

Paralyzed person to kick off world cup

June 12 2014



Robotic 'suit' with artificial skin will put person's intention to kick the ball into motion, researchers explain.

(HealthDay)—A paralyzed person who will be strapped into a robotic "suit" with artificial skin will take the first kick-off of the World Cup in Brazil when the tournament starts Thursday.

Eight Brazilians who are paralyzed from the waist down have spent months training to use what scientists call an "exoskeleton," according to the Walk Again Project, an [international collaboration](#) of more than 100 scientists.

The robotic system works by reading electrical activity in the brain about a person's intention to make a movement—such as to take a step and kick a ball—and translating that into action. The system also has sensitive [artificial skin](#) that gives users the feeling of touching the ground.

The artificial skin was created by a team at the Institute for Cognitive Systems at the Technical University of Munich, Germany. The institute is led by Gordon Cheng.

"I think some people see the World Cup opening as the end [of the project], but it's really just the beginning," Cheng said in a university news release. "This may be a major milestone, but we have a lot more work to do."

He regards the use of the exoskeleton to kick off the World Cup as a public demonstration of what science can do for people.

"Also, I see it as a great tribute to all the patients' hard work and their bravery," Cheng added.

More information: The U.S. National Library of Medicine has more about [paralysis](#).

Copyright © 2014 [HealthDay](#). All rights reserved.

Citation: Paralyzed person to kick off world cup (2014, June 12) retrieved 24 April 2024 from https://medicalxpress.com/news/2014-06-paralyzed-person-world-cup_1.html

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--