

Over the past two years Movendo Technology has been able to complete a great number of clinical studies on hunova with a 360° coverage of the three main areas of orthopaedics, neurology and geriatrics. This is thanks to the work of our main clinical partners with which we are collaborating.

## **2018**

**Evaluation and rehabilitation training with hunova robotic system for the recovery of dynamic postural stability: open randomized interventional protocol, on patients after ACL surgical reconstruction. XLVI SIMFER National Congress, (20-23 September 2018, Ancona).**

Francesco Vallone, Guido Damiani, Maria Laura D'Angelo, Alice De Luca, Valentina Squeri, Lorenzo De Michieli, Jody Alessandro Saglia, Carlo Sanfilippo, Natalia Corrieri, Claudia Giorgini, Paola Aguzzoli, Gabriele Carnevali, Valentina Garofalo, Rinzivillo Francesco, Mazzola Claudio (Genoa)

**Dynamic postural evaluation and proprioceptive training with hunova: preliminary results in a RCT study in patients with ambulatory deficit following traumatic lesions of lower limbs. XLVI SIMFER National Congress, (20-23 September 2018, Ancona).**

Elisa Taglione, Assunta Graziano, Maria Laura D'Angelo, Valentina Squeri, FD'Angelo, E. De Marco, R. Filippetti, F. Pasqualetti, A. Rapalli, Jody Alessandro Saglia, Carlo Sanfilippo, Matteo Laffranchi, Paolo Catitti, Lorenzo De Michieli (Volterra PI)

**Efficiency of a robotic treatment focused on balance and core stability in patients with Parkinson: a pilot study. XLVI SIMFER National Congress, (20-23 September 2018, Ancona).**

Claudia Giorgini, Francesco Vallone, Paola Crea, Alice De Luca, Valentina Squeri, Natalia Corrieri, Paola Aguzzoli, Alberto Cella, Camilla Prete, Barbara Senesi, Angela Giorgeschi, Jody Saglia, Carlo Sanfilippo, Alberto Pilotto (Genoa)

**Evaluation of static and dynamic balance with hunova robotic system in post-stroke. XLVI SIMFER National Congress, (20-23 September 2018, Ancona).**

Giovanni Cannaviello, Chiara Lorenzon, Chiara Giovanzana, Maria Colombo, Marina Gaffuri, Eleonora Guanziroli, Franco Molteni (Costa Masnaga LC)

**Utilization of the robotic platform for balance training in the upper motor neuron syndrome. XLVI SIMFER National Congress, (20-23 September 2018, Ancona).**

Alessandro Specchia, Emanuela Brambilla, Maurizio Cazzaniga, Laura Terenghi, Eleonora Guanziroli, Franco Molteni (Costa Masnaga LC)

**Robotic evaluation of balance in elderly patients: correlation with the functional parameters. XLVI SIMFER National Congress, (20-23 September 2018, Ancona).**

Francesco Vallone, Valentina Squeri, Alice De Luca, Alberto Cella, Giacomo Siri, Ekaterini Zigoura, Angela Giorgeschi, Erica Tavella, Matteo Puntoni, Mara Avella, Valentina Garofalo, Paola Aguzzoli, Lorenzo De Michieli, Jody Saglia, Carlo Sanfilippo, Pilotto Alberto (Genoa)

**Robotic evaluation of fall risk in older people: results on trunk parameters in static and dynamic balance conditions by hunova robot. 12TH ISPRM WORLD CONGRESS – ISPRM (08 - 12 July 2018, Paris).**

Squeri V., De Luca A., Vallone F., Cella A., Siri G., Zigoura E., Giorgeschi A., Tavella E., Puntoni M., Avella M., Garofalo V., Aguzzoli P., De Michieli L., Saglia J., Sanfilippo C., Pilotto

**Proprioceptive and motor training using the high performance robotic device Hunova: protocol of a randomized, controlled trial in patients with lower limb post-traumatic conditions. 12th ISPRM WORLD CONGRESS – ISPRM (08 - 12 July 2018, Paris).**

Taglione E.

