

BUDGET IMPACT OF POST-STROKE DYSPHAGIA: DATABASE ANALYSES OF HOSPITAL DISCHARGES IN FRANCE AND SWITZERLAND

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INTRODUCTION

Oropharyngeal dysphagia is prevalent in hospitalized post-stroke patients and is associated with increased mortality and comorbidities. The aim of our analysis was to evaluate the impact of dysphagia on Length of Hospital Stay (LOS) and costs. The hospital perspective was used to assess costs.

METHODS

Hospital discharge databases comparing hospital stays for stroke associated with dysphagia vs stroke without dysphagia in France and Switzerland were analyzed. The French Medical Information System Program (PMSI) database analysis focused on 62'297 stays for stroke in public sector. 6'037 hospital stays for stroke were analyzed from Swiss OFS (Office fédéral de la statistique: Statistique des coûts par cas 2012) database. Diagnosis codes and listing of procedures were used to identify dysphagia in stroke patients.

RESULTS

Patients with post-stroke dysphagia accounted for 8.4% of stroke hospital stays in Switzerland, which is consistent with recently reported prevalence of dysphagia at hospital discharge (Arnold *et al*, 2016). The French database analysis identified 4.2% stays with post-stroke dysphagia. We hypothesize that the difference between the Swiss and French datasets may be explained by the limitations of the analysis based on diagnosis and procedure coding.

Post-stroke dysphagic patients stayed longer at hospitals (LOS of 23.7 vs. 11.8 days in France and LOS of 14.9 vs. 8.9 days in Switzerland) as compared to post-stroke patients without dysphagia.

Post-stroke dysphagia was associated with appx €2'926 and CHF13'959 cost increase in France and Switzerland respectively.

Hospital LOS and Costs of Hospital stays for stroke with vs. without dysphagia in France

	Stroke with Dysphagia	Stroke w/o Dysphagia
Number of stays	2'624	59'673
Average LOS, days	23.7	11.8
Average Cost of Hospital Stay	€8'770	€5'844

Hospital LOS and Costs of Hospital stays for stroke with vs. without dysphagia in Switzerland

	Stroke with Dysphagia	Stroke w/o Dysphagia
Number of stays	510	5527
Average LOS, days	14.9	8.9
Average Cost of Hospital Stay	CHF 27'801	CHF 13'842

CONCLUSIONS

Post-stroke dysphagia is associated with increase of length of hospital stay and higher hospital costs.