

We envisioned a graph/ dashboard that would be animated/interactive. As time ( in our case the time since surgery time stamps) progresses, we wanted to see how a patient with unique metrics/characteristics would compare to the benchmark/target. We attempted to simulate this by grouping the record\_id and the koos\_pain and measuring the "patient's koos\_pain score over tss timeline". We hope to project this graph onto an interactive dashboard, but making this graph definitely gave us a working model/idea to experiment with. For our benchmark record\_id, for right now we are just choosing a random record\_id to simulate the goal of our dashboard. In our finalized dashboard/graphs, we plan on making the benchmark the average KOOS Pain at the time ( expected) and we'll be inputting unique patients' metrics ( KOOS Pain) and assessing their percentile rankings from the average ( if that makes sense). To reiterate, a keynote to make is that we plan on mirroring this similar code onto the different assessment metrics we expressed interest in ( from this dataset).