**The use of the robotic device Hunova® as a rehabilitation tool for functional balance in individuals with Spinal Cord Injury. 12th ISPRM WORLD CONGRESS – ISPRM (08 - 12 July 2018, Paris).**

Leo A., Zarbo M., Cassinis A., Spinelli M.

**Robotic evaluation with Hunova in older people: correlation with the level of physical activity. XXXII SIGOT National Congress (3-5 May 2018, Rome).**

De Luca A., Senesi B., Squeri V., Cella A., Vallone F., Giorgeschi A., Zigoura E., Floris A.R., Pinna A., Vigo M., Guerrero K.L.Q., Tavella E., Avella M., Garofalo V., De Michieli L., Saglia J., Sanfilippo C., Pilotto

**Robotic evaluation of fall risk in older people: results on trunk parameters in static and dynamic balance conditions by Hunova robot. XXXII SIGOT National Congress (3-5 May 2018, Rome).**

Cella A., Squeri V., Vallone F., De Luca A., Siri G., Zigoura E., Giorgeschi A., Tavella E., Floris A.R., Pinna A., Vigo M., Guerrero K.L.Q., Puntoni M., Garofalo V., Aguzzoli P., De Michieli L., Saglia J., Sanfilippo C., Pilotto A.

**Robotic evaluation with Hunova in older people: correlation with Short Physical Performance Battery (SPPB). XXXII SIGOT National Congress 2018 (3-5 May 2018, Rome).**

Squeri V., Zigoura E., De Luca A., Vallone F., Senesi B., Giorgeschi A., Floris A.R., Pinna A., Vigo M., Guerrero K.L.Q., Tavella E., Avella M., Garofalo V., De Michieli L., Saglia J., Sanfilippo C., Cella A., Pilotto

**Hypothetical use of the robotic device hunova® for the evaluation and training of patients with medullary lesion.**

**XVIII SIMS National Congress (10-12 May 2018, Florence).**

Leo A., Zarbo M., Cassinis A., Pometto D., Re L., Bianocni T., Gambirasio C., Spinelli M.

## **2017**

**Fall risk assessment in elderly people using hunova, a robotic rehabilitation device. Osteoporosis International, 2017, vol. 28 (SUPPL 1), (no. 127), pp. S425-S425. DOI <https://doi.org/10.1007/s00198-017-3950-2>**

Squeri V., Cella A., Saglia J.A., Giusti A., Prete C., Vallone F., Senesi B., Zigoura E., Tavella E., Ciaccia L., Avella M., Garofalo V., Aguzzoli P., Sanfilippo C., Pilotto A.

**Usability in clinical practice of hunova, a new robotic rehabilitation device. 31° SIGOT National Congress (8-9 June 2017, Genoa).**

Squeri V., Bei G., Ciaccia L., Lino M., Sanfilippo C., Saglia J., Ungaro S., Ianes A.

**Fall Risk Assessment in elderly people using hunova, a robotic rehabilitation device. 31° SIGOT National Congress (8-9 June 2017, Genoa).**

Squeri V., Cella A., Deluca A., Saglia J., Giusti A., Prete C., Vallone F., Senesi B., Zigoura E., Tavella E., Ciaccia L., Avella M., Garofalo V., Aguzzoli P., Sanfilippo C., Pilotto A.

## **2016**

**Testing of the ARBOT robotic device in ankle rehabilitation following fracture injuries: results of a randomized controlled clinical trial. 44° SIMFER National Congress (23-26 October 2016, Bari).**

Taglione E., De Marco E., Pasqualetti F., Rapalli A., Squeri V., Masia L., Caldwell D. G., Catitti P., Saglia J. A.

## **2015**

**Ankle rehabilitation using the high-performance robotic device IIT-ARBOT: study protocol and preliminary results. 9th World Congress of the International Society of Physical and Rehabilitation Medicine, vol. J Rehabil Med, (no. Suppl 54), (19-23 June 2015, Berlin)**

Taglione E., De Marco E., Pasqualetti F., Rapalli A., Squeri V., Masia L., Caldwell DG., Catitti P., Saglia J.



Orthopedics



Neurology



Geriatrics