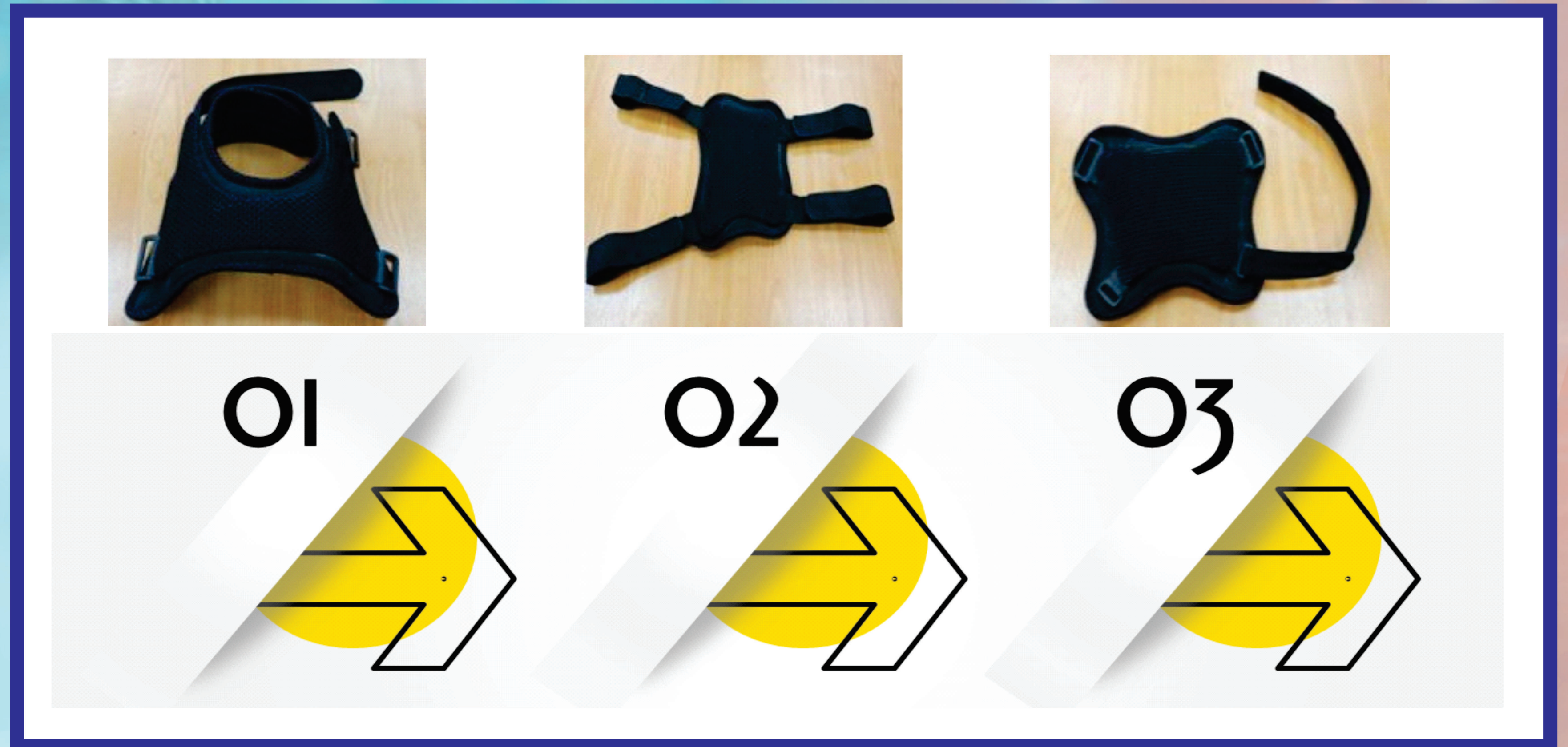


**RESEARCHERS:**

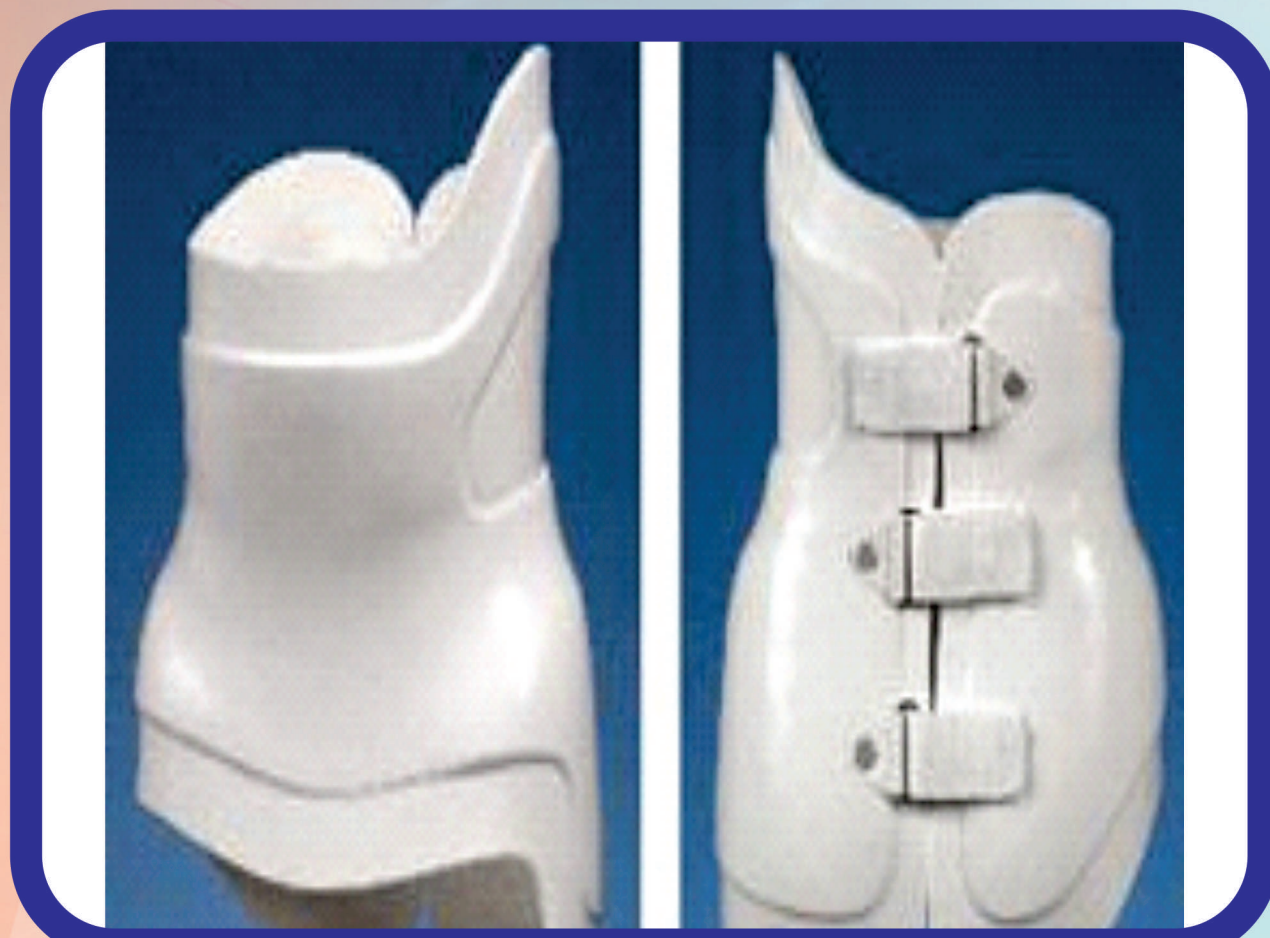
