

## B. B. S. 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	6	5	0
2	0	3	0	0	1	8	0
3	0	0	2	1	0	7	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	0.4	-	-
1	1.32	+233%	+0.93
2	1.11	-16%	-0.21
3	0.95	-14%	-0.16

# Individual Lesion Changes

## New Lesions

Lesions 5, 8 appeared for the first time in the last scan.

## Disappeared Lesions

Over time, 3 lesions disappeared.

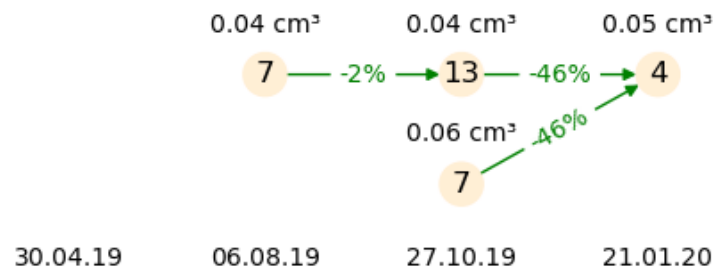
0 lesions were last identified in 30.04.19.

3 lesions were last identified in 06.08.19.

0 lesions were last identified in 27.10.19.

## Lesions Appearing in Multiple Scans

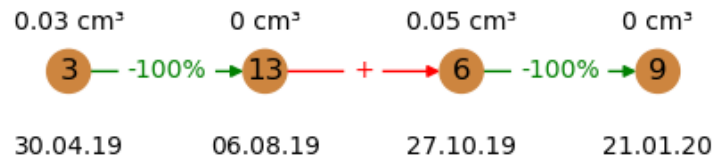
### • The History of Lesion 4



Lesion volume has decreased by 31% 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.

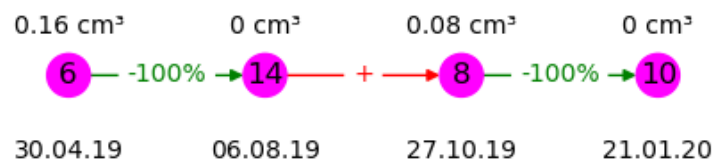
### • The History of Lesion 9



Lesion volume has decreased by 182% from previous scan to current scan. Volume monotonically increased over time by 182% from first scan to last scan.

Classification of connected component: linear.

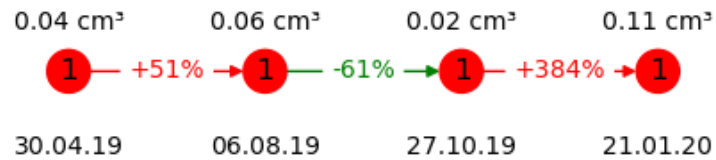
#### • The History of Lesion 10



Lesion volume has decreased by 49% from previous scan to current scan. Volume monotonically increased over time by 49% from first scan to last scan.

Classification of connected component: linear.

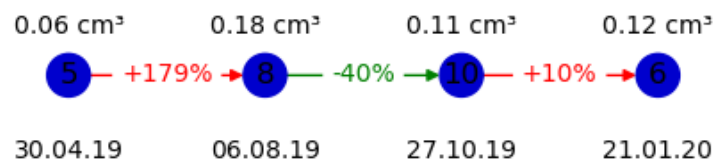
#### • The History of Lesion 1



Lesion volume has decreased by 384% 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.

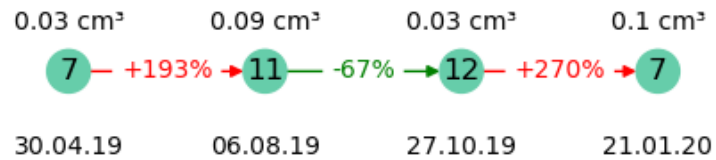
#### • The History of Lesion 6



Lesion volume has decreased by 147% from previous scan to current scan. Volume monotonically decreased over time by 26% from first scan to last scan.

Classification of connected component: linear.

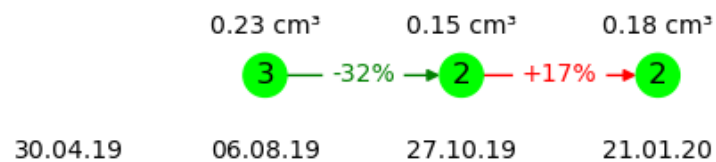
#### • The History of Lesion 7



Lesion volume has decreased by 85% from previous scan to current scan. Volume monotonically increased over time by 253% from first scan to last scan.

Classification of connected component: linear.

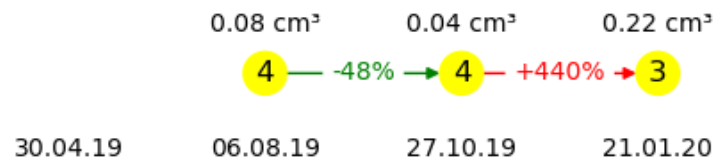
#### • The History of Lesion 2



Lesion volume has decreased by 17% 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



Lesion volume has decreased by 0% 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.