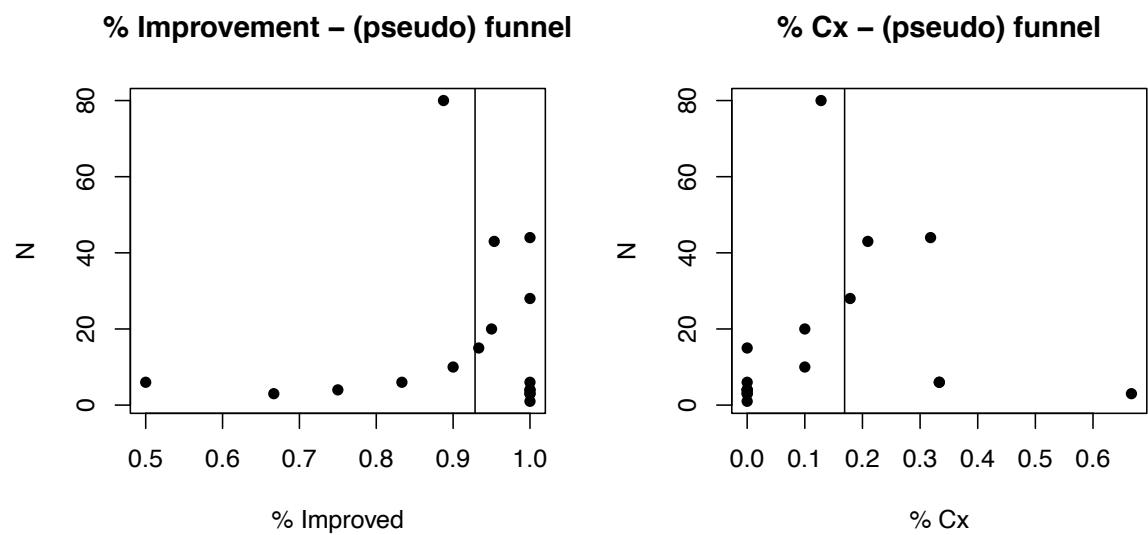


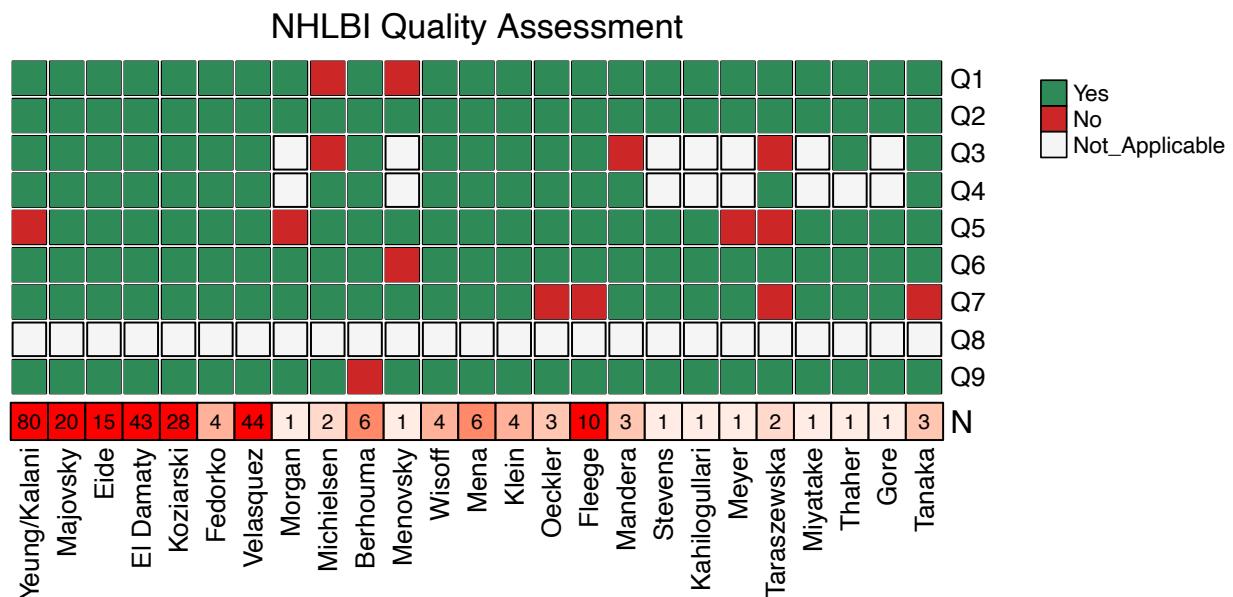
Supplementary Figures:



