G. B. 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	7	0	0
1	0	0	1	0	4	7	0
2	0	0	10	0	0	11	0

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

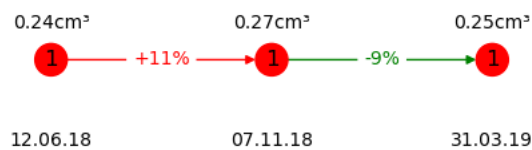| Time Stamp	Total Volume [cm³]	Volume Difference Percentage	Volume Difference [cm³]
0	4.82	-	-
1	6.84	+42%	+2.02
2	8.47	+24%	+1.62

Individual Lesion Changes

New Lesions

Lesions 2, 4, 5, 6, 7, 8, 9, 10, 11, 17 appeared for the first time in the last scan.

Disappeared Lesions

Over time, one lesion disappeared.
It was last identified in 07.11.18.

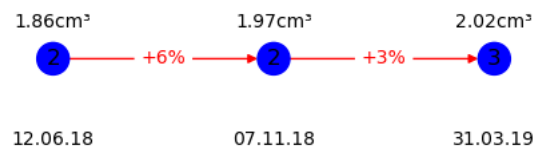## Lesions Appearing in Multiple Scans

• The History of Lesion 1

Lesion volume has decreased by 9% from previous scan to current scan. Volume monotonically increased over time by 1% from first scan to last scan.
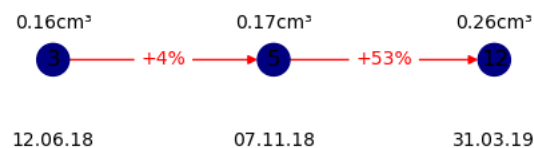
Classification of connected component: linear.

• The History of Lesion 3

1.86cm³   1.97cm³   2.02cm³

2 ——— +6% ———▶ 2 ——— +3% ———▶ 3

12.06.18   07.11.18   31.03.19

Lesion volume has decreased by 3429% from previous scan to current scan. Volume monotonically decreased over time by 1164% from first scan to last scan.

Classification of connected component: linear.

• **The History of Lesion 12**

0.16cm³   0.17cm³   0.26cm³

3 ——— +4% ———▶ 5 ——— +53% ———▶ 12

12.06.18   07.11.18   31.03.19

Lesion volume has decreased by 215% from previous scan to current scan. Volume monotonically increased over time by 215% from first scan to last scan.
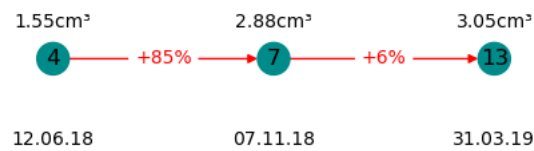
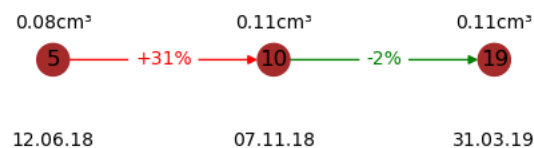Classification of connected component: linear.

• **The History of Lesion 13**

1.55cm³		2.88cm³		3.05cm³
(4)	+85% →	(7)	+6% →	(13)
12.06.18		07.11.18		31.03.19

No volume data available for the lesion from previous scan. Volume monotonically increased over time by 0% from first scan to last scan.

Classification of connected component: linear.

• The History of Lesion 19

0.08cm³		0.11cm³		0.11cm³
(5)	+31% →	(10)	-2% →	(19)
12.06.18		07.11.18		31.03.19

No volume data available for the lesion from previous scan. Volume monotonically increased over time by 0% from first scan to last scan.

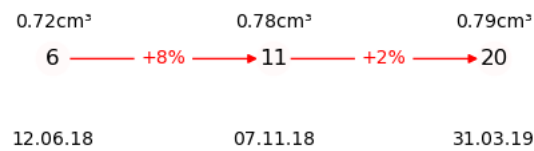Classification of connected component: linear.

• The History of Lesion 20

0.72cm³   0.78cm³   0.79cm³

6 ——— +8% ———► 11 ——— +2% ———► 20

12.06.18   07.11.18   31.03.19

No volume data available for the lesion from previous scan. Volume monotonically increased over time by 0% from first scan to last scan.

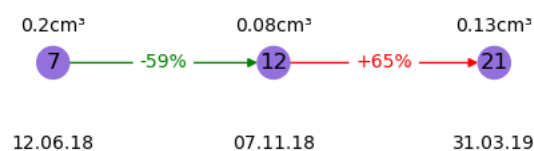Classification of connected component: linear.

• **The History of Lesion 21**

0.2cm³   0.08cm³   0.13cm³

7 ——— -59% ———► 12 ——— +65% ———► 21

12.06.18   07.11.18   31.03.19

No volume data available for the lesion from previous scan. Volume monotonically increased over time by 0% from first scan to last scan.

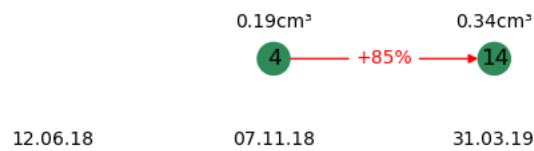Classification of connected component: linear.

• **The History of Lesion 14**

0.19cm³   0.34cm³

4 ——— +85% ———► 14

12.06.18   07.11.18   31.03.19

No volume data available for the lesion from previous scan. Volume monotonically increased over time by 0% from first scan to last scan.

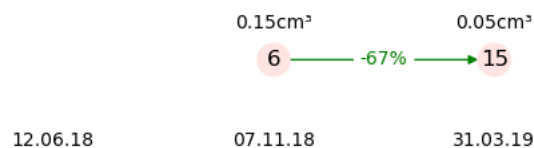Classification of connected component: linear.

• The History of Lesion 15

0.15cm³   0.05cm³

6 ——— -67% ———► 15

12.06.18   07.11.18   31.03.19

No volume data available for the lesion from previous scan. Volume monotonically increased over time by 0% from first scan to last scan.
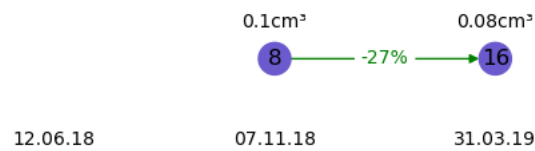
Classification of connected component: linear.

• The History of Lesion 16

0.1cm³   0.08cm³

8 ——— -27% ———➤ 16

12.06.18   07.11.18   31.03.19

No volume data available for the lesion from previous scan. Volume monotonically increased over time by 0% from first scan to last scan.

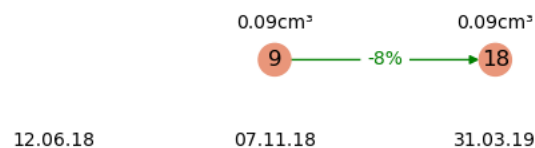Classification of connected component: linear.

• **The History of Lesion 18**

0.09cm³   0.09cm³

9 ——— -8% ———➤ 18

12.06.18   07.11.18   31.03.19

No volume data available for the lesion from previous scan. Volume monotonically increased over time by 0% from first scan to last scan.

Classification of connected component: linear.