2023 ACADEMY

THE AMAZING CASE RACE CASE STUDY 15

Management of care for patients with NSCLC

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LEARNING GOALS

Goal 1: Shared decision-making in lung cancer management.

IASLC

INTERNATIONAL ASSOCIATION FOR THE STUDY OF LUNG CANCER

BACKGROUND

86-year-old male, former smoker, with a history of T2N2bM0 SCC of the oropharynx s/p resection and adjuvant chemoradiation in 2007 with a left upper lobe biopsy proven poorlydifferentiated SCC, measuring approximately 3.7cm.

Goal 2: Radiotherapy planning.

Goal 3: Brachial Plexus as an organ-at-risk.

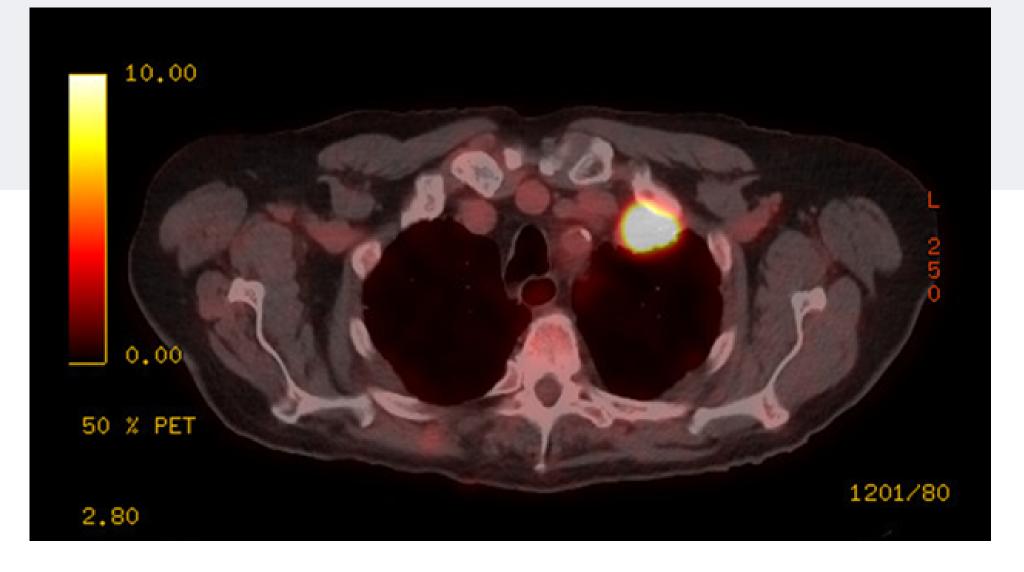
PET/CT and MRI Brain with IV contrast were otherwise negative.

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TESTING



PULMONARY FUNCTION TESTS

TLC (Pleth) (L)

-- LUNG VOLUMES --

PREDICTED	CONTROL	POST-DILATOR**
Pred LLN	Actual %Pred	Actual % Chng
6.42 5.14	5.59 87	

SVC (L)	3.44	2.88	3.41	99			
RV (Pleth) (L)	2.65	2.12	2.18	82			
RV/TLC (Pleth) (%)	40.63	32.51	38.96	95			
SPIROMETRY							
FVC (L)	3.44	2.88	3.38	98	3.41	+0	
FEV1 (L)	2.53	2.11	2.68	105	2.78	+3	
FEV1/FVC (%)	74.32	62.06	79.24	106	81.59	+2	
FEF 25-75% (L/sec)	1.74	0.96	*2.59	*148	*3.12	+20	
FEF Max (L/sec)	5.97	4.48	7.16	119	7.36	+2	
MVV (L/min)	103	86	88	85			
DIFFUSION							
DLCOunc (ml/min/mmHg)	19.35	15.48	20.21	104			
DLCOcor (ml/min/mmHg)	19.35	15.48	20.38	105			
VA (L)	6.42	5.36	*5.14	*80			
- AIRWAYS RESISTANCE	_						
Raw (cmH2O/L/s)	1.45	1.21	1.22	84			
Gaw (L/s/cmH2O)	1.03	0.86	*0.82	*79			
sRaw (cmH2O*s)	< 4.76	3.97	4.93				
sGaw (1/cmH2O*s)	0.20	0.17	0.20	100			

-- OXIMETRY --

	Rest	Exercise
SaO2 (%)	99	92
Pulse	57	78



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Want to learn more about this case?

VOTE FOR CASE 15

WHOLE BODY PET SCAN

Revealed mild uptake of the right upper lobe nodule (max SUV1.5) and subtle uptake of the left upper lobe nodule (max SUV 0.8). No abnormal FDG update was observed in other multifocal subsolid nodules in both lungs or mediastinal lymph notes (**Figures 2a-b**).



Figure 2a

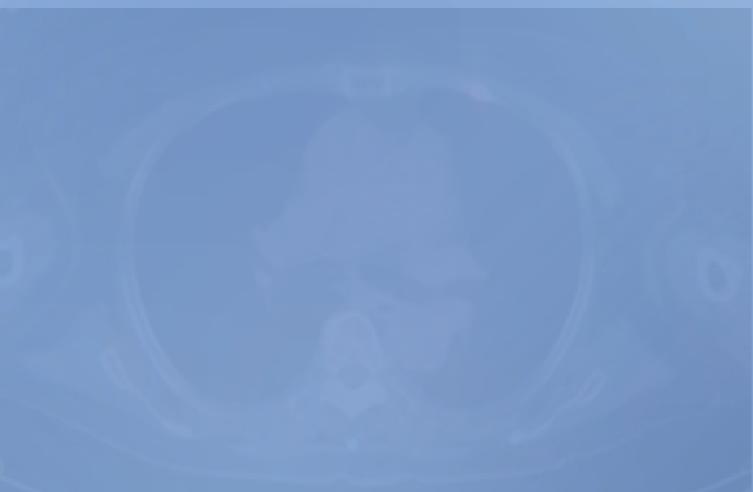


Figure 2b