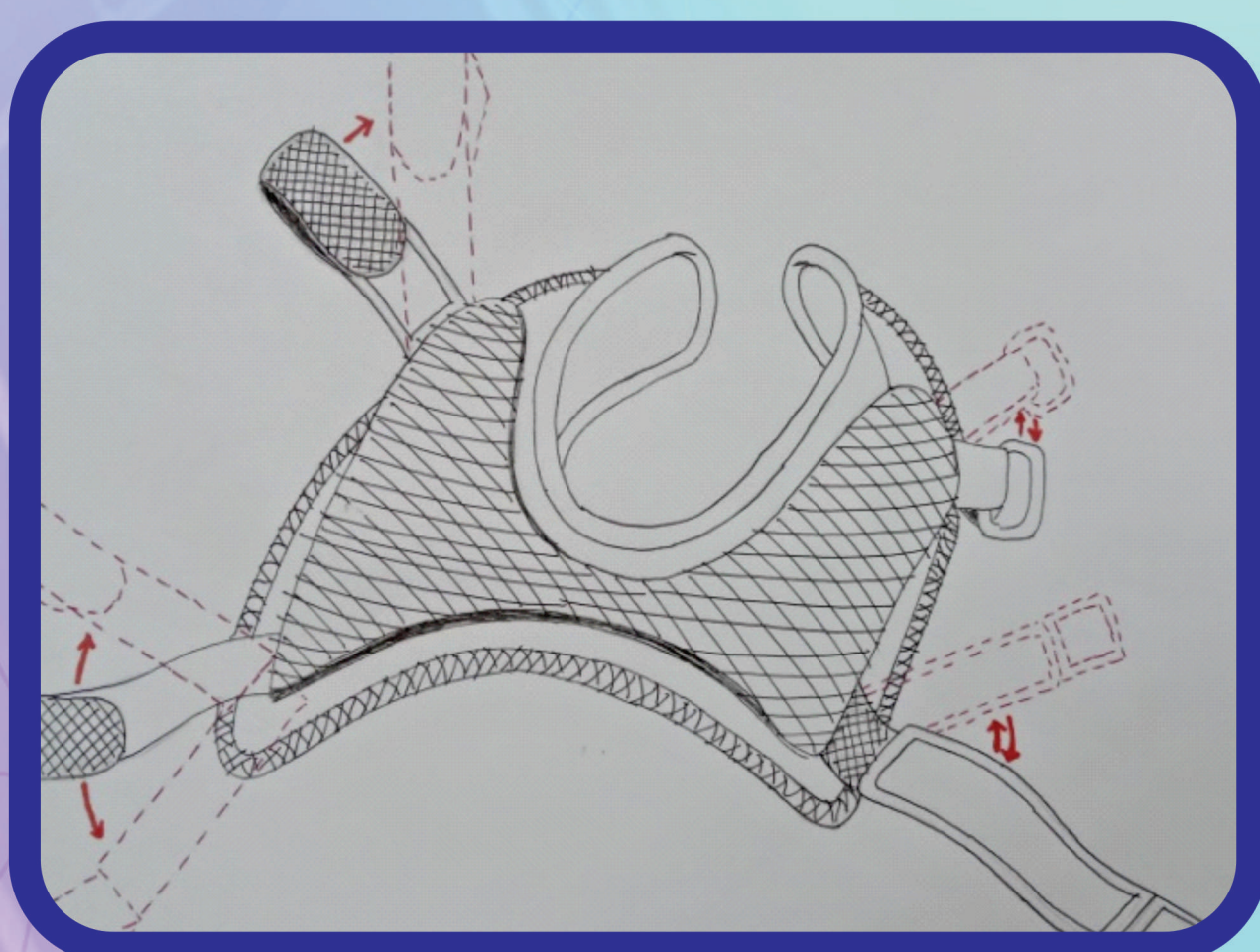
**DR. MUHAMMAD HAFIZ HANAFI**  
Beyond Rehab Team

