

A patient wears a step-width monitor to keep proper space between the leds. Stroke victims have a noor base of support because they keep their legs too close together.



Dr. Alex Aruin (right), executive director of the Motion Analysis Laboratory in Wheaton, tests Mac McInerney, as carneras and electrodes record motion at the facility on the campus of Marianjoy Hospital and Rehabilitation Center.

Doctors muscle in on disabilities

By Rarbara Sherlock

Dr. Alexander Arnin stood on a small platform. He grasped and then dropped a small weighted

"We want to simulate a challenging situation to see how a nationt's central ner vous system reacts," Aruin said of the experiment which involves electrodes attached to muscle points. "If they're neurologically diseased patients, they may not react properly, they

may lose their balance, they may fall." Then balancing on a tilt board, a seesaw-like device.

Armin continued "If I balance like this it's telling me that I need to adjust" he said. "If my cen-

Wheaton Motion Analysis Lab is helping uncover treatments

tral nervous system is healthy, it may do it, but if it isn't and I can't adjust. I may fall."

Arnin is executive director of the Motion Analysis Laboratory, a research facility that opened in March on the campus of Marianjoy Hospital and Rehabilitation Center in Wheaton, Such labs exist at major universities, but it is rare for one to exist at a non-academically

affiliated hospital. The lab is devoted to movement, especially the movement of people, and the research conducted there is intended to ease the hunden of those who cannot

It is a collaboration between the Rehabilitation Foundation Inc. and Paha-

hf ink The Rehabilitation Foundation Inc. is a not-for-profit foundation established by Marianiov Hospital to conduct medical rehabilitation research and educational

programs. RehabLink is a recently formed umbrella network consisting of the sub-acute care, day and outpatient services provided at Mid.

west sites as well as the inpatient services provided

at Marianiov Aruin is an internation ally recognized biomechanist and the foundation's senior research scientist. In the 1970s and '80s, before coming in 1992 to the United States from Russia. he was employed at the Moscow Institute of Plectronical Engineering He was assistant professor of its sport science department and as professor and director of its occupational bio-

mechanics laboratory Before joining the foundation last year, Aruin was an assistant professor at Rosh. Presbyterian-St. Luke's

Medical College and later a senior scientist at Pennsyl-See Morrow Page 2



record and monitor a patient's posture at the Motion Analysis Laboratory, where normal and abnormal movement of humans is studied.