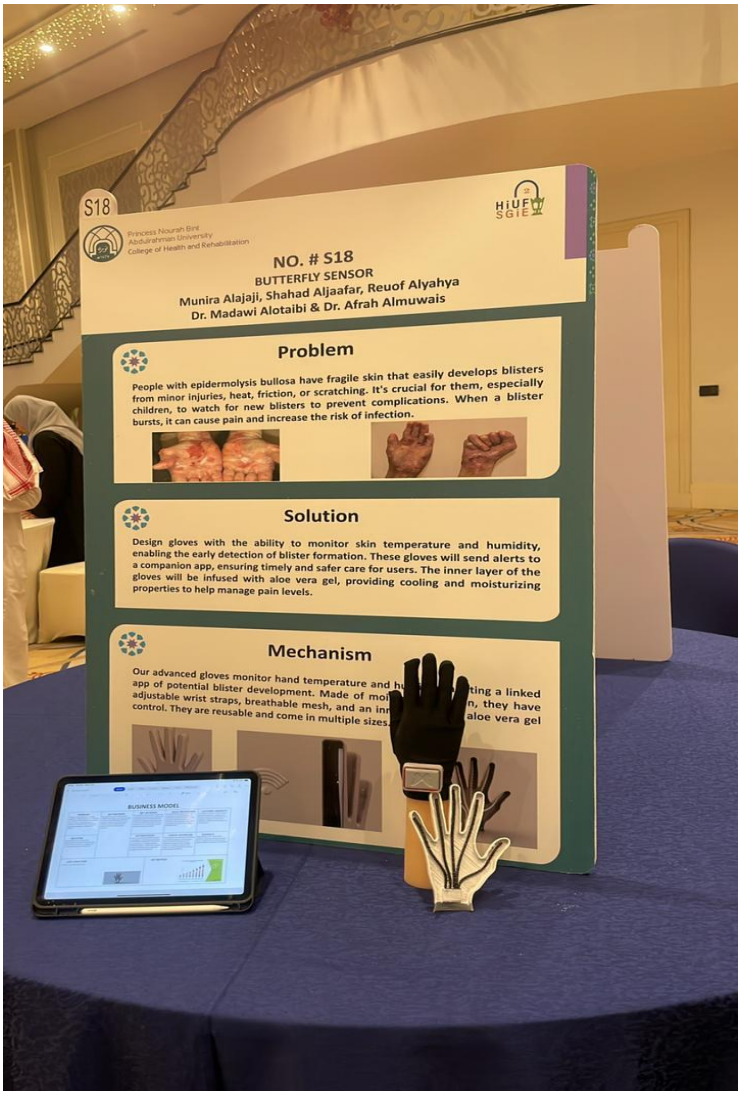
SPECIAL AWARD
This great achievement is just the beginning. Your ability to find innovative ways to improve the world is the key to this success and many to come.
Highly Innovative Unique Foundation
SGiE, 2024
HIUF
Highly Innovative Unique Foundation
(HIUF)
in the Kingdom of Saudi Arabia
presented
Grand Special Award to
Shoes for children who walk on their toes "Tip Toe Tech"
Dr. Madawi Alotaibi, Jumana Almakhdob, Alia Alhussein, Shoug Aljumaiah, Shatha Binkhelaif, Hussa Alhamin and Sumayah AlEid
Awarded in
Saudi Global Inventions and Innovations Expo
(SGiE, 2024)
President of HIUF
Prof. Najia Alzanbagi
HiUF SGiE

Special Award
FOR DISTINGUISHED RECOGNITION OF YOUR OUTSTANDING EXCELLENT INVENTION
HIUF
Saudi Global Inventions and Innovations Expo
(SGiE, 2024) by HIUF
Kingdom of Saudi Arabia - Jeddah

Gold Award
Hosted by Surya Buana Malang Indonesia
This certificate is proudly presented to
For his/her active participan in SGIE 2024 in
Jeddah Kingdom of Saudi Arabia
Surya Buana, November 6-8,2024
Association Of Indonesian Educator
And Education Developers
Prof. Dr. H. Subanji, M.Si
Head Yayasan Cita Persada Malang Foundation
Hafwan Hadiwijaya, S.T


