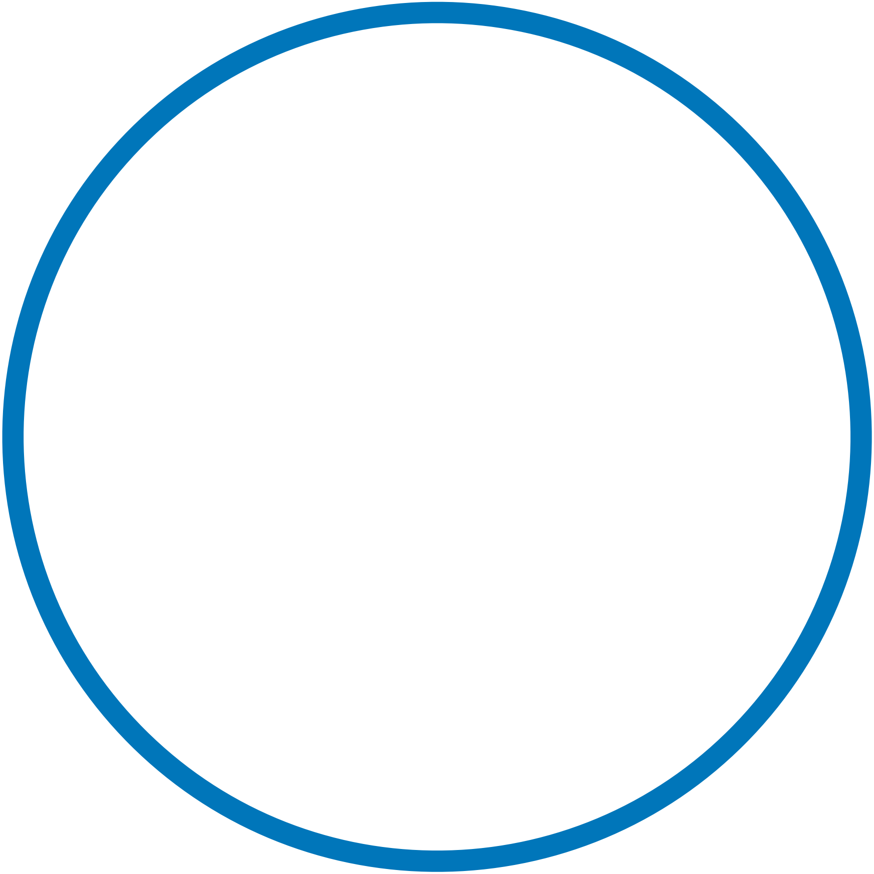
DVH Analytics

SQL Database Design

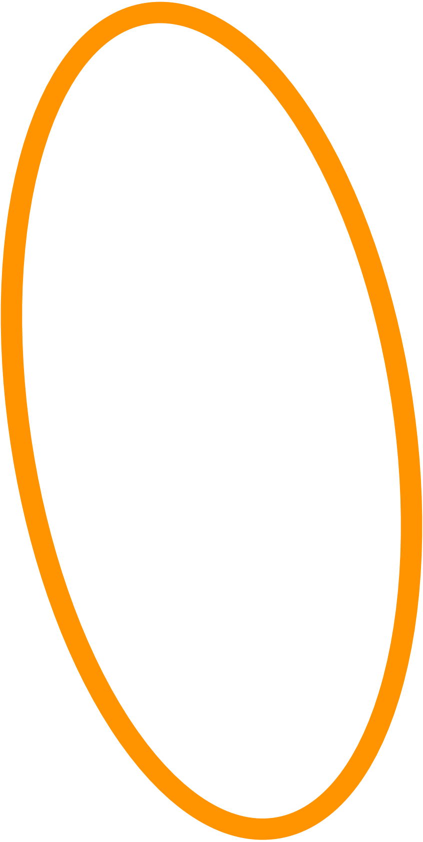
PTV Distance



- Records a sample of the distribution of PTV-OAR Distances

- Using SciPy, distances between all PTV-OAR point pairs are calculated in 3D.

- The min, mean, median, and max of these numbers are recorded in the database.



