T. N. 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	1	0	5	0	0
1	0	0	0	0	9	5	0
2	0	0	3	1	0	12	0

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

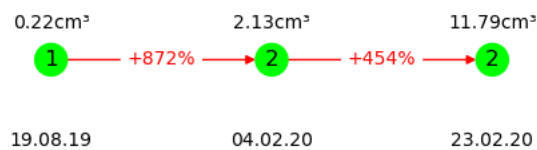| Time Stamp	Total Volume [cm³]	Volume Difference Percentage	Volume Difference [cm³]
0	3.58	-	-
1	25.45	+611%	+21.87
2	39.42	+55%	+13.97

Individual Lesion Changes

New Lesions
Lesions 8, 10, 14 appeared for the first time in the last scan.

Disappeared Lesions
Over time, one lesion disappeared.
It was last identified in 19.08.19.
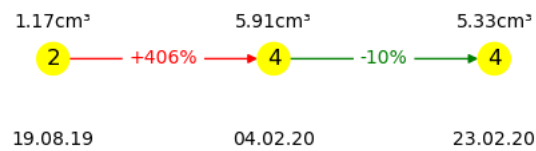
Lesions Appearing in Multiple Scans
• The History of Lesion 2

Lesion volume has decreased by 454% from previous scan to current scan. Volume monotonically increased over time by 911% from first scan to last scan.

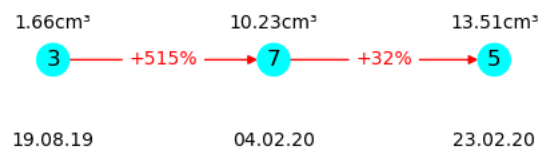Classification of connected component: linear.

• The History of Lesion 4

1.17cm³		5.91cm³		5.33cm³
2	+406%	4	-10%	4
19.08.19		04.02.20		23.02.20

Lesion volume has decreased by 10% from previous scan to current scan. Volume monotonically increased over time by 1560% from first scan to last scan.
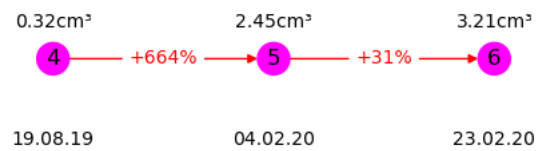
Classification of connected component: linear.

• The History of Lesion 5

1.66cm³		10.23cm³		13.51cm³
3	+515%	7	+32%	5
19.08.19		04.02.20		23.02.20

Lesion volume has decreased by 451% from previous scan to current scan. Volume monotonically increased over time by 16025% from first scan to last scan.

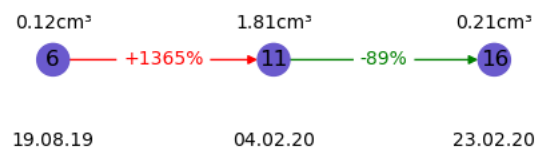Classification of connected component: linear.

• The History of Lesion 6

0.32cm³   2.45cm³   3.21cm³

4 —— +664% ——▶ 5 —— +31% ——▶ 6

19.08.19   04.02.20   23.02.20

Lesion volume has decreased by 853% from previous scan to current scan. Volume monotonically increased over time by 2498% from first scan to last scan.

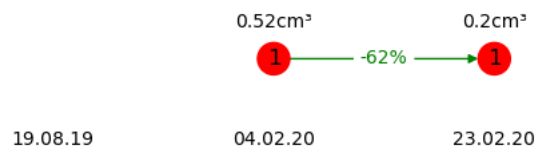Classification of connected component: linear.

• The History of Lesion 16

0.12cm³   1.81cm³   0.21cm³

6 —— +1365% ——▶ 11 —— -89% ——▶ 16

19.08.19   04.02.20   23.02.20

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

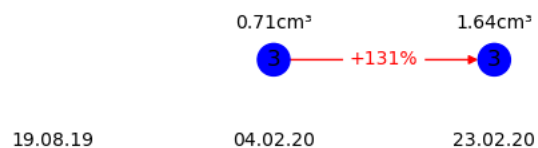Classification of connected component: linear.

