Incidence of Gastrointestinal Tract and Motility Disorders in Post-**Cardiac Arrest Patients**



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Introduction

In the US, 209,000 patients are treated for cardiac arrest annually. Of thes patients, only about 10.8% of in-hospit cardiac arrests (CA) survive. Th is largely dependent on the etiology cardiac arrest, duration of cardiac arrest cardiopulmona quality and Of resuscitation. Although cardiac arre often has an underlying cardiopulmona etiology, post-cardiac (PC) arrest morbidity affects all orga Post-cardiac systems. arre functionality typically quantifie is by voluntary measures, like activities living. Our analysis seel daily to qualify Post-cardiac arrestfunctionali with involuntary measures, such gastrointestinal motility.

Methods

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The National Inpatient Sample 200 Private 33% African American Medicaid 2013 database was queried for patien with a diagnosis of a history of cardia Medicare 48% Hispanic 12% Insurance arrest using International Classification Other Insurance of Diseases, Ninth Revision (ICD-Asian/Pacific codes. Constipation, celiac disease, ga Islander/Native American roparesis, dysphagia, gastroesophage Discussion reflux disease (GERD), and irritab Cardiac arrest is a devastating physiologic stressor to the body. Although patients who are post-cardiac arrest bowel syndrome (IBS) were identifie suffer from debilitating morbidity, long-term quality of life years in these patients approaches that of the general ICD their with respective population after 6-12 months. However, our analysis shows the prevalence of several motility disorders is codes. Prevalence of these diseas increased in post-cardiac arrest when compared to the general population. This is likely due to shunting of blood taken from accepted rates were to vital structures like the heart and brain during the interim cardaic arrest low-flow state. Further investigation is identified American the in needed to better understand this the risks and protective factors associated with cardiac arrest and Gastroenterological gastrointestinal motility. Association publications.



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There were 127,192 patient admissions identified that had an associated diagnosis of post-cardiac arrest. Our analysis found that post-cardiac arrest patients had a higher prevalence of constipation (3% vs. 2%), celiac disease (1% vs. 0.1%), GERD (18-27% vs. 13.3%), and gastroparesis (0.9% vs. 0.0063%) compared to the national average. The prevalence of dysphagia remained unchanged at 4% when compared to the general population. The prevalence of IBS (0.6% vs. 10-15%) were lower in the post-cardiac arrest group. Figure 1: Demographic Data for Study Population
 Table 1: Prevalance of
Gastrointestinal Motility Study Population by Age Study Population by Gender **Disorders in Post-Cardiac Arrest**

Patients

Comorbidity	Prevalence in Post- Cardiac Arrest	Prevalence in General Population
GERD	18-27%	13.3%
Constipation	3%	2%
Celiac Disease	1%	0.1%
Gastroparesi s	0.9%	0.0063%
Dysphagia	4%	4%
IBS	0.6%	10-15%

References:

Andersen LW, Holmberg MJ, Berg KM, Donnino MW, Granfeldt A. In-Hospital Cardiac Arrest: A Review. JAMA. 2019 Mar 26;321(12):1200-1210. doi: 10.1001/jama.2019.1696. PMID: 30912843; PMCID: PMC6482460.

Results