**Supplementary Fig. 1.** Visualization of possible reporting bias.

Cx= Complications

**Supplementary Fig. 2.** Summary of the quality of evidence that met both inclusion and exclusion criteria. Quality of evidence matrix. Questions are listed below.



Q1: Was the study question objective and clearly stated?

Q2: Was the study population clearly and fully described, including a case definition?

Q3: Were the cases consecutive?

Q4: Were the subjects comparable?

Q5: Was the intervention clearly described?

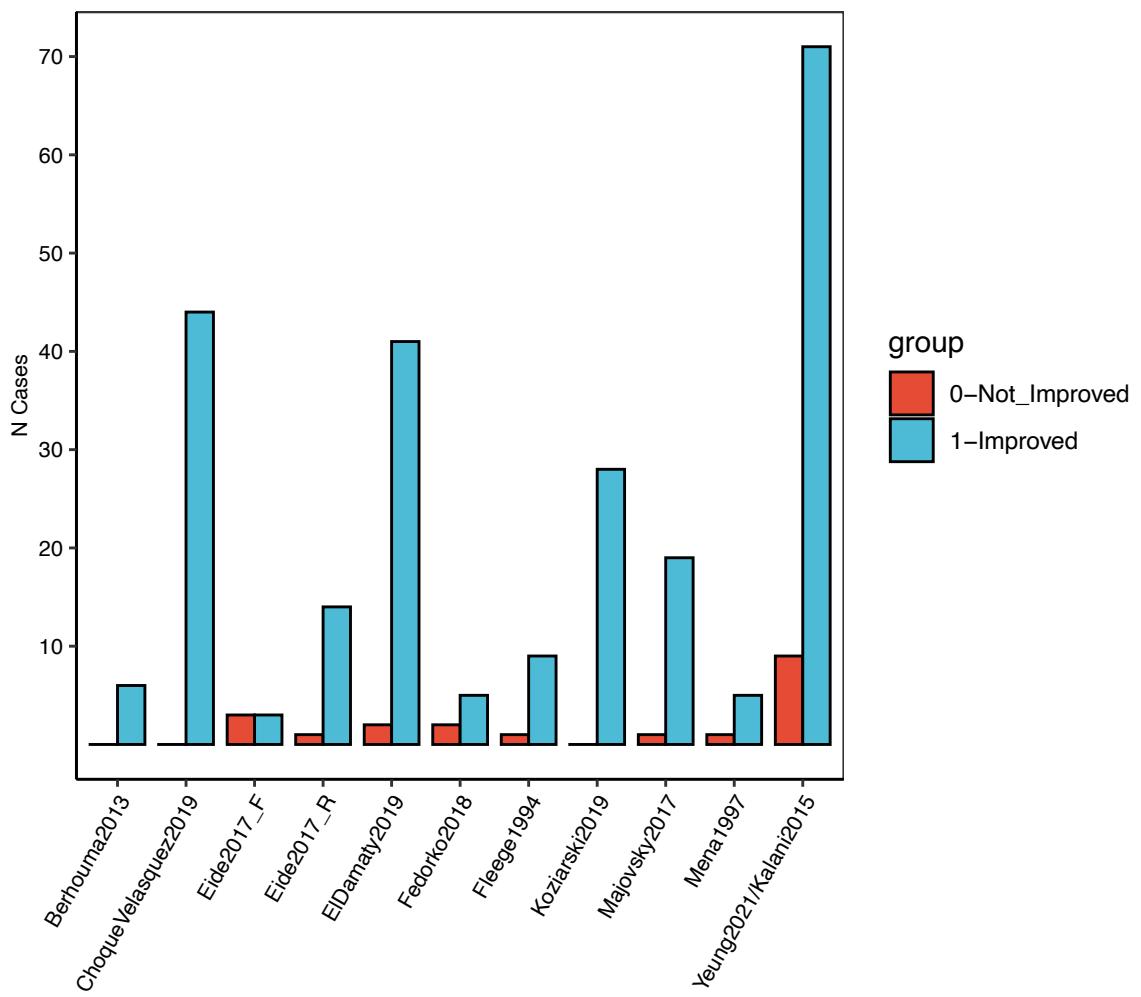
Q6: Were the outcomes measures clearly defined, valid, reliable, and implemented consistently across all study participants?