• The History of Lesion 1

0.52cm³   0.2cm³

1 —— -62% ——→ 1

19.08.19   04.02.20   23.02.20

Lesion volume has decreased by 62% from previous scan to current scan. Volume monotonically increased over time by 9% from first scan to last scan.

Classification of connected component: linear.

• **The History of Lesion 3**

0.71cm³   1.64cm³

3 —— +131% ——→ 3

19.08.19   04.02.20   23.02.20

Lesion volume has decreased by 131% from previous scan to current scan. Volume monotonically decreased over time by 2% from first scan to last scan.
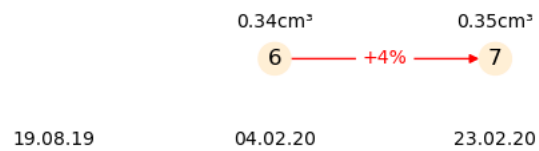
Classification of connected component: linear.

• **The History of Lesion 7**

0.34cm³   0.35cm³

6 ——— +4% ——→ 7

19.08.19   04.02.20   23.02.20

Lesion volume has decreased by 97% from previous scan to current scan. Volume monotonically increased over time by 97% from first scan to last scan.

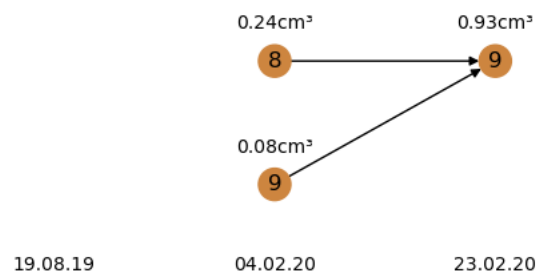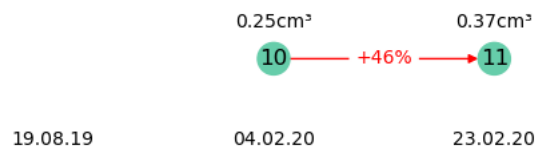Classification of connected component: linear.

• The History of Lesion 9

0.24cm³   0.93cm³

8 ————————→ 9

0.08cm³

9

19.08.19   04.02.20   23.02.20

Lesion volume has decreased by 1043% from previous scan to current scan. Volume monotonically increased over time by 1043% from first scan to last scan.

Classification of connected component: merge.

• The History of Lesion 11

0.25cm³   0.37cm³

10 —— +46% ——→ 11

19.08.19   04.02.20   23.02.20

Lesion volume has decreased by 80% from previous scan to current scan. Volume monotonically increased over time by 80% from first scan to last scan.
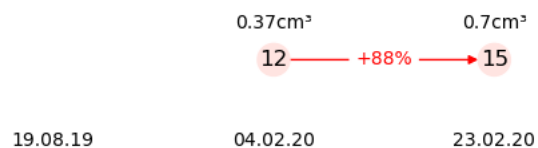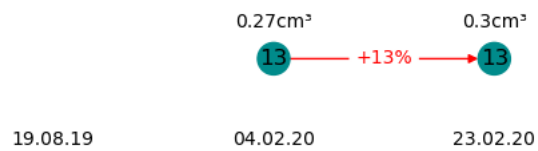
Classification of connected component: linear.

• The History of Lesion 15

0.37cm³   0.7cm³

12 —— +88% ——→ 15

19.08.19   04.02.20   23.02.20

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

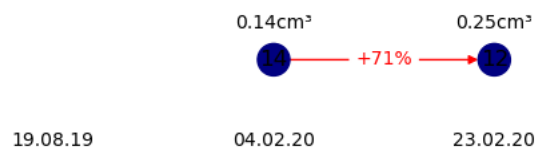Classification of connected component: linear.

• The History of Lesion 13

0.27cm³   0.3cm³

13 —— +13% ——► 13

19.08.19   04.02.20   23.02.20

Lesion volume has decreased by 13% from previous scan to current scan. Volume monotonically increased over time by 13% from first scan to last scan.

Classification of connected component: linear.

• **The History of Lesion 12**

0.14cm³   0.25cm³

14 —— +71% ——► 12

19.08.19   04.02.20   23.02.20

Lesion volume has decreased by 34% from previous scan to current scan. Volume monotonically increased over time by 34% from first scan to last scan.

Classification of connected component: linear.