

nodules on ELCAP

I. OVERALL STATISTICS

The confusion matrix for each type is shown in Table I. The overall classification rate is 79.6%. 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 ELCAP

	G	W	N	P	V	J
G	0.74	0.21	0.05	0.00	0.00	0.00
W	0.00	0.61	0.37	0.00	0.01	0.01
N	0.00	0.00	1.00	0.00	0.00	0.00
P	0.00	0.00	0.23	0.77	0.00	0.00
V	0.03	0.05	0.14	0.00	0.78	0.00
J	0.01	0.00	0.40	0.01	0.00	0.58

G = Ground glass optic
P = Pleural-tail

W = Well-circumscribed
V = Vascularized

N = Non-nodule
J = Juxta-pleural

II. RESULTS

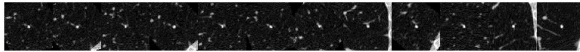
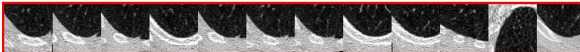

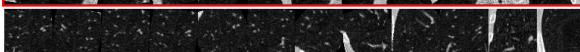
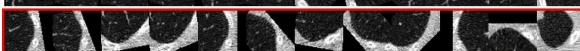
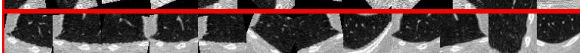
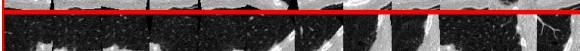
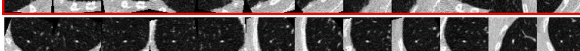
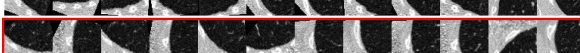



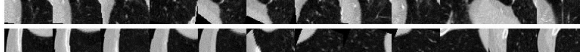


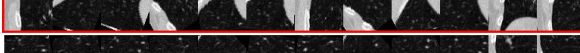
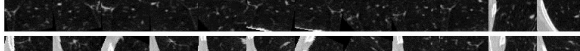
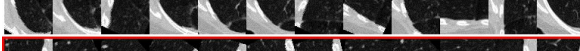

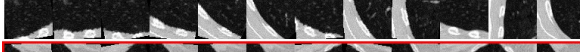

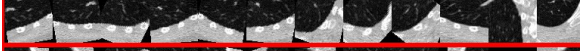


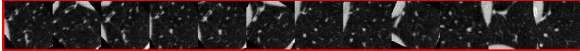
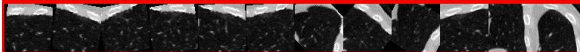



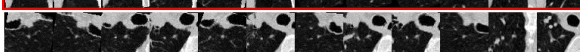
Click highlighted link to jump to corresponding section.

- **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*

	W
	0.831
	W
	0.818
	W
	0.830
	W
	0.815
	W
	0.527
	W
	0.494
	W
	0.746
	W
	0.511
	W
	0.470
	W
	0.487
	W
	0.797
	W
	0.839
	W
	0.830
	W
	0.628
	W
	0.803
	W
	0.599
	W
	0.705
	W
	0.506
	W
	0.471
	W
	0.681
	W
	0.565
	W
	0.637
	N
	0.734
	W
	0.648
	W
	0.662
	W
	0.504
	N
	0.450
	N
	0.605
	N
	0.546
	W
	0.478
	N
	0.999
	W
	0.727
	N
	0.603
	N
	0.364
	N
	0.639

	W
	0.659
	W
	0.754
	W
	0.463
	W
	0.639
	N
	0.514
	N
	0.537
	N
	0.447
	W
	0.638
	W
	0.719
	W
	0.814
	W
	0.638
	N
	0.608
	W
	0.753
	W
	0.339
	W
	0.755
	J
	0.484
	N
	0.510
	N
	0.572
	N
	0.434
	W
	0.769
	W
	0.463
	W
	0.503
	W
	0.452
	W
	0.605
	W
	0.638
	W
	0.751
	W
	0.749
	W
	0.975
	W
	0.796
	W
	0.781
	W
	0.445
	W
	0.548
	N
	0.398
	W
	0.646
	N
	0.352

	W 0.605
	N 0.444
	N 0.793
	W 0.405
	N 0.949
	N 0.614
	N 0.589
	W 0.883
	N 0.687
	N 0.667
	N 0.799
	W 0.364
	W 0.476
	N 0.641
	N 0.443
	W 0.463
	W 0.456
	N 0.747
	W 0.628
	N 0.548
	N 0.755
	N 0.692
	N 0.904
	V 0.406
	N 0.689
	N 0.515
	N 0.743
	N 0.840
	W 0.756
	N 0.595