**INTELLECTUAL PROPERTY:**

**2 COPYRIGHTS FILED  
ON CONDUCTIVE INK FORMULATION**



# S-LOCK



**Introduction**

- S-Lock is also known as Spine LOCK. S-LOCK is a 3-IN-1 rehabilitation innovation device where it is used for patients with spinal problems such as 1) scoliosis, 2) shoulder support, and 3) postural support in conditions that can lead to wrong position such as the effects of stroke, burns etc.

**Problem Statement**

- The back pain and scoliosis patient treatment quality is decreasing due to the reduce compliance of these patients wearing the expensive non-convenient spinal brace. This lead to dissatisfaction for both the therapist and the patient. S-LOCK was invented to solve this issue.

**Inventiveness and Novelty**

- This invention is fabricated from the recyclable components, which is not only locally produced and low-cost, but also environmental friendly.  
- This S-LOCK is also lighter, easy-to-carry, more comfortable, easy-to-clean and so much cheaper than the conventional spinal brace.

**Intellectual Property Status**

- MyIPO IP application completed (LY2018003002)

**Usefulness and Application**

- It is easy to fit & wear, cosmetically acceptable for those wearing it and medically it can improve the scoliosis with proper and regular usage after 3 months.

**Status of Invention**

- **TRL 8.** Actual product designed compleyed and qualified through test and de,omstartion. And also has been sold internally at Hospital USM.

**Commercial Potential**

- Government and Private Health Providers
- Pharmacies and fitness centres
- Factories

**Potential Partners**

- Alpro pharmacy & Guardian pharmacy

**Knowledge Management (Grant/Publication/etc)**

- We have workshop/ educational talk to those using this S-LOCK to increase their compliance to the product.

**Impact of the Product**

- To the university : income generation
- To the staffs : less burden to do therapy
- To the patients : less need for correction surgery (in scoliosis).

**Contact Person:**

**DR. MUHAMMAD HAFIZ HANAFI**

School of Medical Sciences, Health Campus, Universiti Sains Malaysia, Kelantan, MALAYSIA

Tel: +609-767 3316 Fax: +609-767 6300 E-mail: [drmdhafiz@usm.my](mailto:drmdhafiz@usm.my)