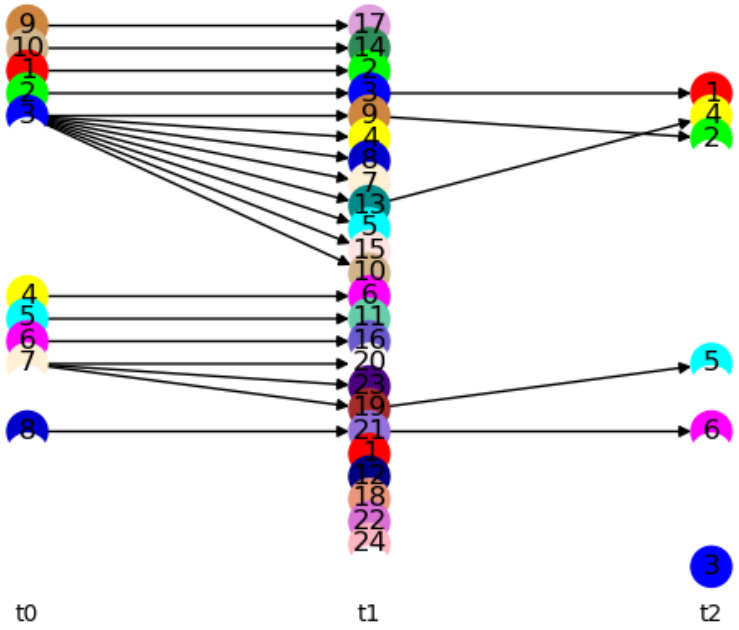
B. T. Patient Summary

Patient Study Based on Lesion Graph



Di Veroli B., Joskowicz L. A Graph Theoretic Approach for Analysis of Lesion Changes and Lesions Detection Review in Longitudinal Ontological Imaging, CASMIP Hebrew University, 2023

Lesion Count According to Classification

Time Layer	complex	disappeared	lone	merged	new	persistent	split
0	0	0	0	0	8	0	2
1	0	0	5	0	0	19	0
2	0	19	1	0	0	5	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	51.14	-	-
1	67.0	+31%	+15.86
2	1.09	-98%	-65.9

Individual Lesion Changes

New Lesions

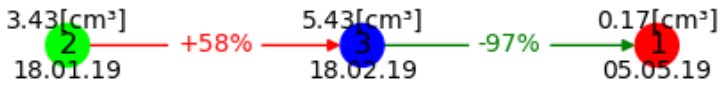
Lesion 3 appeared for the first time in the last scan.

Disappeared Lesions

Over time, 19 lesions disappeared.
They were last identified in 18.02.19.

Lesions Appearing in Multiple Scans

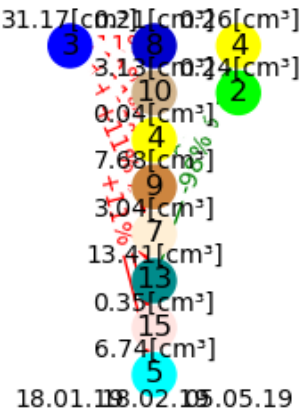
• The History of Lesion 1



Lesion volume has decreased by 327% from previous scan to current scan. Volume consistently decreased over time by 60% from first scan to last scan.

Classification of connected component: linear.

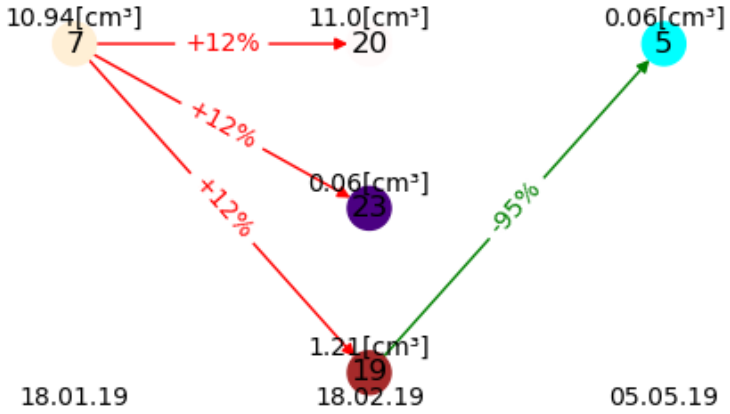
• The History of Lesions 4, 2



Lesion volume has decreased by 624% from previous scan to current scan. Volume consistently decreased over time by 78% from first scan to last scan.

Classification of connected component: split.

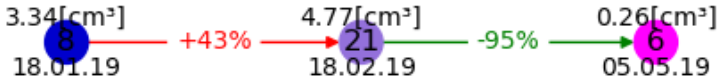
• The History of Lesion 5



Lesion volume has decreased by 99% from previous scan to current scan. Volume consistently increased over time by 90% from first scan to last scan.

Classification of connected component: split.

• The History of Lesion 6



Lesion volume has decreased by 81% from previous scan to current scan. Volume consistently increased over time by 498% from first scan to last scan.

Classification of connected component: linear.