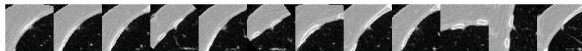

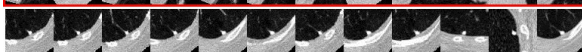

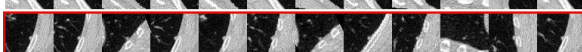
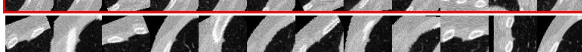

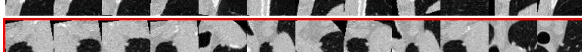

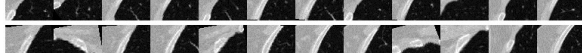


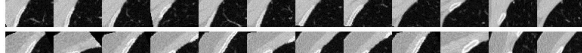


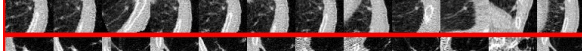
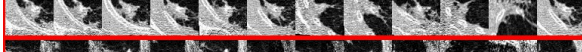
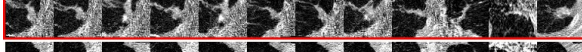
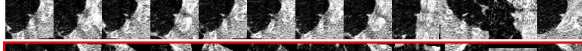
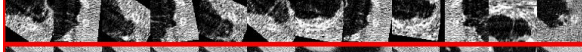

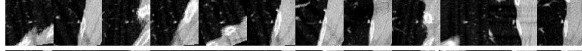
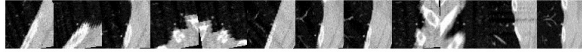
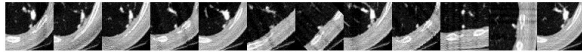
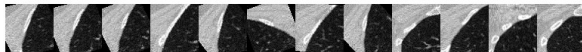


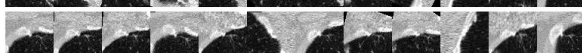

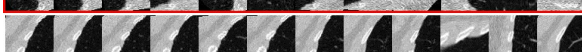
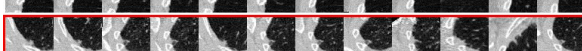

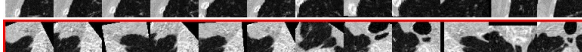


B. *GGO* for nodules

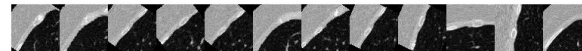

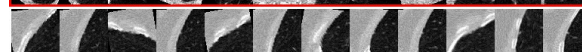

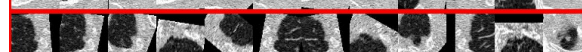
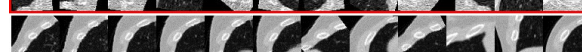
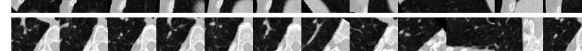
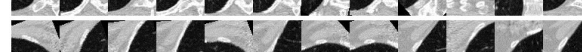
	G
	0.386
	G
	0.519
	G
	0.755
	G
	0.371
	W
	0.417
	W
	0.385
	N
	0.284
	W
	0.469
	G
	0.362
	W
	0.467
	G
	0.383
	G
	0.503
	G
	0.742
	G
	0.615
	G
	0.418
	G
	0.548
	G
	0.925
	G
	0.756
	G
	0.393

C. Juxta-pleural for nodules

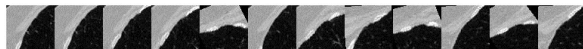
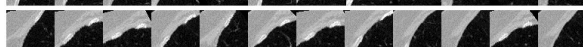
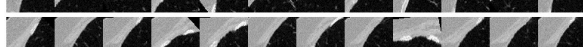
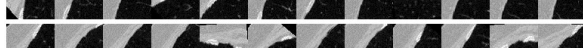
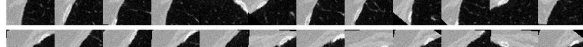
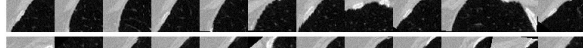

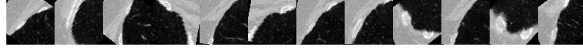




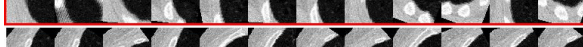

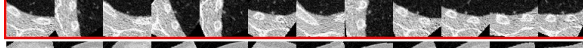



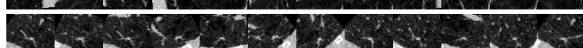
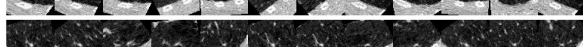

