

Use of PLICS to analyze feasibility of using homecare services for inpatients

Problem statement

A multi-site multi-specialty public sector client provides a Home Health service for geriatric patients, patients with disability, widows and others in need. In this service a doctor or nurse visits the patient and provides care in their home setting. Globally several studies indicate that a hospital at home care can be a feasible alternative for stable patients in inpatient care. Feasibility of this service can be analyzed through use of PLICS solution.

Methodology and outputs used

For this analysis we divided the patients into two cohorts. One that received homecare services post

discharge and the second group that did not receive those services. The data was gathered from the Costing system by linking the inpatients dataset to the patients receiving home care services post discharge for 3 months. The patient cost was compared by including ward stay cost excluding critical care and home care visits.

Outcome

Based on the analysis, it was evident that homecare services are an efficient model of care used by the client and possible avenues of expansion of the service should be considered by the clinical team.

Measure	Cohort 1- Patient receiving Home Care Service	Cohort 2- Patient not receiving Home Care Service
Average length of stay	32	46
Ward stay cost excluding critical care @1,460 bed day cost	\$17,931	\$17,931
Avg number of home visits post discharge in 3 months	3 Visits	
Total cost normalized for 146 IP episodes	\$1.9M	\$2.6M

Patient 1					
Patient ID	Episode Sr No	Start Date	End Date	LOS	Sum of cost
xxxx18	xxxx10	18-Oct	19-Jun	258	\$100,000
Grand Total					\$100,000

Patient 2					
Patient ID	Episode Sr No	Start Date	End Date	LOS	Sum of cost
xxxx63	xxxx23	19-Jul	19-Aug	26	\$10,527
Grand Total					\$10,527