S18
HiUF SGiE
Princess Nourah Bint Abdulrahman University
College of Health and Rehabilitation
NO. # S18
BUTTERFLY SENSOR
Munira Alajaji, Shahad Aljaafar, Reuof Alyahya
Dr. Madawi Alotaibi & Dr. Afrah Almuwais
Problem
People with epidermolysis bullosa have fragile skin that easily develops blisters from minor injuries, heat, friction, or scratching. It's crucial for them, especially children, to watch for new blisters to prevent complications. When a blister bursts, it can cause pain and increase the risk of infection.
Solution
Design gloves with the ability to monitor skin temperature and humidity, enabling the early detection of blister formation. These gloves will send alerts to a companion app, ensuring timely and safer care for users. The inner layer of the gloves will be infused with aloe vera gel, providing cooling and moisturizing properties to help manage pain levels.
Mechanism
BUSINESS MODEL

S9
Princess Nourah Bint Abdulrahman University
College of Health and Rehabilitation
HiUF SGIE
No. # S9
TIP TOE TECH
Jumana Almakhdob, Alia Alhussein, Shoug Aljumaiah, Shatha Binkhelaif,
Hussa Alhamin, & Sumayah AlEid
Dr. Madawi Alotaibi
Problem
Children who walk on their toes may benefit from rehabilitation to improve their quality of life. Conservative treatment has been found to be effective in rehabilitation clinics and at home. However, committing to the rehabilitation program is crucial to achieving positive outcomes.
Solution
Invent a smart shoe to comprehensively address the challenges faced by children with tiptoe walking patterns, helping them develop a more natural and healthy gait through a combination of technological features, therapeutic interventions, and an emphasis on user comfort.
Mechanism
The shoes have a stretching foam for proper foot alignment, with a timer-based system and sensory detectors for toe walking. They come with a connected smartphone app for tracking walking habits, and a foldable sock with electrical stimulation for muscle strengthening. The materials are breathable and anti-sweat for comfort during extended use.

