

**DICOM-Information**

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 Patient Name: MOISES VIEIRA  
 Patient ID: 1195250D  
 Patient Birthday: 19611109  
 Study Date: 20170920  
 Study Time: 121926  
 Study ID: 148072  
 Series Number: 2  
 Series Description: INSPIRACAO  
 Image Comments: INSPIRACAO  
 Voxelsize: 0.857 / 0.857 / 1.000 (Gap: 1.000)  
 Convolution Kernel: B  
 Matrix: 512x512  
 #Images:401

**Parenchyma Analysis Protocol**

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 Date/Time: 27/09/2017 08:54:28  
 yacta Version: yacta v2.7.0.5  
 Filter applied by yacta: 3x3 Gauss-Filter applied  
 Lung Separation by: MinimalPath  
 Lobe Segmentation by: Right -> Airways & Vessels & Fissures; Left -> Airways & Fissures  
 Air HU Mode: DefaultAirHU  
 Used Air HU: -1000 HU  
 TrachealAirHU: -958.173 HU  
 ExtraCorporalAirHU: -998 HU  
 GetMeanHUTracheaSlices: -684.757 HU  
 Threshold for EI calc.: -950 HU  
 R0: Range [-2000,-950] default emphysema range  
 R1: Range [-2000,-910] emphysema range corrected by TrachealAirHU  
 R2: Range [-2000,-948] emphysema range corrected by ExtraCorporalAirHU  
 R3: Range [-2000,-856] percent gas trapping Exp-856 (expiratory scans)  
 ET1: 0 means no bullae [-]  
 ET2: 0 means no peripher e-voxel [%]  
 ET3: 0 means no panlobulaer e-voxel [%]  
 Vessel Threshold: -500 HU  
 Major Fissure Completeness left (LUL <-> LLL): 0.699927  
 Major Fissure Completeness right (RUL <-> RLL): 0.748996  
 Major Fissure Completeness right (RML <-> RLL): 0.677232  
 Minor Fissure Completeness right (RUL <-> RML): 0.741742

**Results**

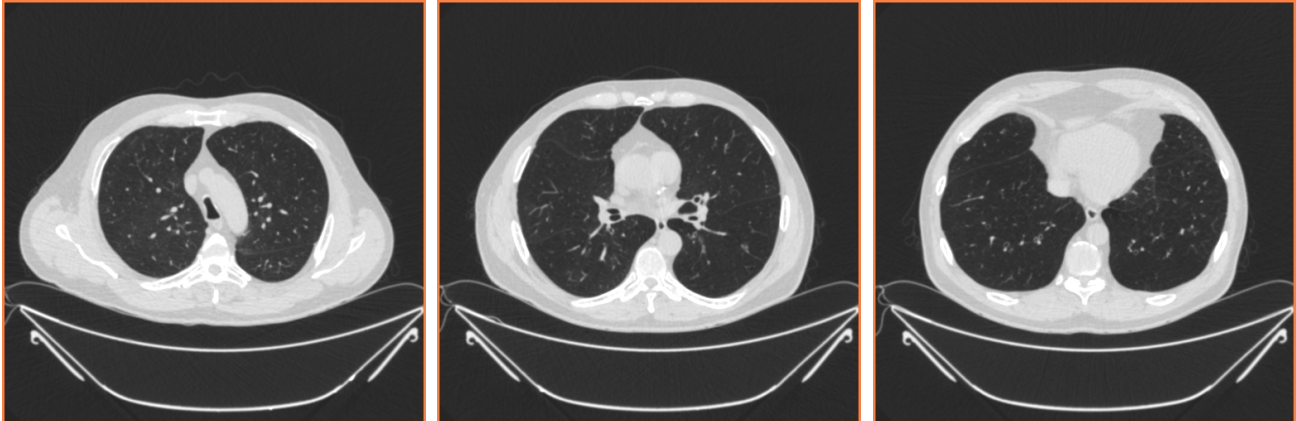
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 Right-Left-Ratio: 1.01055

