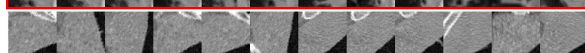
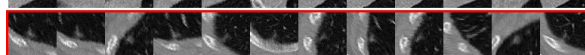
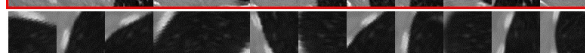
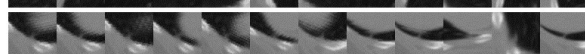
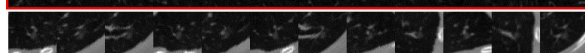
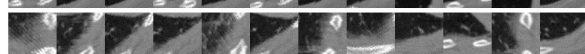
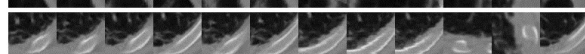
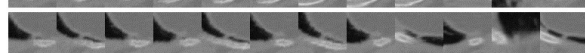
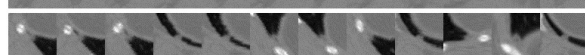
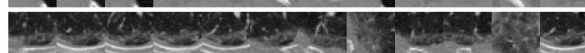
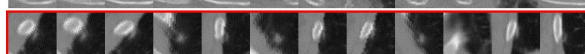
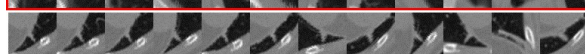
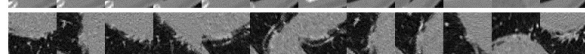
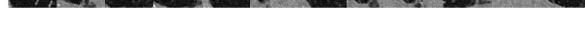
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	V
	0.725
	V
	0.710
	V
	0.789
	V
	0.810
	V
	0.542
	V
	0.927
	V
	0.693
	V
	0.945
	V
	0.955
	V
	0.868
	V
	0.900
	V
	0.657
	V
	0.707
	V
	0.874
	V
	0.755
	G
	0.940
	V
	0.664
	V
	0.854
	V
	0.869
	V
	0.821
	V
	0.841
	V
	0.775
	V
	0.703
	V
	0.741
	V
	0.925
	V
	0.773
	V
	0.600
	V
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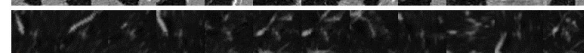
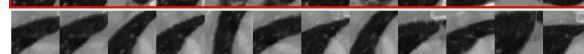
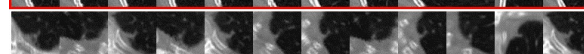
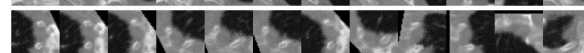
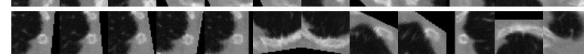
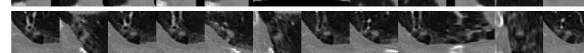
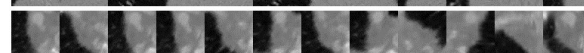
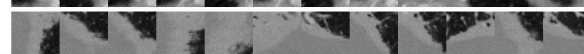
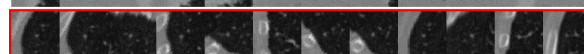
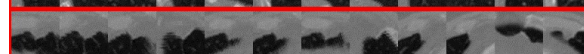
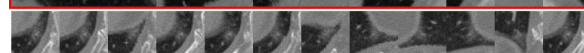
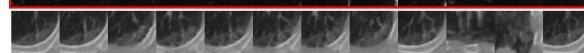
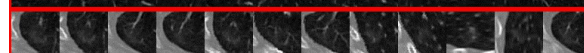
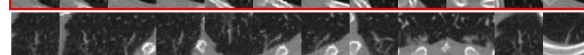
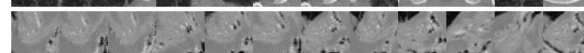
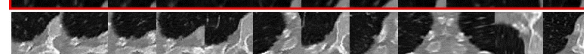
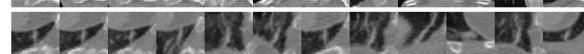
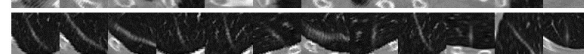
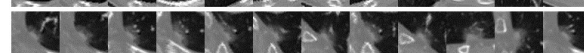
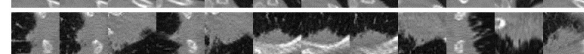
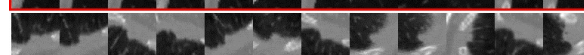
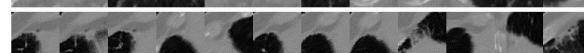
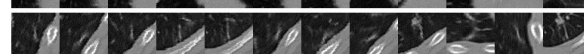
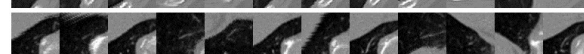
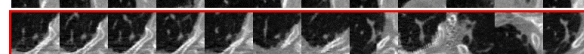
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	V
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	V
	0.633
	V
	0.873
	V
	0.775
	V
	0.848
	V
	0.667
	G
	0.900
	G
	0.892
	V
	0.731
	V
	0.649
	V
	0.691
	W
	0.514
	V
	0.658
	V
	0.672
	G
	0.664
	V
	0.956
	V
	0.734
	V
	0.613
	W
	0.438
	V
	0.549
	V
	0.855
	G
	0.508
	V
	0.518
	G
	0.490
	V
	0.708
	V
	0.888
	V
	0.518
	V
	0.366
	V
	0.703
	V
	0.529
	V
	0.739
	V
	0.692
	V
	0.511
	V
	0.964