Q7: Was the length of follow-up adequate?

Q8: Were the statistical methods well-described?

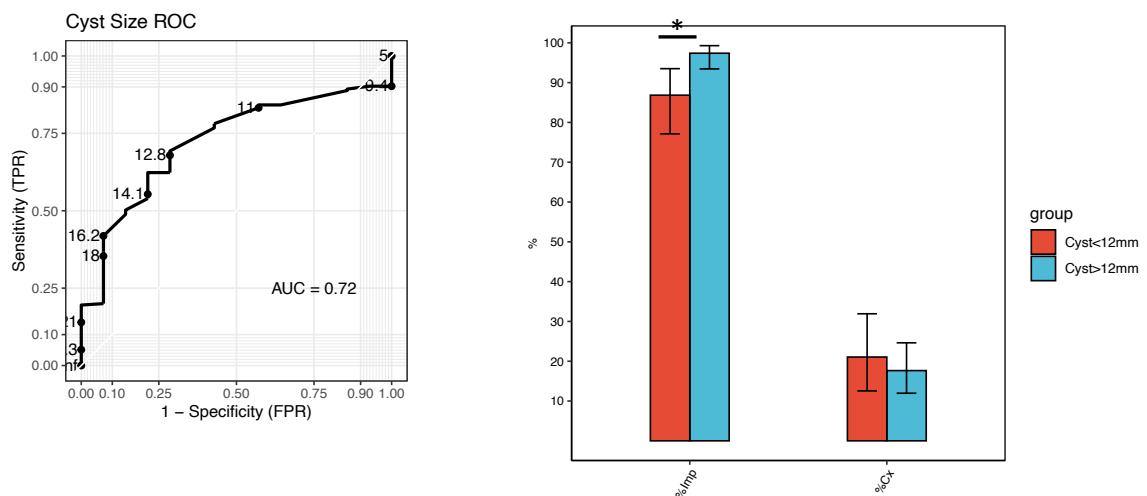
Q9: Were the results well-described?

The figure is available in color online.



**Supplementary Fig. 3.** Supplementary Figure to show the comparison between the reported improvement rate between different authors. Only authors with N>5 are shown.

