



PAPERBOARD SPLINT

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OBJECTIVE:

To present the innovation and production of a low cost splint, made of recycled materials, for use in hand therapy at the Hospital Universitário Pedro Ernesto in Rio de Janeiro, Brazil, since 2007

METHODS/RESULTS:

The basic raw materials employed in the so called paperboard splint are corrugated cardboard, steel wire, glue, and EVA (ethyl-vinyl acetate), only needing a pair of pliers and scissors for fabrication. These materials are able to produce similar anatomical and biomechanical characteristics of a regular splint, made of much more expensive material, such as fiberglass plaster and thermoplastic, though these materials can be associated to the paperboard splint. The durability of the splint is around one year.



CONCLUSIONS:

This low cost and recyclable material adaptation in the hand splinting construction arsenal can be used especially in environments where cost is a factor.