

Development of an ergonomic infant seat with restraint system for use in an aircraft

ABSTRACT

A restraint system to hold an infant between 0 to 24 months old on a commercial passenger aircraft has not been improved since the early development of the aviation industry. The ergonomic feature of the seat that fits the infant was not extensively studied compared to the development of the seat with restraint devices for adult passenger. The objective of this paper is to review the current regulations regarding restraint devices for infants in an aircraft. It also attempts to explore the ergonomics of current and new technology of infant seat with restraint system.

Keyword: Aviation; Ergonomics; Human factor engineering; Mechanical design