

## Disparate Use of Chemical and Physical Restraints in the Emergency Department by Race/Ethnicity

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**Abstract :** Introduction: Restraints are often used in the Emergency Department when it is necessary for a patient to be restrained in order to decrease their agitation and better treat them. Chemical and physical restraints may be used on these patients at the discretion of the medical provider. Racism and injustice are rampant within our country, and medicine and healthcare are not spared. While racism and racial bias in medicine and healthcare have been studied, information on the differences in the use of restraints by race are scarce. Objective: The objective of this study is to determine if African Americans and Hispanic-American patients are restrained at higher rates compared to their White counterparts. Methods: This study will be carried out through a retrospective analysis utilizing the Hospital Corporation of America (HCA) national Emergency Department (ED) and inpatient database with patient visits from 2016-2019. All patient visits, with patients aged 18 years or older, will be reviewed, looking specifically for the race and the use and type of restraints. Other factors, such as pre-existing psychiatric condition, will be used for sub-analysis. Rationale: The outcome of this project will demonstrate the absence or presence of a racial disparity in the use of restraints in the Emergency Department. These results can be used as a foundation for improving racial equity in healthcare treatment.

**Keywords :** emergency medicine, public health, racism, restraint use

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