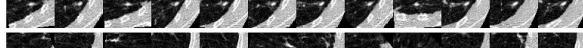

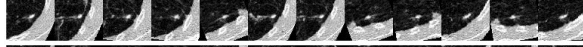

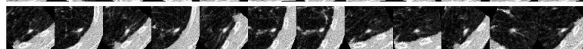
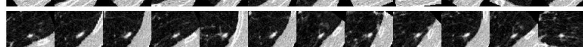
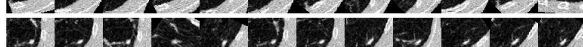
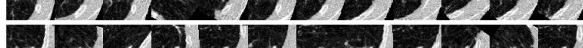
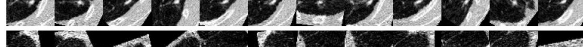








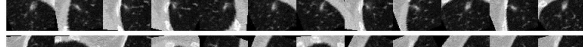
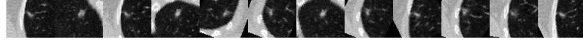


	J	0.799
	J	0.801
	J	0.586
	J	0.966
	N	0.655
	J	0.674
	J	0.903
	J	0.632
	J	0.612
	N	0.982
	J	0.982
	N	0.940
	J	0.724
	J	0.596
	J	0.634
	J	0.971
	J	0.656
	J	0.668
	J	0.915
	N	0.878
	J	0.847
	J	0.701
	J	0.505
	N	0.689
	J	0.583
	J	0.531
	J	0.785
	G	0.683
	N	0.544
	N	0.522
	N	0.681
	N	0.662
	N	0.548
	N	0.659
	N	0.782

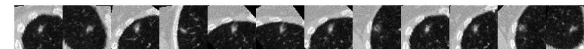
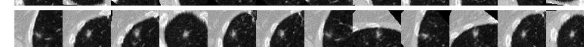
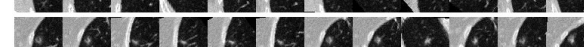
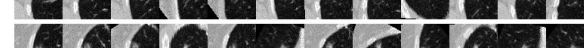

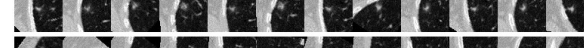
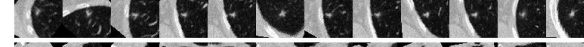



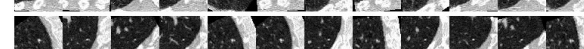
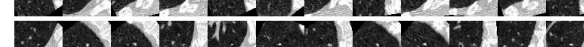



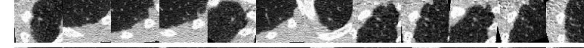

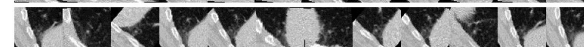
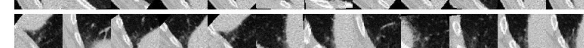
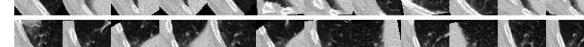

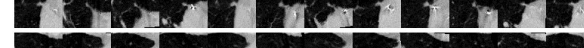


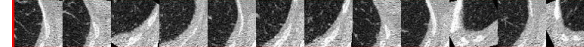

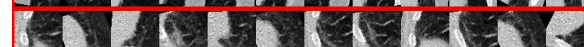

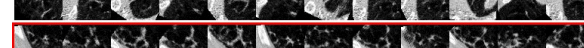


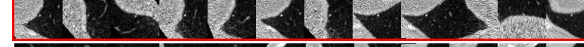



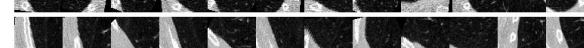
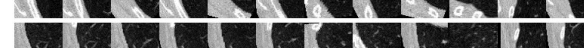
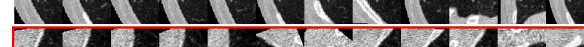




	N	0.955
	N	0.961
	N	0.805
	N	0.972
	N	0.803
	N	0.932
	N	0.992
	J	0.960
	N	0.986
	N	0.841
	N	0.823
	J	0.847
	J	0.637
	J	0.744
	J	0.576
	N	0.760
	N	0.882
	N	0.945
	J	0.766
	J	0.600
	J	0.695
	N	0.593
	J	0.646
	N	0.962
	J	0.802
	J	0.780
	J	0.711
	J	0.590
	N	0.996
	J	0.656
	J	0.810
	J	0.584
	J	0.493
	J	0.925
	N	0.772