يحدث الآن
GOLD MEDAL
SENSORY DEFENDER
Exhibited at Saudi Global Inventions and Innovations Expo
(SGiE, 2024)
Jeddah, Saudi Arabia
President of HIUF
Prof. Najia Alzanbagi
GOLD MEDAL
Butterfly Sensor
Exhibited at Saudi Global Inventions and Innovations Expo
(SGiE, 2024)
Jeddah, Saudi Arabia
President of HIUF
Prof. Najia Alzanbagi
GOLD MEDAL
Walker for Elderly "ARDN"
Exhibited at Saudi Global Inventions and Innovations Expo
(SGiE, 2024)
Jeddah, Saudi Arabia
President of HIUF
Prof. Najia Alzanbagi
GOLD MEDAL
Exhibited at Saudi Global Inventions and Innovations Expo
(SGiE, 2024)
Jeddah, Saudi Arabia
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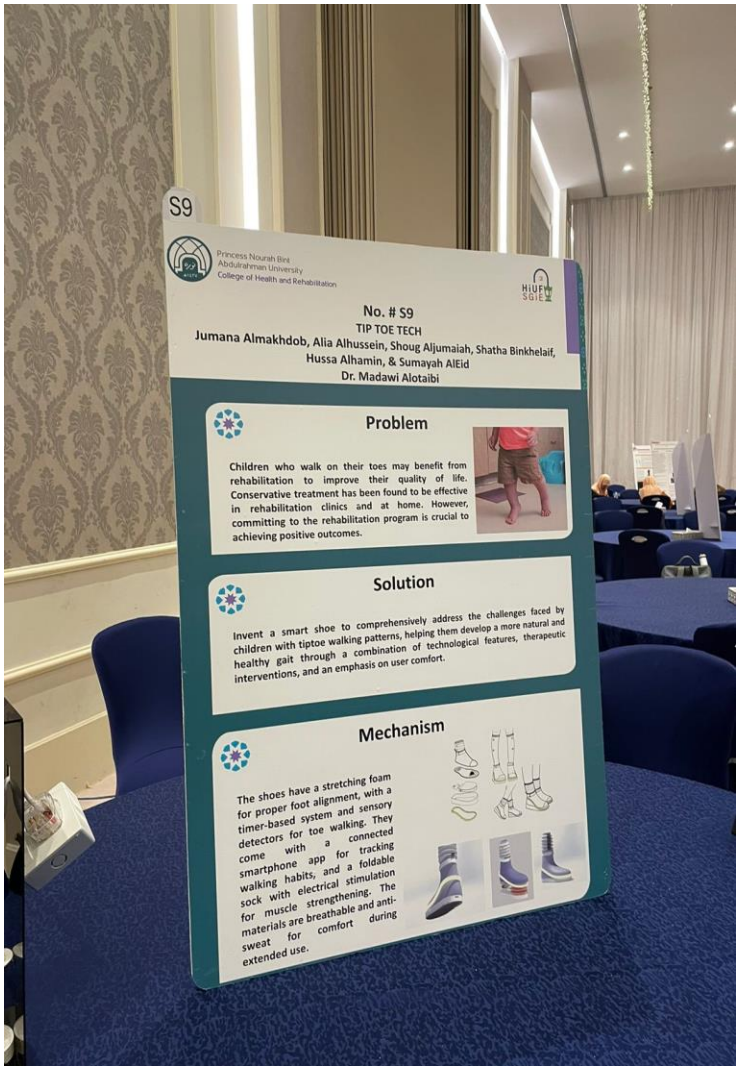
S9
Princess Nourah Bint Abdulrahman University
College of Health and Rehabilitation
HiUF SGIE
No. # S9
TIP TOE TECH
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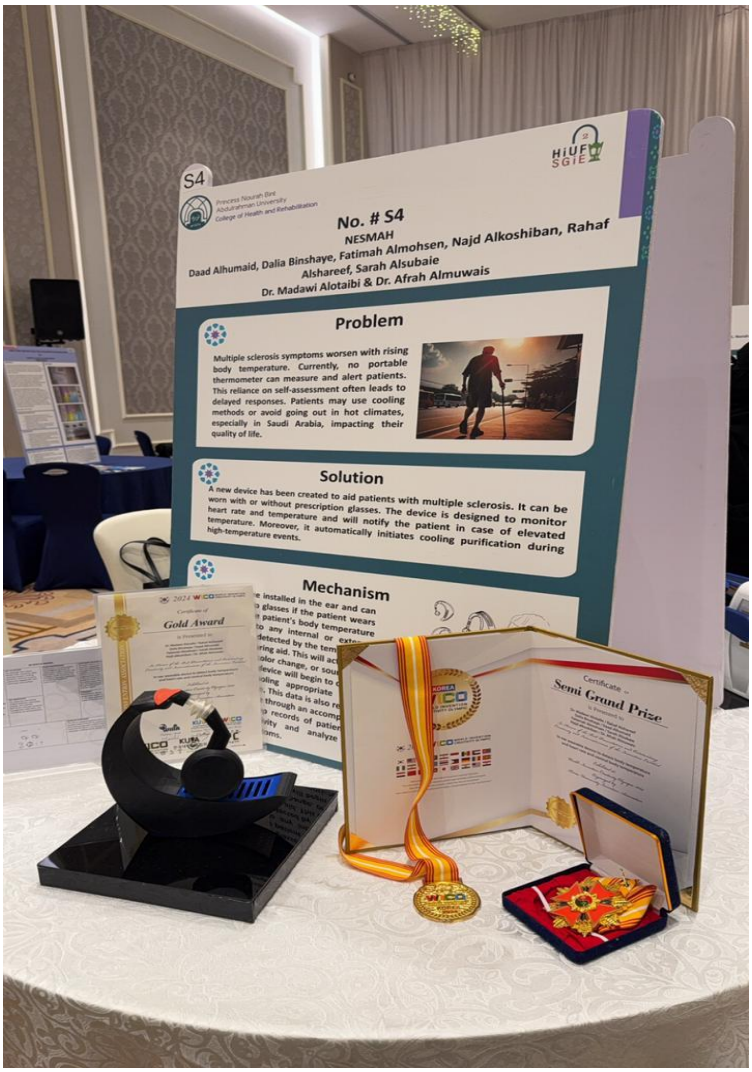
S4
Princess Nourah Bint Abdulrahman University
College of Health and Rehabilitation
HiUF SGIE
No. # S4
NESMAH
Daad Alhumaid, Dalia Binshaye, Fatimah Almohsen, Najd Alkoshiban, Rahaf
Alshareef, Sarah Alsubaie
Dr. Madawi Alotaibi & Dr. Afrah Almuwais
Problem
Multiple sclerosis symptoms worsen with rising body temperature. Currently, no portable thermometer can measure and alert patients. This reliance on self-assessment often leads to delayed responses. Patients may use cooling methods or avoid going out in hot climates, especially in Saudi Arabia, impacting their quality of life.
Solution
A new device has been created to aid patients with multiple sclerosis. It can be worn with or without prescription glasses. The device is designed to monitor heart rate and temperature and will notify the patient in case of elevated temperature. Moreover, it automatically initiates cooling purification during high-temperature events.
Mechanism
Certificate of
Gold Award
Certificate of
Semi Grand Prize