# S. 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 | 2 | 0 | 4 | 0 | 0 |
| 1 | 0 | 1 | 1 | 0 | 1 | 3 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 3 | 1 |
| 4 | 0 | 0 | 0 | 0 | 1 | 5 | 0 |
| 5 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 7 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| 8 | 0 | 0 | 2 | 0 | 0 | 3 | 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 | 7.52 | - | - |
| 1 | 6.76 | -10% | -0.75 |
| 2 | 12.52 | +85% | +5.76 |
| 3 | 4.26 | -66% | -8.26 |
| 4 | 3.56 | -16% | -0.7 |
| 5 | 11.21 | +215% | +7.65 |
| 6 | 29.06 | +159% | +17.85 |
| 7 | 53.29 | +83% | +24.24 |
| 8 | 75.92 | +42% | +22.62 |

# Individual Lesion Changes

## New Lesions
Lesions 3, 4 appeared for the first time in the last scan.
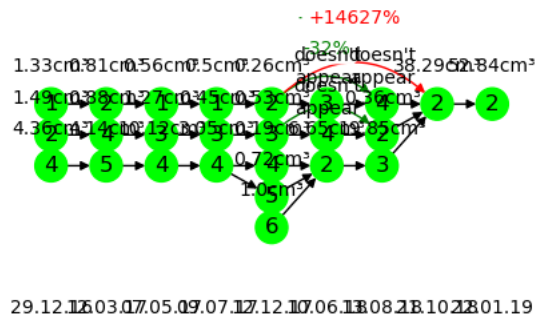
## Disappeared Lesions
Over time, 4 lesions disappeared.
2 lesions were last identified in 29.12.16.
2 lesions were last identified in 12.03.17.
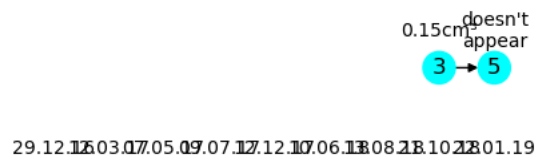
## Lesions Appearing in Multiple Scans
**• The History of Lesion 2**



Lesion volume has decreased by 38% from previous scan to current scan. Volume shows both increases and decreases over time from first scan to last scan.
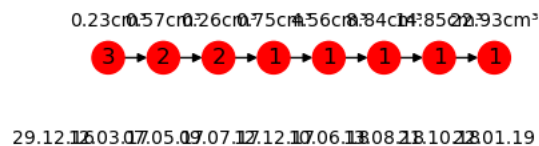
Classification of connected component: complex.

**• The History of Lesion 5**

0.15cm³   doesn't
           appear

3 → 5

29.12.16 03.07. 05.09. 07.12. 10.06.13 08.2.13 10.2.18 01.19

Lesion volume has decreased by 83% from previous scan to current scan. Volume monotonically increased over time by 1459% from first scan to last scan.

Classification of connected component: linear.

• **The History of Lesion 1**

0.23cm³ 0.57cm³ 0.26cm³ 0.75cm³ 1.56cm³ 0.84cm³ 14.85cm³ 22.93cm³

3 → 2 → 2 → 1 → 1 → 1 → 1 → 1

29.12.16 03.07. 05.09. 07.12. 10.06.13 08.2.13 10.2.18 01.19

Lesion volume has decreased by 54% 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.