	J 0.896
	N 0.986
	J 0.525
	J 0.537
	N 0.602
	J 0.809
	J 0.667
	N 0.914
	J 0.874
	J 0.711
	N 0.678
	J 0.526
	J 0.771
	N 0.621
	N 0.739
	N 0.658
	N 0.840
	J 0.880
	N 0.970
	N 0.884
	J 0.789
	J 0.502
	J 0.944
	J 0.503
	N 0.796
	J 0.589
	J 0.846
	N 0.983
	J 0.521
	N 0.765
	J 0.652
	N 0.934
	J 0.545
	J 0.794
	J 0.538

	J 0.506
	P 0.752
	J 0.781
	N 0.965
	N 0.991
	J 0.483
	J 0.481
	J 0.499

D. Pleural-tail for nodules

	P
	0.709
	P
	0.753
	P
	0.684
	P
	0.627
	P
	0.690
	P
	0.601
	P
	0.566
	P
	0.515
	P
	0.949
	N
	0.802
	N
	0.855
	P
	0.634
	N
	0.891
	P
	0.892
	P
	0.830
	P
	0.858
	P
	0.527
	P
	0.561
	P
	0.908
	P
	0.937
	P
	0.934
	P
	0.845
	P
	0.924
	P
	0.915
	P
	0.888
	P
	0.894
	P
	0.384
	P
	0.427
	P
	0.452
	P
	0.449
	N
	0.681
	P
	0.836
	P
	0.779
	P
	0.886
	P
	0.947

	P
	0.956
	P
	0.944
	P
	0.969
	P
	0.975
	P
	0.983
	P
	0.968
	P
	0.776
	P
	0.932
	P
	0.920
	P
	0.912
	P
	0.727
	N
	0.541
	N
	0.456
	P
	0.792
	P
	0.520
	P
	0.513
	P
	0.528
	P
	0.659
	P
	0.627
	P
	0.690
	P
	0.830
	N
	0.810
	N
	0.934
	N
	0.872
	P
	0.855
	N
	0.695
	P
	0.386
	N
	0.828
	P
	0.846
	P
	0.666
	P
	0.492
	P
	0.716
	P
	0.870
	N
	0.476
	N
	0.994

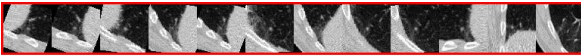
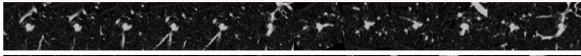

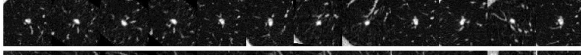
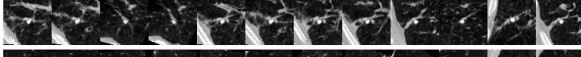
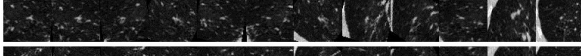
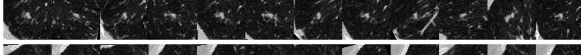
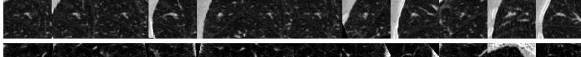
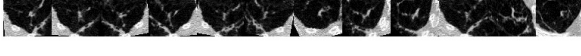
	P
	0.534
	P
	0.727
	P
	0.688
	N
	0.861
	N
	0.471
	P
	0.588
	P
	0.529
	N
	0.948
	N
	0.843
	N
	0.949
	N
	0.921
	N
	0.879
	P
	0.709
	N
	0.772
	N
	0.721
	N
	0.863
	N
	0.397
	P
	0.651
	N
	0.506
	P
	0.757
	N
	0.520
	P
	0.834
	P
	0.511
	P
	0.820
	P
	0.552
	P
	0.832
	N
	0.589
	P
	0.697
	P
	0.474
	P
	0.603
	P
	0.906
	P
	0.854
	P
	0.448
	P
	0.566
	P
	0.820

	P
	0.618
	P
	0.626
	P
	0.828
	P
	0.777
	P
	0.382
	P
	0.463
	P
	0.944
	P
	0.647
	P
	0.644
	P
	0.951
	P
	0.756
	P
	0.607
	P
	0.728
	P
	0.720
	P
	0.933
	P
	0.889
	N
	0.638
	N
	0.981
	P
	0.558
	P
	0.758
	N
	0.961
	P
	0.851
	P
	0.466
	N
	0.786
	P
	0.610
	P
	0.564
	P
	0.739
	P
	0.737
	P
	0.564
	P
	0.572
	N
	0.821
	P
	0.376
	P
	0.837

