

Transportation chair

Device for short distance transportation of a person in a seated position, propelled and controlled by an assistant. General product features include the wheel configurations, which is designed to enable short-term safe and rapid access in difficult areas, a seat and backrest combination, safety belts, seatbelts or harness to secure the occupant during emergency evacuation or carriage in specific areas such as stairs. As transportation chairs are designed for emergency use, independence for the user is not a priority and often the transport chair will be too low or have a configuration of foot supports that means assistance is also required to transfer on and off the transportation chair.

- **Product Classification**

- APL (WHO Assistive Product Priority List): 47 (Wheelchairs, manual assistant-controlled)
- ISO 9999:2022: 122704 (Transportation chairs)

- **Possible configuration variants**

None specified.

- **Possible accessories or optional components**

- Gearing mechanism to enable manual propulsion up and down stairs.
- Power-assisted propulsion.

- **Product goals**

Activities or functions the product is mainly intended to support, according to WHO ICF Classification:

- Moving around using equipment [\[d465\]](#).

- **Indicated impairments**

Difficulties the product is mainly intended to address, according to the WHO ICF Classification:

- Walking [\[d450\]](#) (severe difficulty).
- Consciousness functions [\[b110\]](#) (necessitating emergency removal).
- Using transportation [\[d470\]](#).

- **Contraindicated impairments**

Difficulties for which the product may be inappropriate:

None specified.

- **Indicated environments**

Specific environments in which the product should be used:

- Emergency evacuation pathways (for example through stairwells of buildings).
- Airports and airplanes.

- **Contraindicated environments**

Environments in which the product may be inappropriate:

None specified.

- **Other indicated factors**

Other factors or situations the product is intended to address:

- Emergency evacuation.

- **Other contraindicated factors**

Other factors or situations in which the product may be inappropriate:

None specified.

- **Points to be considered in product selection**

- Transportation chairs are often located in the environment of use, may be utilized occasionally only, and likely to be utilized for multiple users over time.
- Points to be considered in product fitting
 - None specified.
- Points to be considered in product use
 - The mechanism of use is for assistants trained in use of the transportation chair to approach the user, implement a safe transfer onto the transportation chair and secure the occupant, propel the transportation chair and utilize any power and safety features to negotiate the path of travel, then safely transfer the occupant to the destination surface.
- Points to be considered in product maintenance / follow-up
 - A regular schedule of maintenance should occur, and in-service training to familiarize personnel with their use.
- Examples of products available on the market
 - Live product search in the EASTIN website <https://www.eastin.eu/en/searches/products/list?iso=122704>

Source

This Fact Sheet was compiled in 2021 by an international team of experts, to provide the initial knowledge base for a project ("An online system to assist the selection of assistive product") supported by the World Health Organization in 2020-2021 within the GATE Initiative (Global collaboration on Assistive Product). Fact Sheets were compiled for each of the 50 types of products included in the WHO APL (Assistive Product Priority List).

The team was composed of Renzo Andrich (Italy, group leader), Natasha Layton (Australia), Stefan von Prondzinski (Italy), Jerry Weisman (USA), Silvana Contepomi (Argentina) and Hasan Minto (Pakistan).

The project led to a prototype online tool called ASPREX (ASsistive PProduct EXplorer). At the end of the project, it was transferred to a WHO collaborating center (the Global Disability Hub in the UK), in view of possible future developments.