PTV

OAR

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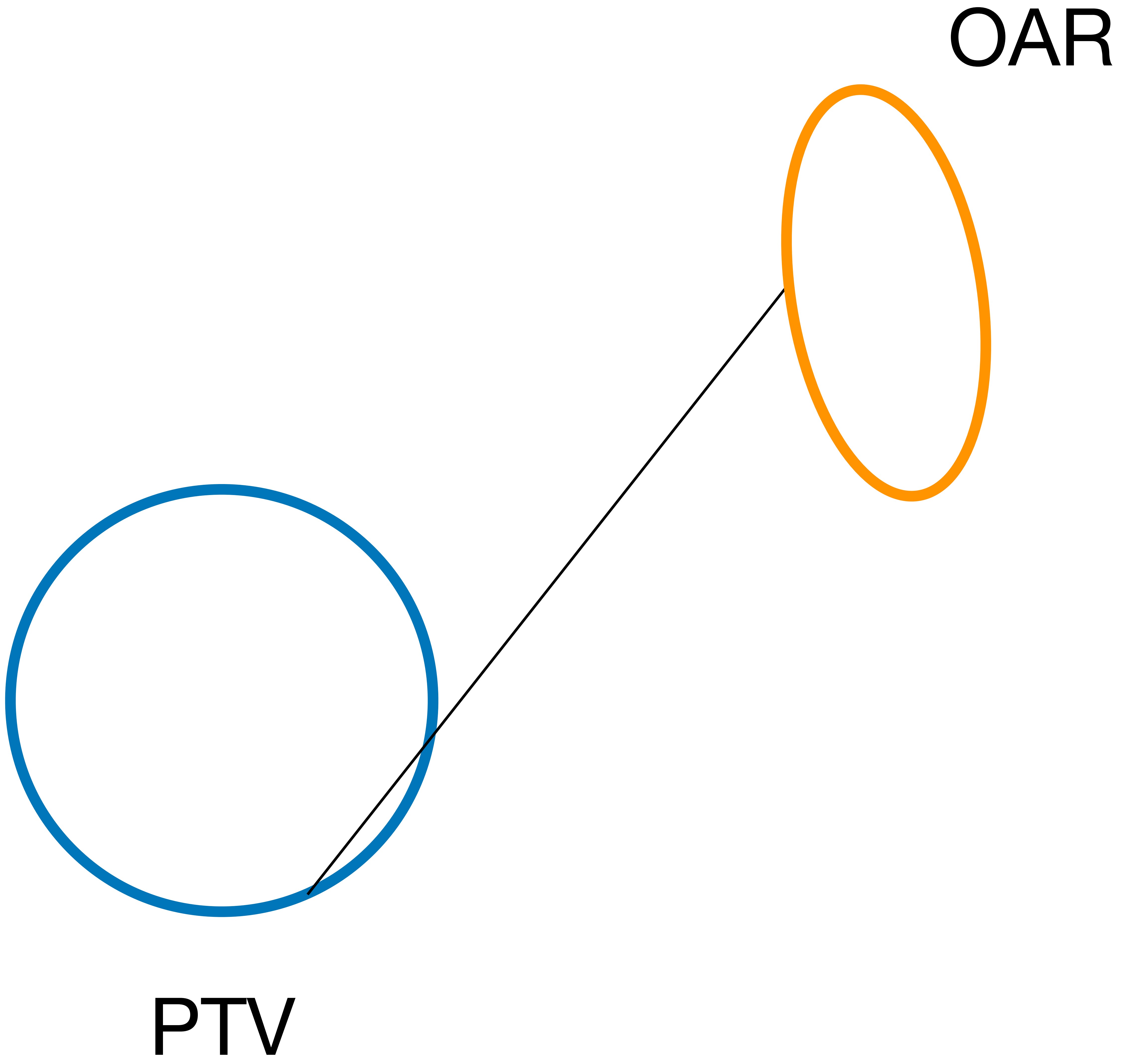