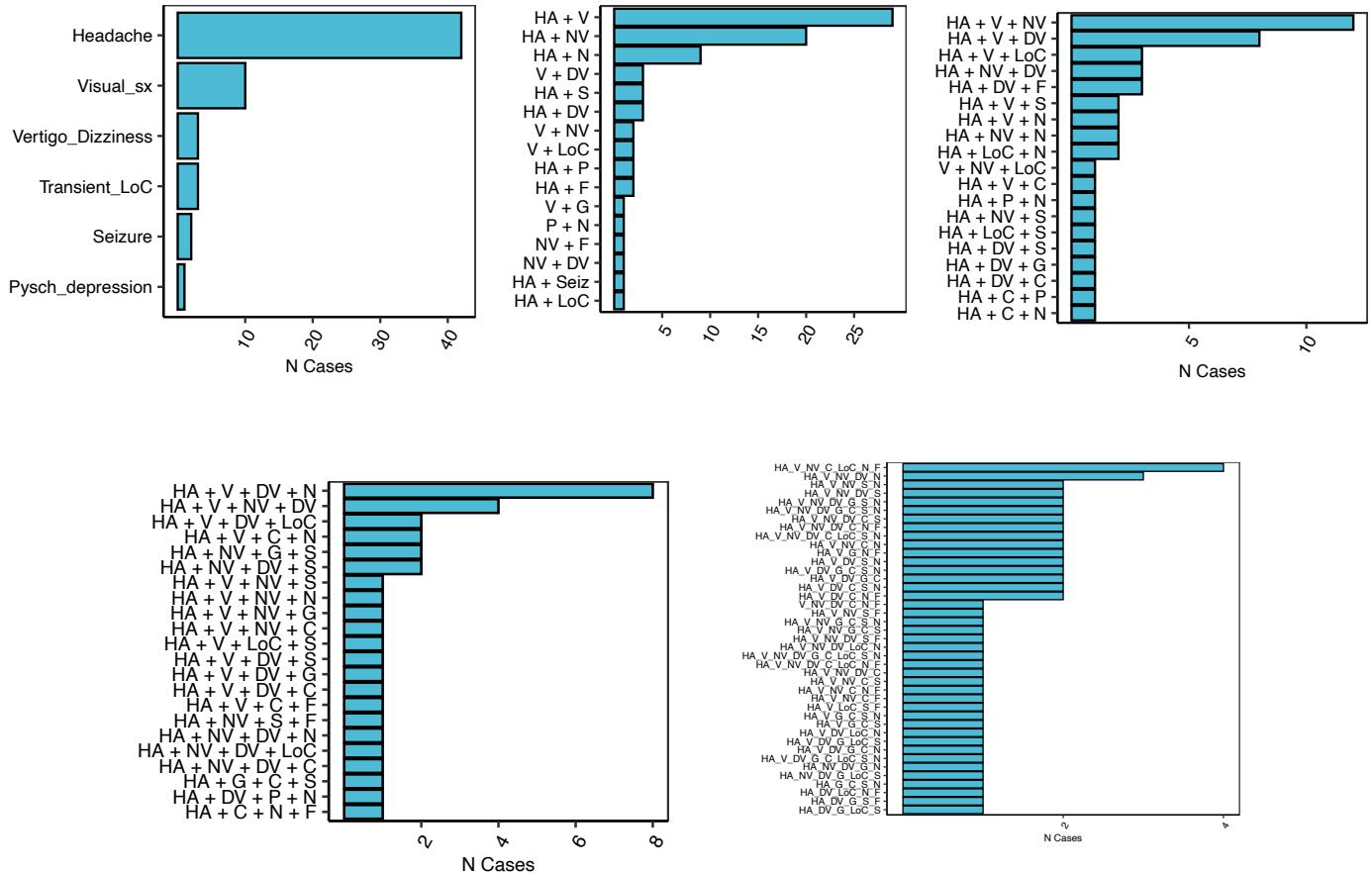
Refer to Supplementary Table 9 for a summary of the statistical analysis and a brief discussion of salient findings.

