

## E. 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	0	0	6	0	0
1	0	2	5	0	5	4	0
2	0	0	1	1	9	7	0
3	0	0	2	3	0	9	0

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

One

Time Stamp	Total Volume [cm <sup>3</sup> ]	Volume Difference Percentage	Volume Difference [cm <sup>3</sup> ]
0	581.66	-	-
1	500.91	-14%	-80.75
2	592.55	+18%	+91.64
3	440.75	-26%	-151.79

# Individual Lesion Changes

## New Lesions

Lesions 1, 9 appeared for the first time in the last scan.

## Disappeared Lesions

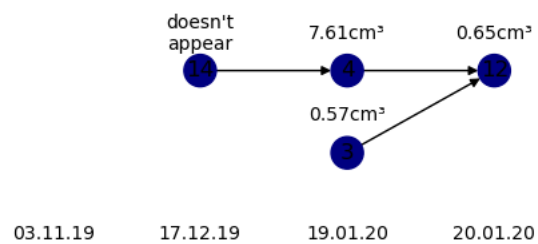
Over time, 8 lesions disappeared.

7 lesions were last identified in 17.12.19.

1 lesion was last identified in 19.01.20.

## Lesions Appearing in Multiple Scans

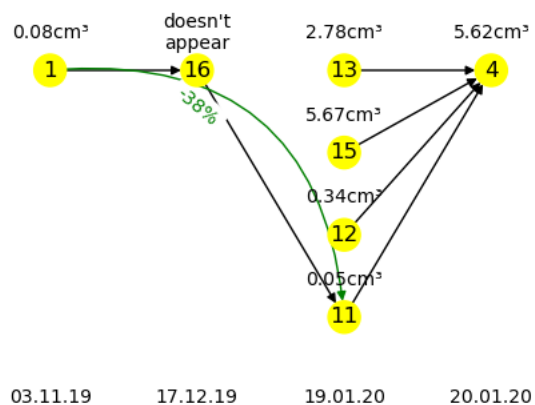
### • The History of Lesion 12



Lesion volume has decreased by 91% from previous scan to current scan. Volume monotonically decreased over time by 35% from first scan to last scan.

Classification of connected component: merge.

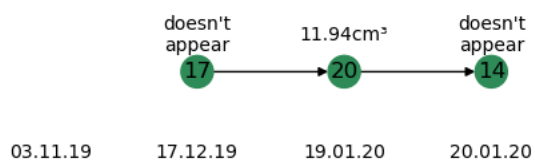
### • The History of Lesion 4



Lesion volume has decreased by 26% from previous scan to current scan. Volume shows both increases and decreases over time from first scan to last scan.

Classification of connected component: merge.

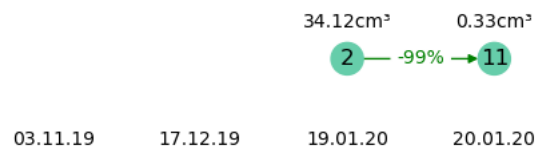
#### • The History of Lesion 14



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.

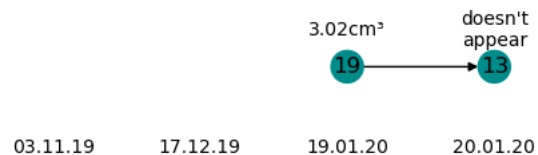
#### • The History of Lesion 11



Lesion volume has decreased by 512% from previous scan to current scan. Volume monotonically decreased over time by 100% from first scan to last scan.

Classification of connected component: linear.

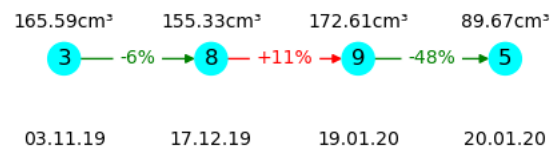
#### • The History of Lesion 13



Lesion volume has decreased by 359% from previous scan to current scan. Volume monotonically increased over time by 359% from first scan to last scan.

Classification of connected component: linear.

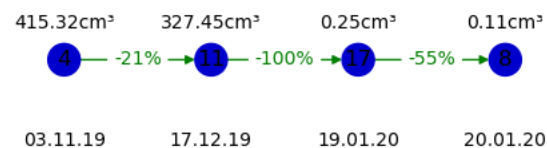
#### • The History of Lesion 5



Lesion volume has decreased by 1167% 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.

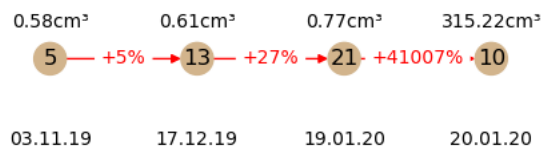
#### • The History of Lesion 8



Lesion volume has decreased by 171% from previous scan to current scan. Volume monotonically decreased over time by 100% from first scan to last scan.

Classification of connected component: linear.

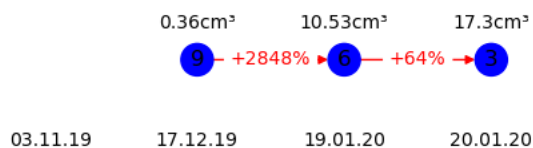
#### • The History of Lesion 10



Lesion volume has decreased by 368511% from previous scan to current scan. Volume monotonically decreased over time by 23450% from first scan to last scan.

Classification of connected component: linear.

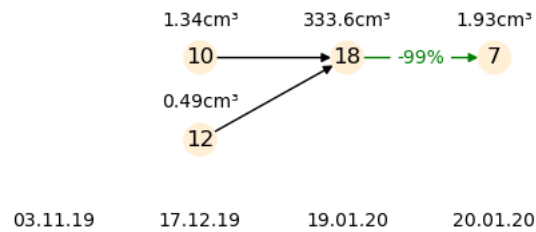
#### • The History of Lesion 3



Lesion volume has decreased by 2917% from previous scan to current scan. Volume monotonically decreased over time by 90% from first scan to last scan.

Classification of connected component: linear.

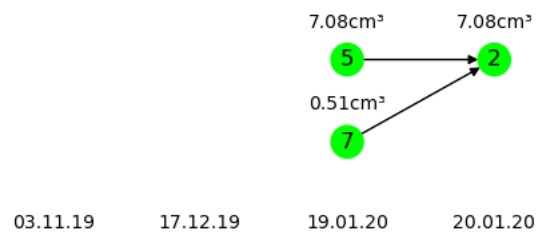
#### • The History of Lesion 7



Lesion volume has decreased by 277% from previous scan to current scan. Volume monotonically increased over time by 1452% from first scan to last scan.

Classification of connected component: merge.

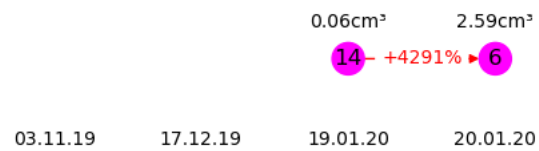
#### • The History of Lesion 2



Lesion volume has decreased by 79% from previous scan to current scan. Volume monotonically increased over time by 6746% from first scan to last scan.

Classification of connected component: merge.

#### • The History of Lesion 6



Lesion volume has decreased by 75% from previous scan to current scan. Volume monotonically increased over time by 1834% from first scan to last scan.

Classification of connected component: linear.