**Appendix B: Details of Linear regression analysis**

We conducted linear regression to identify the impact of various factors on radiation exposure. We modelled the impact using three different models with different nature of covariates. First model contains patient characteristics, initial diagnosis and time variable. Model B included organizational factors while Model C incorporated technical factors. Both Model B and C adjusted for patient characteristics and initial diagnosis. Results were reported as regression coefficients with 95% CI. The regression approach used robust standard error to adjust heteroskedasticity. The R2 valueswere reported to examine which model explained larger variation in the outcome. Analysis carried out in Stata version 15.