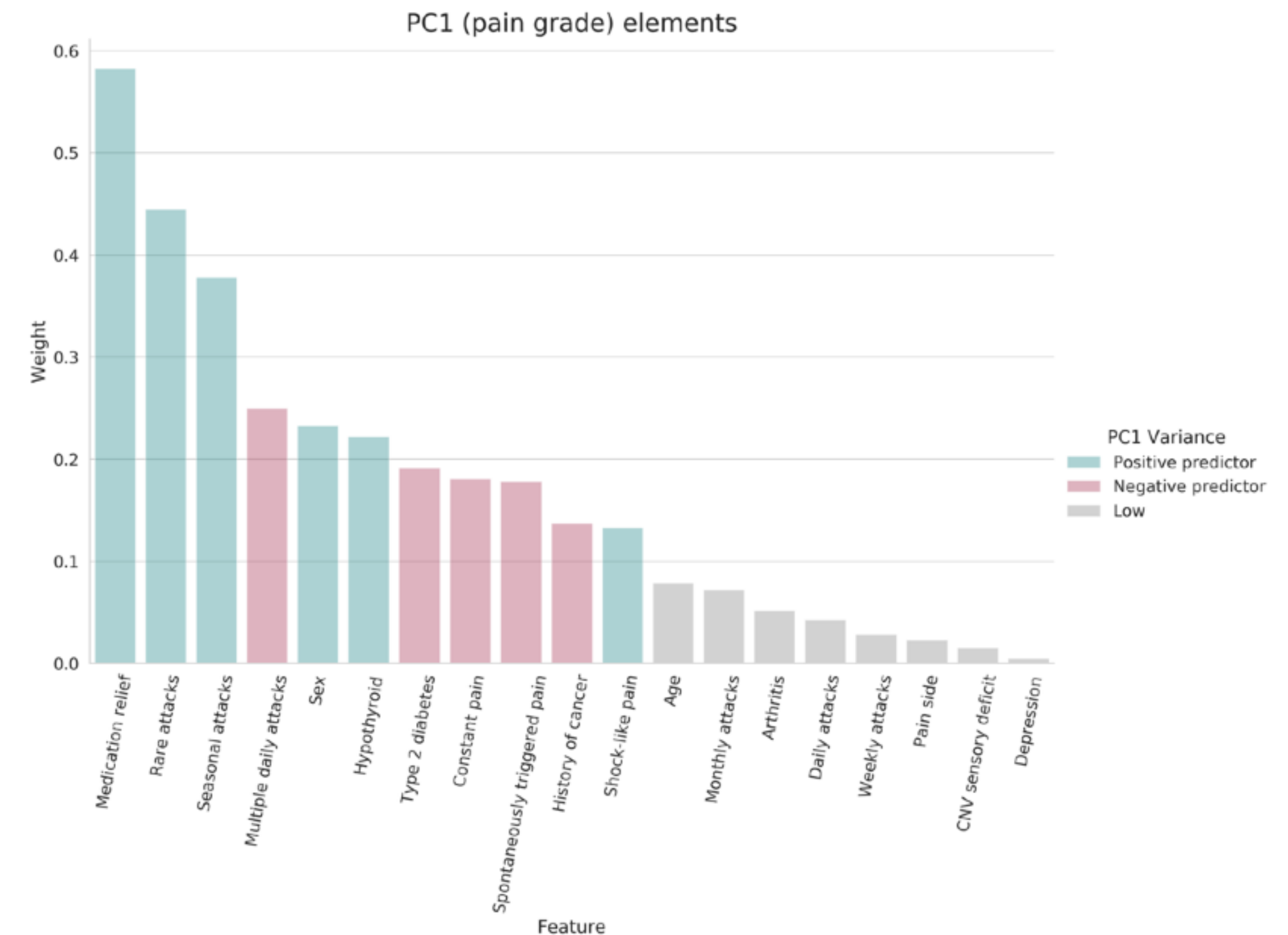
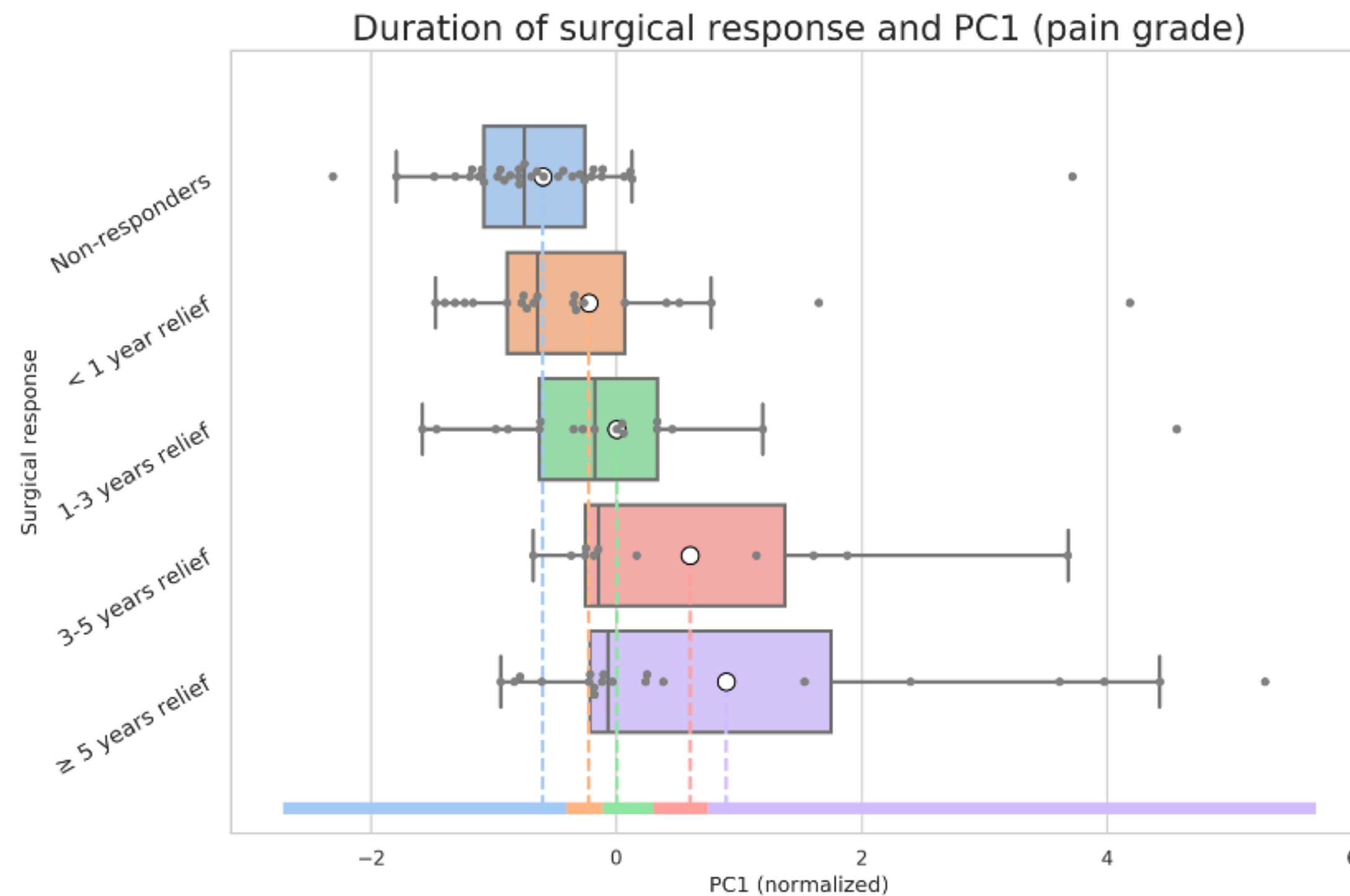