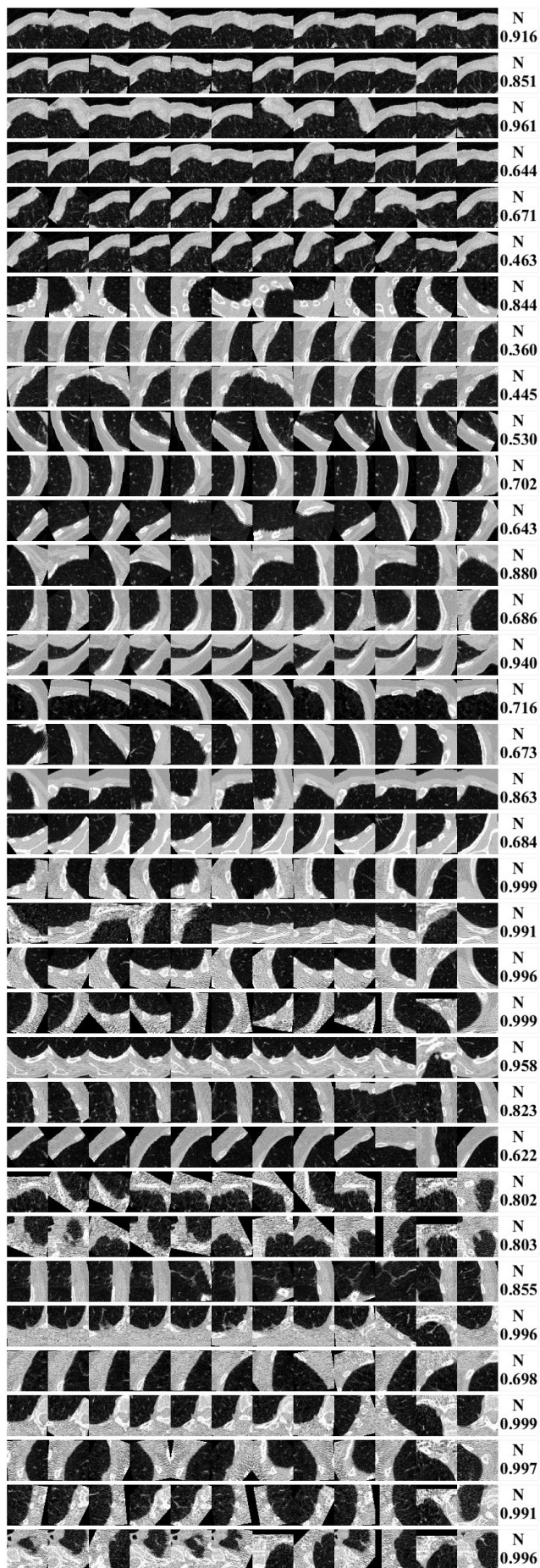
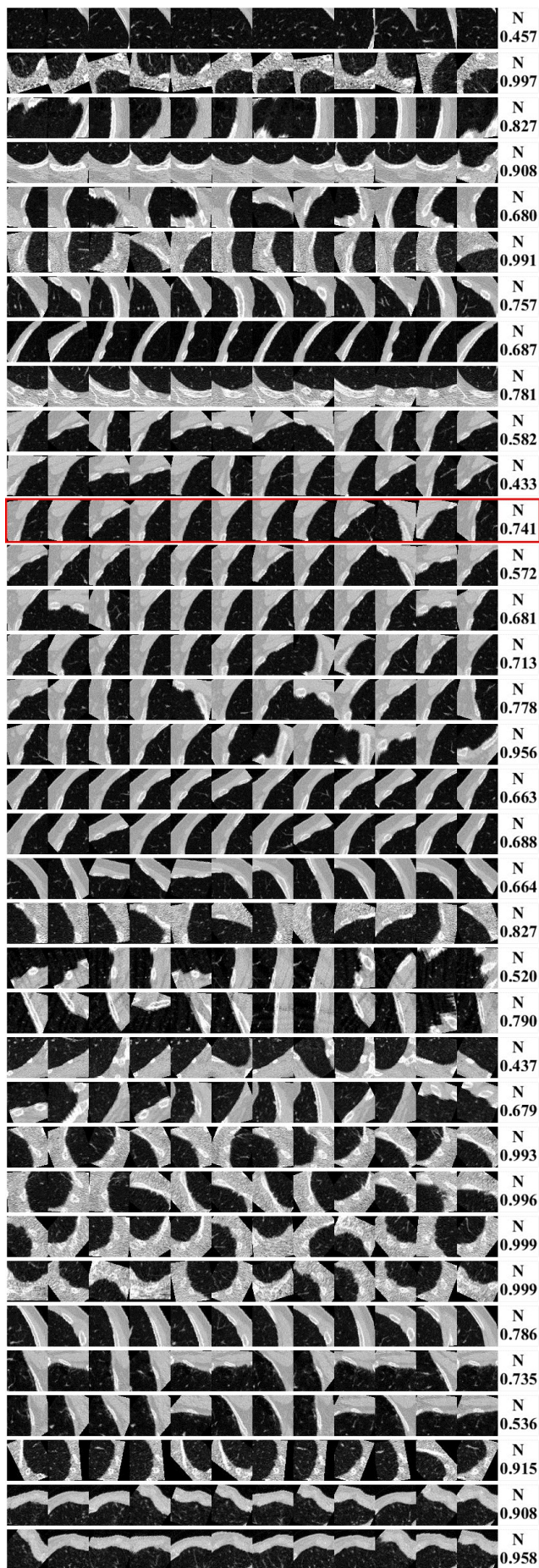
E. Vascularized for nodules