Par.	Unit	Lung	Right	Left	RUL	RML	RUL+	RLL	LUL	LLi	LUL+	LLL
Vol.	[cm <sup>3</sup> ]	7605	3822	3782	1675	855	2530	1292	2078	77	2155	1627
Vol.E~	[cm <sup>3</sup> ]	1777	807	970	83	334	417	389	328	13	341	628
EI~	[%]	23	21	26	5	39	16	30	16	17	16	39
BI	[-]	6	6	6	3	6	6	7	6	7	6	6
ET1	[-]	16	16	17	5	21	16	15	11	8	11	20
ET2	[%]	33	36	31	48	39	41	31	37	75	39	27
ET3	[%]	22	22	22	4	28	23	18	12	6	12	27
MLD	[HU]	-866	-865	-868	-846	-889	-860	-873	-860	-834	-859	-880
MLD<-200	[HU]	-877	-875	-879	-857	-897	-871	-884	-871	-844	-870	-890
MLD<-500	[HU]	-901	-899	-903	-881	-918	-894	-908	-894	-882	-894	-915
P0th	[HU]	-1024	-1024	-1024	-1013	-1024	-1024	-1024	-1013	-1014	-1014	-1024
P5th	[HU]	-968	-967	-969	-948	-974	-964	-970	-960	-962	-960	-975
P10th	[HU]	-960	-959	-961	-940	-967	-955	-963	-953	-955	-953	-968
P15th	[HU]	-955	-953	-956	-934	-963	-949	-958	-948	-949	-948	-963
P20th	[HU]	-950	-948	-951	-929	-959	-943	-954	-943	-944	-943	-959
P25th	[HU]	-945	-943	-947	-923	-955	-937	-950	-939	-940	-939	-956
P30th	[HU]	-941	-938	-943	-918	-952	-932	-946	-934	-935	-934	-952
P35th	[HU]	-936	-933	-938	-913	-949	-927	-943	-929	-930	-929	-949
P40th	[HU]	-931	-928	-934	-908	-945	-921	-939	-924	-925	-924	-945
P45th	[HU]	-926	-923	-929	-903	-942	-916	-934	-918	-919	-918	-941
P50th	[HU]	-920	-917	-923	-898	-938	-910	-930	-912	-913	-912	-937
P55th	[HU]	-914	-910	-917	-892	-933	-904	-925	-906	-905	-906	-932
P60th	[HU]	-906	-903	-910	-885	-928	-897	-919	-899	-895	-898	-926
P65th	[HU]	-898	-895	-901	-878	-922	-889	-911	-890	-882	-890	-919
P70th	[HU]	-888	-885	-891	-869	-915	-880	-902	-881	-863	-880	-910
P75th	[HU]	-875	-873	-878	-857	-904	-868	-888	-869	-829	-868	-898
P80th	[HU]	-856	-855	-858	-838	-889	-851	-867	-851	-773	-849	-878
P85th	[HU]	-820	-820	-821	-800	-860	-817	-826	-816	-686	-813	-835
P90th	[HU]	-723	-726	-719	-700	-783	-727	-725	-721	-556	-713	-728

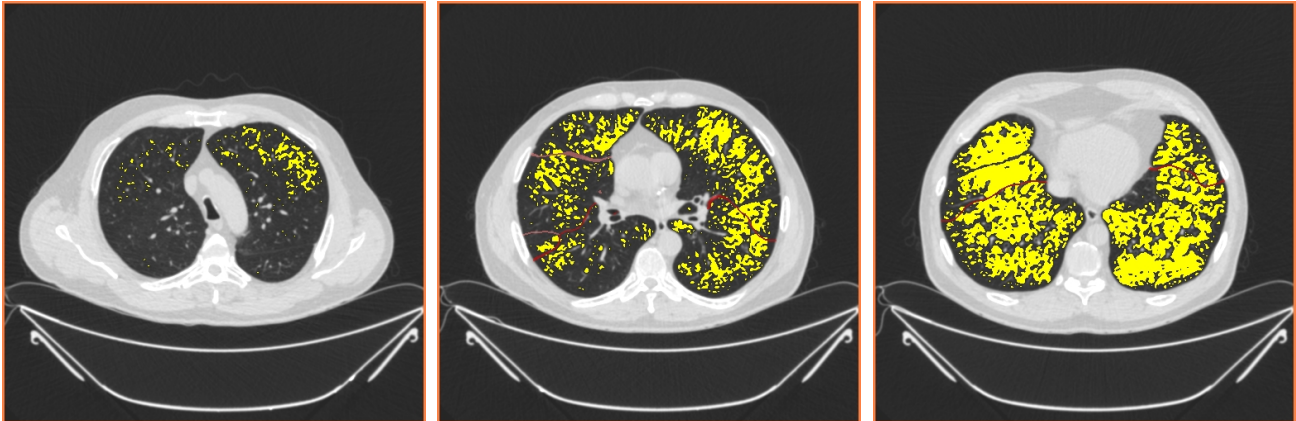
P95th	[HU]	-456	-461	-451	-437	-527	-464	-457	-452	-357	-446	-457
P100th	[HU]	789	789	511	789	618	789	509	481	11	481	511
Vol.L.R0	[cm <sup>3</sup> ]	1537	694	842	72	290	363	331	281	11	293	550
R0I	[%]	20	18	22	4	34	14	26	14	15	14	34
Vol.L.R1	[cm <sup>3</sup> ]	4400	2126	2273	651	622	1273	853	1086	40	1127	1147
R1I	[%]	58	56	60	39	73	50	66	52	52	52	70
Vol.L.R2	[cm <sup>3</sup> ]	1702	771	931	88	316	404	366	323	13	336	595
R2I	[%]	22	20	25	5	37	16	28	16	17	16	37
Vol.L.R3	[cm <sup>3</sup> ]	6101	3053	3048	1265	731	1996	1057	1640	55	1694	1353
R3I	[%]	80	80	81	76	85	79	82	79	71	79	83
Vol.V	[cm <sup>3</sup> ]	61	30	31	17	2	20	10	18	2	20	11