Results

Clinical data branch



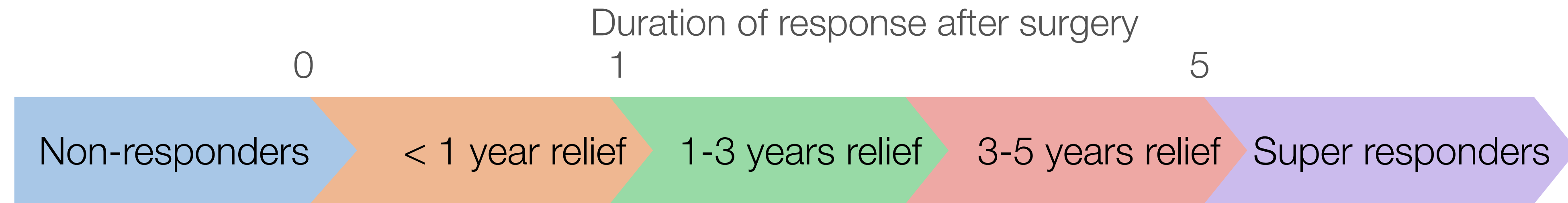
- 15 PCs to explain 95% of variance in data.
- PC1 vs Duration of response $r = 0.48$ [0.27 – 0.58] (p-corrected = 0.00004)

- PC1 is mainly defined by TN-related parameters
- The frequency of pain episodes, degree of medication relief, the character of pain as well as clinical history are predictive of the duration of surgical response



Results

Supervised ML tasks (One vs. Rest)



Responders vs. Non-responders

- Average accuracy - 94%
- Non-responders recall - 0.97
- Responders recall - 0.88

<1 year relief vs. rest

- Average accuracy - 86%
- <1 year recall - 0.7
- Rest recall - 0.95

1-3 years relief vs. rest

- Average accuracy - 91%
- 1-3 years recall - 0.75
- Rest recall - 0.97

3-5 years relief vs. rest

- Average accuracy - 93%
- 1-3 years recall - 0.78
- Rest recall - 0.95

≥5 years relief vs. rest

- Average accuracy - 87%
- ≥5 years. recall - 0.8
- Rest recall - 0.9

Classes defined by duration of surgical response are distinguishable

