C. A. Patient Summary Patient Study Based on Lesion Graph

Lesion Count According to Classification

Time Layer	complex	disappeared	lone	merged	new	persistent	split
0	0	0	0	0	16	0	0
1	0	5	0	0	1	11	0
2	0	1	0	0	3	11	0
3	0	1	0	0	0	13	0
4	0	5	0	0	1	8	0
5	0	1	0	0	3	7	1
6	0	2	2	1	1	8	0
7	0	5	0	0	0	6	1
8	0	2	1	0	0	7	0

Tracking the Changes in the Total Volume of the Tumors From One Scan to the Previous One

Time Stamp	Total Volume [cm³]	Volume Difference Percentage	Volume Difference [cm³]
0	16.9	-	-
1	1.46	-91%	-15.44
2	1.64	+12%	+0.17
3	3.34	+104%	+1.7
4	12.96	+288%	+9.62
5	15.79	+22%	+2.83
6	13.21	-16%	-2.58
7	12.1	-8%	-1.11
8	8.61	-29%	-3.49

Individual Lesion Changes

New Lesions

Lesion 9 appeared for the first time in the last scan.

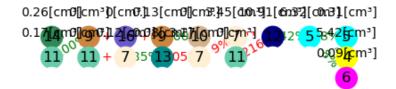
Disappeared Lesions

Over time, 22 lesions disappeared.

- 5 lesions were last identified in 05.11.17.
- 1 lesion was last identified in 10.01.18.
- 1 lesion was last identified in 22.04.18.
- 5 lesions were last identified in 13.12.18.
- 1 lesion was last identified in 31.03.19.
- 2 lesions were last identified in 28.04.19.
- 5 lesions were last identified in 14.01.20.
- 2 lesions were last identified in 07.04.20.

Lesions Appearing in Multiple Scans

• The History of Lesions 5, 4, 6



05.11.1L07.01.2L28.04.1L38.12.3LB.03.2L89.04.1L49.01.0270.04.3210.05.20

Lesion volume has decreased by 95% from previous scan to current scan. Volume shows both increases and decreases over time from first scan to last scan.

Classification of connected component: complex.

• The History of Lesion 2

05.11.1107.01.2128.04.1128.12.3128.03.249.04.1149.01.0270.04.3210.05.20

Lesion volume has decreased by 184% from previous scan to current scan. Volume shows both increases and decreases over time from first scan to last scan.

Classification of connected component: split.

• The History of Lesion 7



Lesion volume has decreased by 64% from previous scan to current scan. Volume shows both increases and decreases over time from first scan to last scan.

Classification of connected component: linear.

• The History of Lesion 3

0.16[c0n12]c0n23[c5n15[clm9]4[cm3]

5:796.38117145293

05.11.1107.01.2128.04.1128.12.3128.03.249.04.1149.01.0270.04.3210.05.20

Lesion volume has decreased by 752% from previous scan to current scan. Volume shows both increases and decreases over time from first scan to last scan.

Classification of connected component: linear.

• The History of Lesion 8

0.17[cr0x1][cr0x1]5[cm3]



05.11.1107.012028.04.1138.12.3138.03.249.04.1149.01.0270.04.3210.05.20

Lesion volume has decreased by 54% from previous scan to current scan. Volume shows both increases and decreases over time from first scan to last scan.

Classification of connected component: linear.