

# A Review Paper on Stabilized Stretcher for Ambulance

Om S. Shewale<sup>1</sup>, Apurva B. Guldagad<sup>2</sup>, Sachin F. Shewale<sup>3</sup>, Prof. Vilas K. Dhagate<sup>4</sup>

College of Engineering, Bavdhan, Pune, Maharashtra, India<sup>1</sup>

DVVPF'S Institute of Business Management and Rural Development, Ahilyanagar, India<sup>2</sup>

Guru Gobind Singh Polytechnic, Nashik, Maharashtra, India<sup>3,4</sup>

**Abstract:** *This work deals with a scrutiny of the acceleration equal to which a patient is uncovered during ambulance transportation. A dynamic scrutiny of ambulance movements has been advanced considering some different operating circumstances of the vehicle, such as braking, driving over speed bumps and on uneven pavements. The tenacity of this study is providing sources for development of a system reducing vibration effects on the body when a patient is transported by ambulance.*

*a) Highlights*

- *The vehicle dynamic analysis simulated the behaviour of the ambulance during sudden braking, and driving over different types of road unevenness*
- *A full vehicle multi-body model with 16 degrees of freedom and 34 bodies was engaged in the simulations*
- *The results achieved provide useful inputs for the development of systems for dropping the vibration effects on the patient's body*

**Keywords:** patient