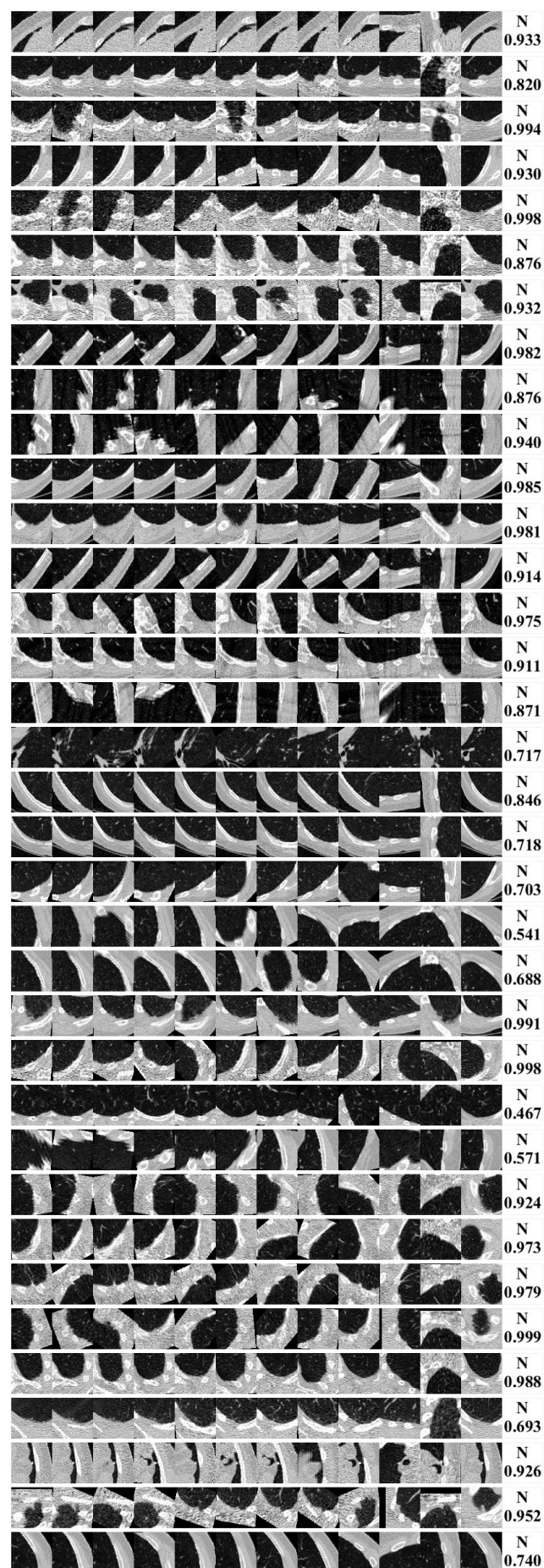
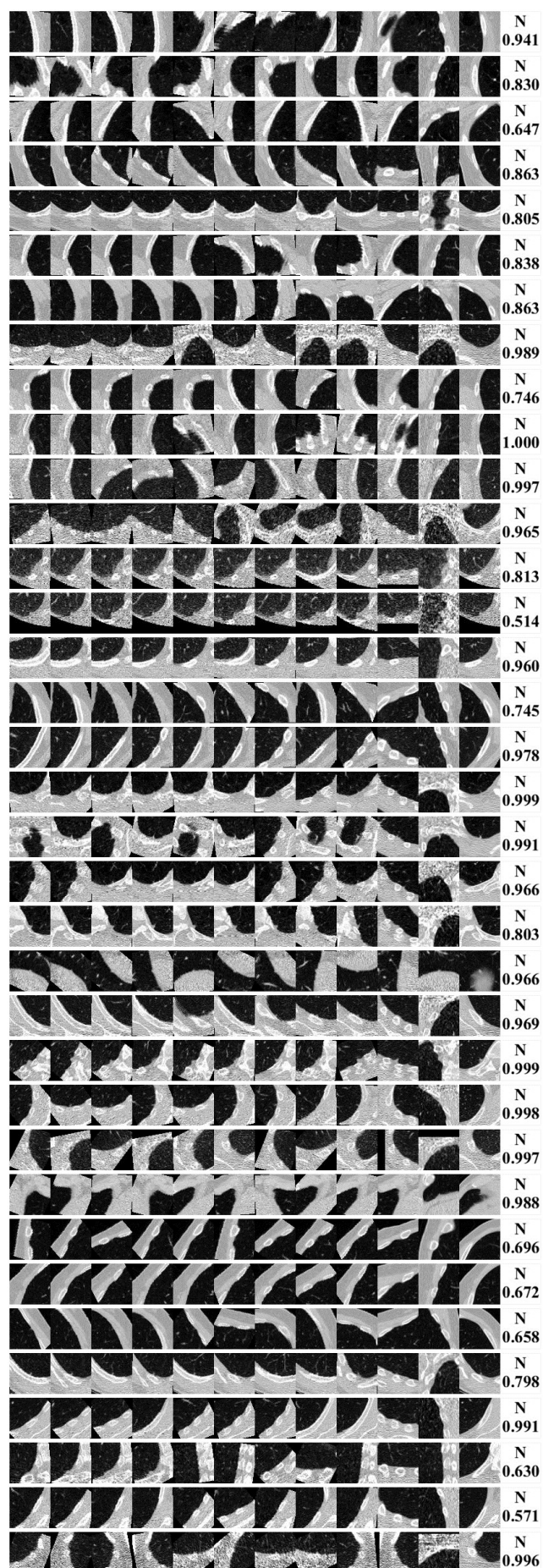
	W
	0.466
	N
	0.496
	N
	0.529
	N
	0.859
	N
	0.751
	V
	0.622
	V
	0.905
	V
	0.924
	V
	0.892
	V
	0.907
	V
	0.884
	V
	0.838
	V
	0.810
	V
	0.500
	N
	0.508
	V
	0.711
	V
	0.705
	V
	0.682
	V
	0.666
	V
	0.556
	V
	0.600
	V
	0.696
	V
	0.601
	V
	0.688
	N
	0.859
	N
	0.961
	N
	0.805
	W
	0.599
	W
	0.590
	W
	0.758
	V
	0.550
	V
	0.660
	V
	0.649
	G
	0.830
	G
	0.853

