Appendix B. The stochastic component parameters of outcomes

Robust-ITS provides changes in the adjacent correlation (correlation between two consecutive time points) and variance of the response. Unit-specific estimates of the stochastic component parameters for every outcome are shown in Appendix Table 1.

As for all institutions, the adjacent correlation of CMI mean is larger and the standard deviation is smaller than before the policy was implemented; the same with the CEI mean performance. The adjacent correlation and standard deviation of the rest of the outcomes did not perform consistently well (either the adjacent correlation was small or the standard deviation was larger). It can be inferred that the change in CMI mean of the total public general hospitals may be more predictable and stable post-intervention, which are a positive result of the DRGs' policy intervention.

As can be seen in the subgroups, only the adjacent correlation of CMI mean in the secondary institutions is larger, and the standard deviation is smaller than before; only the adjacent correlation of CEI mean in the tertiary institutions is larger, and the standard deviation is smaller than before. The adjacent correlation and standard deviation of the rest of the outcomes did not perform well. It can be inferred that the change in CMI mean in secondary public general hospitals and the change in CEI mean of tertiary public general hospitals may be more predictable and stable post-intervention, which are positive results of the DRGs' policy intervention.

Outcomes	Unit	Adjacent correlation			Standard deviation		
		Pre-change	Post-change	Change	Pre-change	Post-change	Change
CMI mean	Total institutions	0.2560	0.5109	1	0.2139	0.2104	Ļ
	Tertiary institutions	0.5274	0.2934	\downarrow	0.1859	0.2135	1
	Secondary institutions	0.0718	0.3359	1	0.2080	0.2071	\downarrow
CPH mean	Total institutions	0.5988	0.0720	\downarrow	0.1811	0.2700	1
	Tertiary institutions	0.5246	0.3415	\downarrow	0.1867	0.2683	↑
	Secondary institutions	0.4715	0.1647	\downarrow	0.1734	0.2794	↑
CEI mean	Total institutions	0.0828	0.3093	1	0.2302	0.1859	Ļ
	Tertiary institutions	0.0822	0.4342	1	0.2534	0.1715	\downarrow
	Secondary institutions	0.0986	0.4750	1	0.1893	0.2293	↑
ALOS mean	Total institutions	-0.0453	-0.0369	↑	0.2302	0.2587	↑
	Tertiary institutions	0.0473	0.0535	1	0.2140	0.2377	↑
	Secondary institutions	-0.1052	-0.2084	\downarrow	0.2317	0.2296	\downarrow
TEI mean	Total institutions	-0.1202	0.7081	1	0.1920	0.2118	1
	Tertiary institutions	0.1382	0.1259	\downarrow	0.1911	0.2539	↑
	Secondary institutions	-0.2559	0.6688	1	0.1840	0.2265	↑

Appendix Table 1. Unit-specific estimates of the stochastic component parameters

Note: ALOS: average length of stay; CEI: cost efficiency index; CMI: case-mix index; CPH: cost per hospitalization; TEI: time efficiency index.