	V
	0.559
	V
	0.817
	V
	0.741
	V
	0.966
	V
	0.499
	V
	0.525
	V
	0.602
	V
	0.799
	V
	0.918
	V
	0.469
	V
	0.592
	V
	0.555
	V
	0.535
	V
	0.941
	V
	0.841
	V
	0.694
	V
	0.476
	V
	0.590
	V
	0.734
	V
	0.761
	G
	0.963
	V
	0.549
	V
	0.789
	V
	0.815
	V
	0.713
	V
	0.716
	V
	0.788
	V
	0.835
	W
	0.571
	V
	0.626
	V
	0.567
	V
	0.581
	V
	0.615
	V
	0.721
	V
	0.658

	V 0.529
	V 0.568
	V 0.512
	V 0.660
	V 0.529
	W 0.833
	V 0.801
	V 0.696
	V 0.698
	V 0.452
	V 0.563
	V 0.709
	G 0.816
	V 0.800
	V 0.608
	V 0.721
	V 0.805
	W 0.600
	W 0.723
	V 0.948
	G 0.564
	V 0.471
	V 0.769
	W 0.689
	V 0.505

F. Non-nodule for nodules

	N
	0.793
	N
	0.553
	N
	0.679
	N
	0.860
	N
	0.458
	N
	0.499
	N
	0.953
	J
	0.514
	N
	0.944
	N
	0.944
	N
	0.860
	J
	0.766
	G
	0.639
	N
	0.580
	N
	0.997
	N
	0.636
	P
	0.406
	J
	0.761
	J
	0.274
	N
	0.839
	P
	0.422
	N
	0.544
	N
	0.968
	N
	0.577
	V
	0.486
	N
	0.741
	N
	0.993
	N
	0.870
	N
	0.982
	N
	0.943
	N
	0.990
	N
	0.955
	J
	0.526
	N
	0.587
	N
	0.845

	N
	0.915
	N
	0.376
	V
	0.851
	G
	0.971
	N
	0.534
	W
	0.509
	N
	0.708
	N
	0.985
	N
	0.989
	N
	0.603
	N
	0.933
	N
	0.803
	N
	0.864
	W
	0.428
	J
	0.555
	N
	0.499
	W
	0.601
	N
	0.983
	V
	0.515
	G
	0.978
	N
	0.465
	N
	0.739
	V
	0.302
	N
	0.951
	N
	0.943
	N
	0.820
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	0.863
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	0.494
	N
	0.758
	P
	0.847
	N
	0.874
	N
	0.961
	N
	0.925
	N
	0.632
	P
	0.719

	N
	0.829
	N
	0.936
	N
	0.838
	N
	0.861
	J
	0.920
	N
	0.575
	N
	0.915
	N
	0.810
	N
	0.965
	N
	0.790
	N
	0.654
	V
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	N
	0.990
	W
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	N
	0.421
	G
	0.904
	W
	0.395
	N
	0.499
	N
	0.916
	N
	0.992
	N
	0.780
	W
	0.688
	N
	0.547
	N
	0.699
	N
	0.928
	N
	0.919
	N
	0.676
	N
	0.973
	N
	0.793
	N
	0.819
	P
	0.585
	P
	0.645
	N
	0.911
	N
	0.560
	N
	0.950

	W
	0.735
	G
	0.948
	N
	0.995
	N
	0.820
	N
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	W
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	N
	0.728
	V
	0.376
	P
	0.600
	N
	0.853
	J
	0.699
	N
	0.442
	N
	0.837
	N
	0.946
	N
	0.945
	N
	0.861

	G
	0.425
	W
	0.788
	P
	0.731
	N
	0.977
	G
	0.846
	N
	0.533
	G
	0.935
	N
	0.898
	N
	0.865
	N
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	W
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	N
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	V
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	J
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	N
	0.574
	J
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	N
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	N
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