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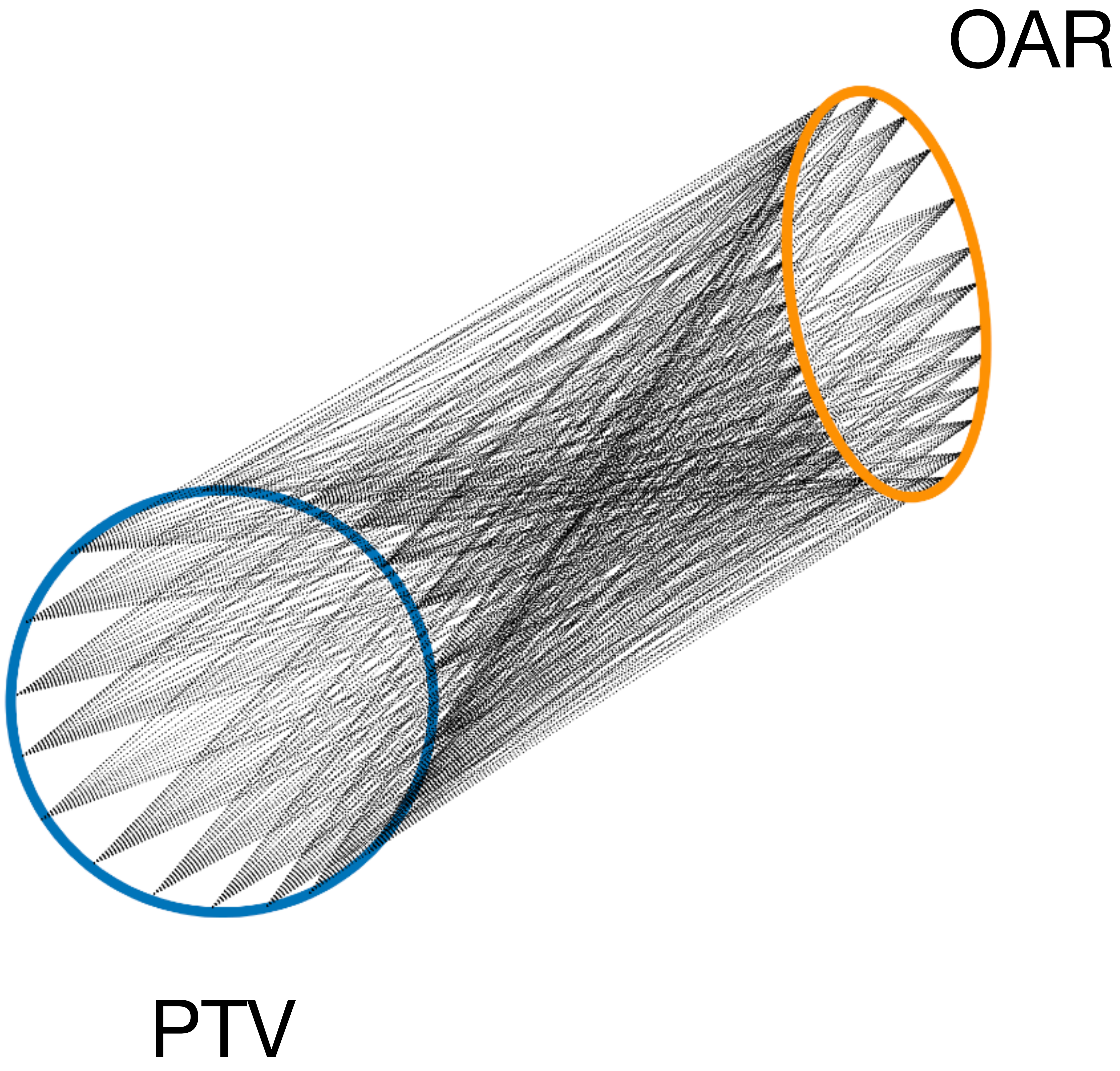
- Will continue this process for every point on PTV.
- Although this is a brute force method, calculation takes < 1sec per ROI on average.*
- Large contours may cause memory issues. External, skin, body, etc. ignored by default.
- Standard 3D Euclidean distances.



* Tested on a 2016 Macbook Pro 2.6GHz i7