

**Additional file 2: 2x2 tables and chi-square statistics for dichotomized learning and volume measure variables.**

R1

	Good Learning	Poor Learning
High Workload (census)	200 (76%)	62 (24%)
Low Workload (census)	378 (77%)	115 (23%)

Chi-square: 0.01, P=0.92

R2/3

	Good Learning	Poor Learning
High Workload (census)	95 (80%)	23 (19%)
Low Workload (census)	408 (83%)	84 (17%)

Chi-square: 0.38, P=0.5

R1

	Good Learning	Poor Learning
High Workload (new admits)	19 (61%)	12 (39%)
Low Workload (new admits)	550 (77%)	164 (23%)

Chi-square: 4.1, P=0.04

R2/3

	Good Learning	Poor Learning
High Workload (new admits)	4 (57%)	3 (43%)
Low Workload (new admits)	468 (83%)	93 (17%)

Chi-square: 3.4, P=0.07

Good learning = rated as 3, 4 or 5 by the resident

Poor learning = rated as 1 or 2 by the resident

High Workload (census) = census greater than 5 for R1, census greater than 10 for R2/3

Low Workload (census) = census of 5 or fewer for R1, census of 10 or fewer for R2/3

High Workload (new admits) = new admissions > 5 for R1, new admissions >10 for R2/3

Low Workload (new admits) = new admissions of 5 or fewer for R1, new admissions of 10 or fewer for R2/3