**Images/Renderings**

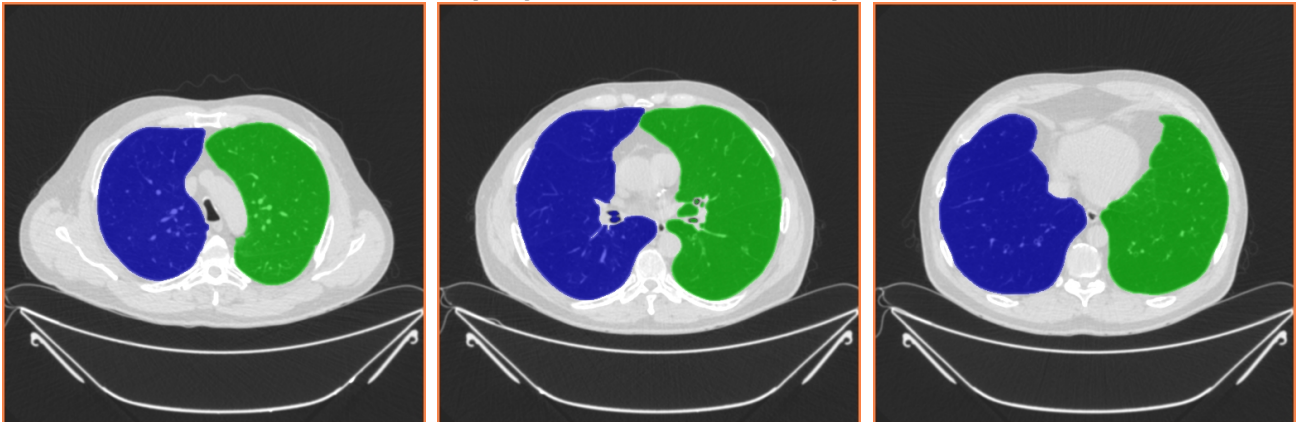
Lung axial



Emphysema axial



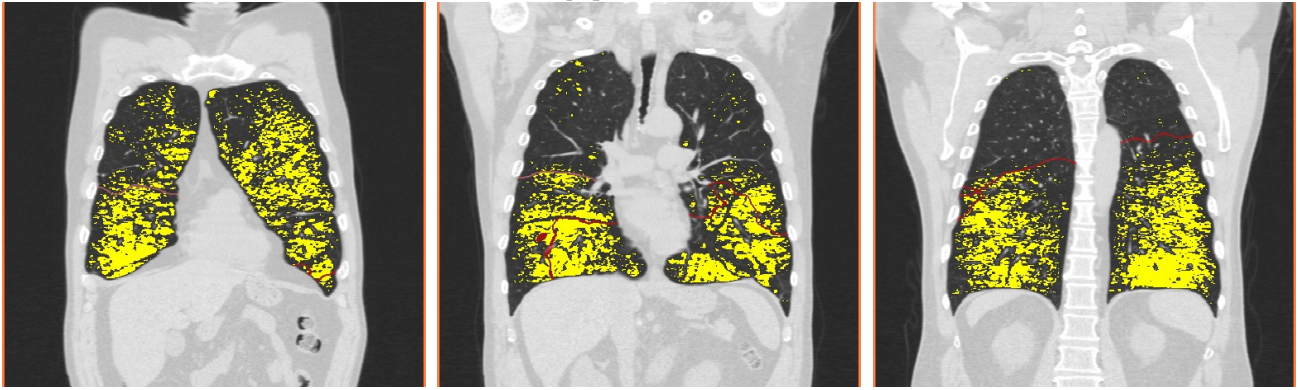
Lung segmentation axial left/right



Lung coronar



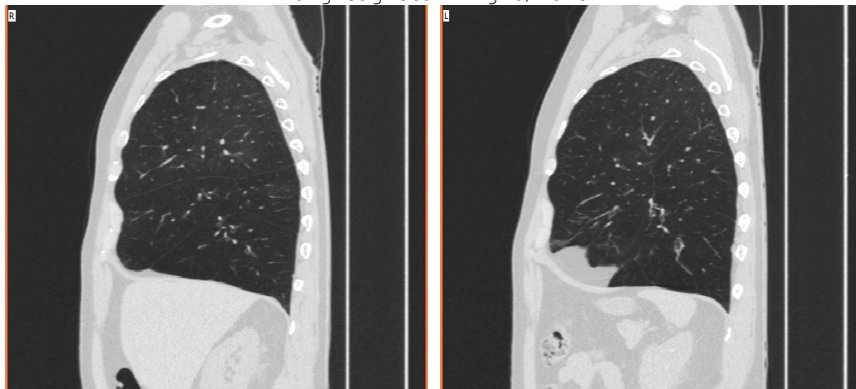
Emphysema coronar