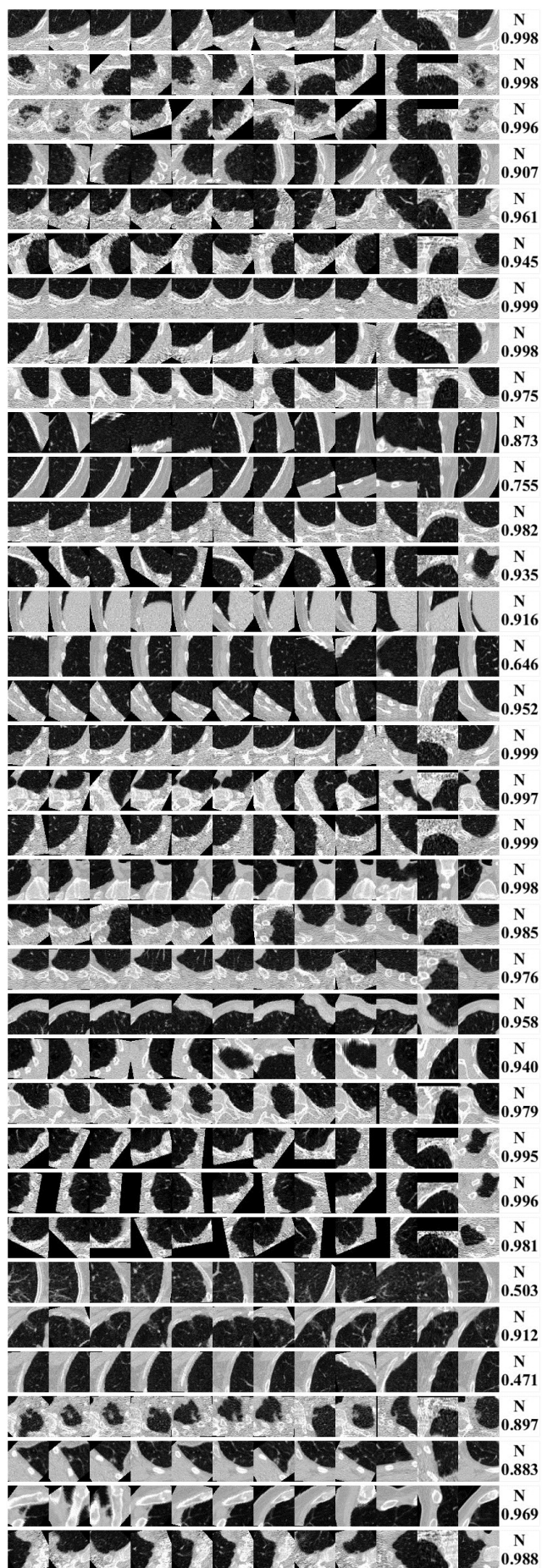
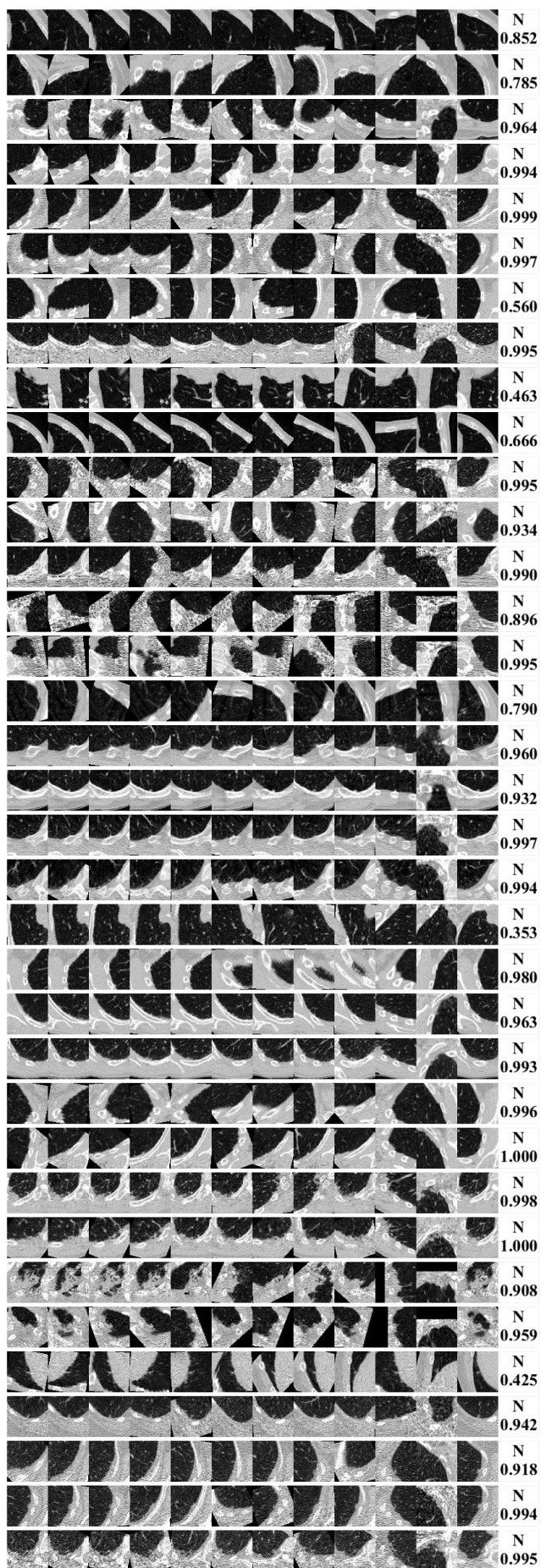
	V
	0.830
	V
	0.905
	V
	0.737
	V
	0.626
	V
	0.618
	V
	0.768
	V
	0.574
	V
	0.842
	V
	0.899
	V
	0.945
	V
	0.846
	V
	0.915
	V
	0.936
	V
	0.540
	V
	0.588
	V
	0.539
	V
	0.485
	V
	0.413
	V
	0.948
	V
	0.947
	V
	0.952
	V
	0.883
	V
	0.819
	V
	0.926
	V
	0.891
	V
	0.906
	V
	0.602
	N
	0.727
	V
	0.700
	V
	0.660
	V
	0.734
	N
	0.900
	V
	0.706
	V
	0.624
	V
	0.501

	N 0.468
	V 0.878
	V 0.490
	V 0.591
	V 0.527
	V 0.812
	V 0.907
	V 0.553
	V 0.905

F. Non-nodule for nodules







	N 0.766
	N 0.739
	N 0.725
	N 0.490
	N 0.910
	N 0.995
	N 0.858
	N 0.938
	N 0.961
	N 0.999
	N 0.747
	N 0.649
	N 0.626
	N 0.737
	N 0.815
	N 0.966
	N 0.974
	N 0.982
	N 0.916
	N 0.508
	N 0.734
	N 0.926
	N 0.669
	N 0.701
	N 0.627
	N 0.592
	N 0.838
	N 0.808
	N 0.905
	N 0.685
	N 0.996
	N 0.997