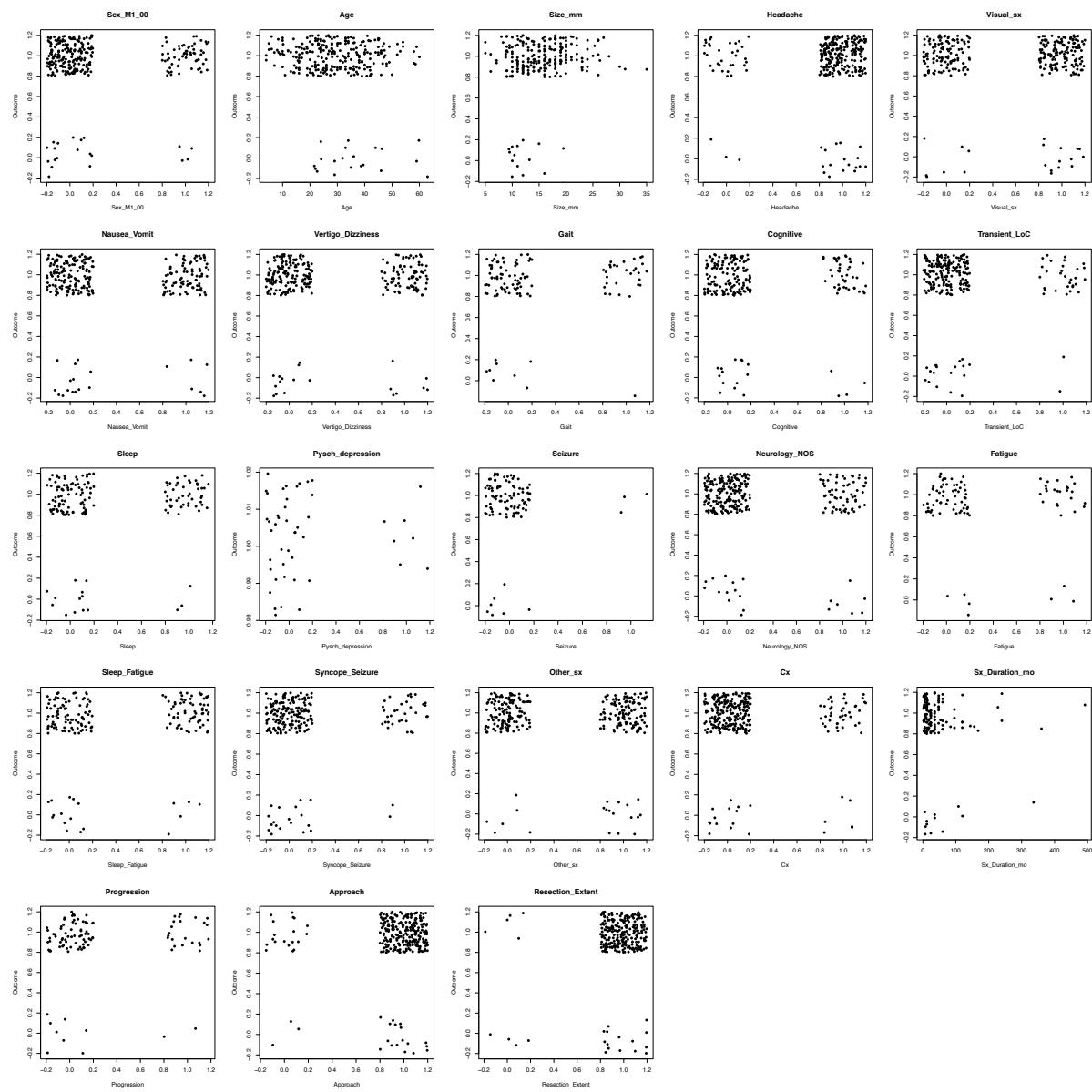


**Supplementary Fig. 4.** Cyst size threshold optimization. From the scatterplot in Supplementary Fig. 5 it appears that the relationship between cyst size and outcome is not linear. Exploratory post-hoc analysis identified an optimal threshold of CS=12mm able to best discriminate outcomes. Of note, cyst size has no effect on complication rate neither as continuous nor categorical variable.