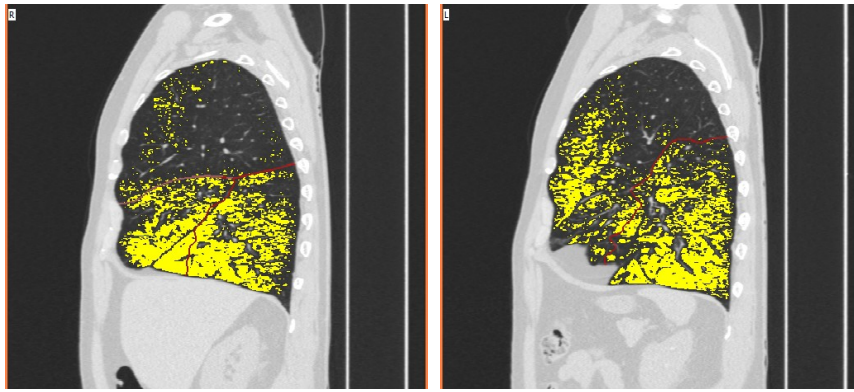
Lobe segmentation coronar



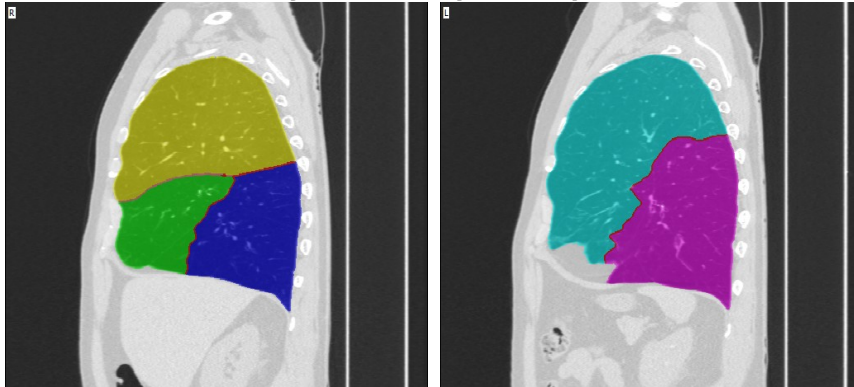
Lung sagittal right/left



Emphysema segmentation sagittal right/left



Lobe segmentation sagittal right/left



Histograms lung/left lung/right lung