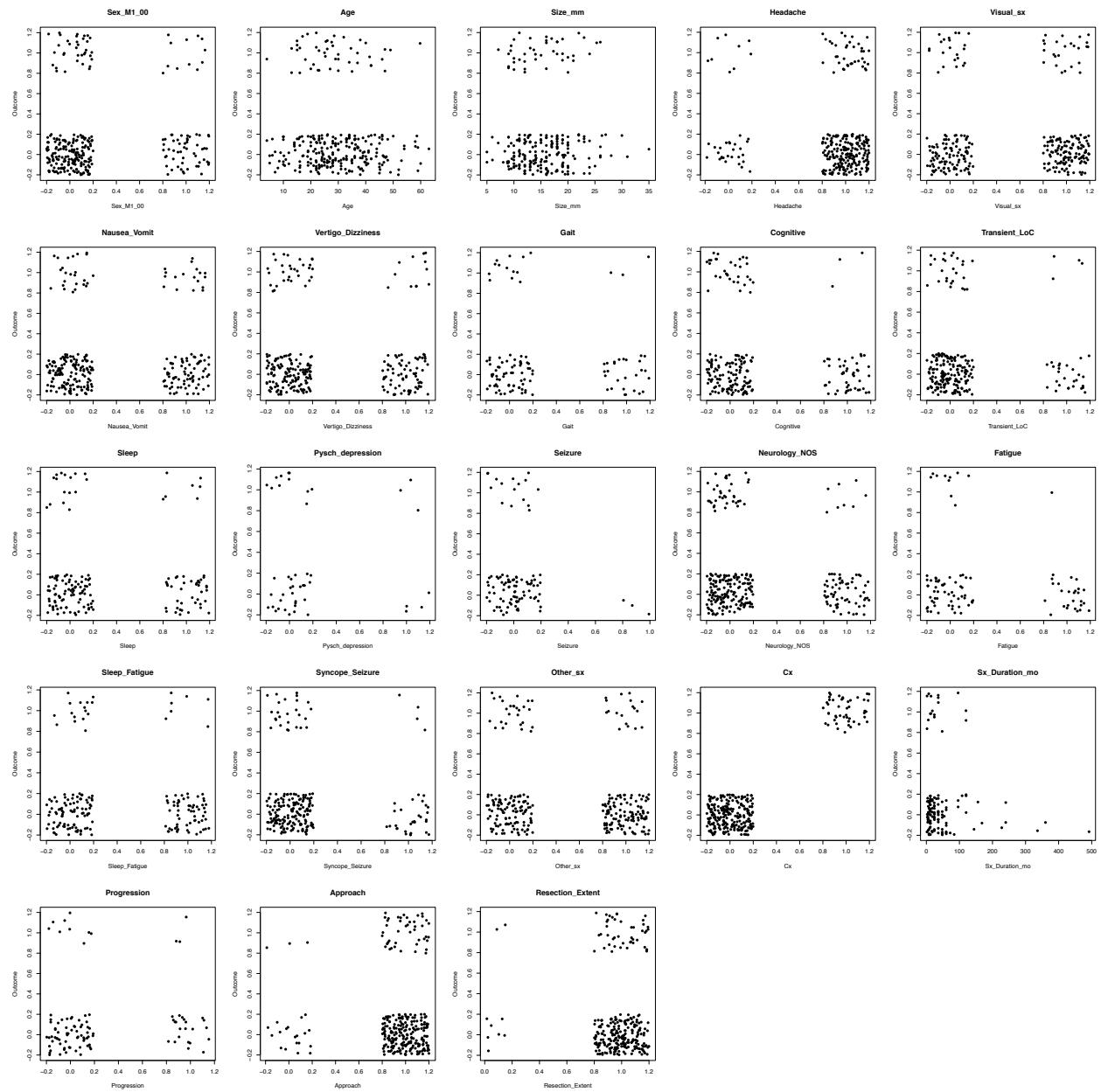
NB: The cyst size threshold =12mm is arbitrary and optimized to this dataset. Its clinical utility is therefore very limited, pending its validation on a distinct dataset.

**Supplementary Fig. 5.** Supplementary Figure showing the number of patients presenting with each combination of 1, 2, 3, 4, 5+ symptoms (left to right, respectively)





**Supplementary Fig. 6.** Supplementary Figure to show the relationship between each characteristics and patient outcome. Outcome=1 indicates improvement, whilst Outcome=0 indicates no improvement. For categorical variables x and y jitter has been introduced to generates density clouds. For continuous variable jitter was only applied to the y axis.



**Supplementary Fig. 7.** Supplementary Figure to show the relationship between each characteristics and patient complications. Outcome=1 indicates complications, whilst Outcome=0 indicates no complications. For categorical variables x and y jitter has been introduced to generates density clouds. For continuous variable jitter was only applied to the y axis.