



EDITORIAL

THE ITALIAN CONSENSUS CONFERENCE ON PAIN IN NEUROREHABILITATION –
PART ITime for a Consensus Conference on
pain in neurorehabilitation

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on behalf of the Italian Consensus Conference on Pain in Neurorehabilitation (ICCPN)

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Pain has a heavy burden in the general population and epidemiological data indicate that moderate to severe chronic pain occurs in 19% of adult Europeans, seriously affecting the quality of their social and working lives.¹ Despite the notion that pain is frequent in patients undergoing neurorehabilitation, information on its prevalence, severity, and impact in this context are largely lacking.² Among diseases that represent common target for rehabilitation care, painful conditions, such as back pain and arthritis, are the leading causes of economic and social burden,³ but the impact of pain in other neurological diseases that frequently require neurorehabilitation, such as, *e.g.*, stroke, Parkinson's disease, and multiple sclerosis, has been only partially explored.⁴

There is a growing number of guidelines on pain management, such as those on the assessment and treatment of neuropathic pain,⁵ but they are often blinded to the specificities and complexity of the rehabilitation setting. At variance, the scenario for guidelines on pain in neurorehabilitation is discouraging. A PubMed search launched in May 2016 with the search string “(((rehabilitation [Title/Abstract] OR neurorehabilitation [Title/Abstract])) AND pain [Title/Abstract]) AND guidelines [Title/Abstract]” yielded 344 results. Analysis of the

titles and abstracts of these 344 items showed 24 meta-analyses or systematic reviews, mainly focusing on a single or few outcome measures, and some guidelines, expert opinions or consensus statements on orthopedic and sports medicine conditions (N.=41), osteoarthritis and rheumatologic conditions (N.=17), low back pain and neck pain (N.=24), mixed musculoskeletal conditions (N.=6), oncological pain (N.=4), pelvic pain (N.=3), geriatric pain (N.=2), mixed pain conditions (chronic non-malignant pain, N.=4; complex regional pain syndrome, N.=3; pain associated with burns, N.=2; chronic pain in people undergoing torture, N.=2; fibromyalgia, N.=1; post-operative pain, N.=1; abdominal pain, N.=1), but only few of them dealt with neurological conditions (stroke, N.=4; spasticity, N.=2; spinal cord injury, N.=2, mild traumatic brain injury, N.=1), and pain was often a secondary outcome measure.

Reasons for this paucity of information on pain in neurorehabilitation might include the higher importance given to other outcomes, such as motor, language or cognitive ones, in the context of neurorehabilitation, and the methodological issues in designing and conducting a randomized controlled trial (RCT) in rehabilitation.⁶ These issues include the difficulties in designing

true sham control conditions, in defining homogeneous patient groups, and in keeping equal duration and intensity of treatments among different centers.^{6,7}

To overcome the scanty information on pain in the setting of neurorehabilitation, the Italian Society of Neurorehabilitation (*Società Italiana di Riabilitazione Neurologica*) and the Italian Society of Physical and Rehabilitative Medicine (*Società Italiana di Medicina Fisica e Riabilitativa*) in 2013 promoted the Italian Consensus Conference on Pain in Neurorehabilitation (ICCPN), with a panel of experts representing the main Italian scientific societies that were interested or dealt with neurology, (neuro)rehabilitation, and/or pain.⁶ We favored the Consensus Conference approach⁸ to a systematic review, because we were aware that sound RCT evidence lacks for most rehabilitative treatments of pain, and the former format allows the inclusion of evidence from experimental, observational, case-control, and other types of studies, and the opinion of experts.⁶ The ICCPN methodology was derived from previous literature⁷⁻⁹ and has been reported in detail elsewhere.⁶

After many months of work and the involvement of a large number of experts, the conclusions of the ICCPN will be published in two special sections of the *European Journal of Physical and Rehabilitation Medicine*. The first one, in the present issue, is composed by three articles and will deal with some general questions, including the diagnosis and assessment,¹⁰ the role of sex and psychosocial factors,¹¹ and the pharmacological and non-pharmacological strategies in the integrated approach to pain in neurorehabilitation.¹² The second special section will be published in the next issue of the Journal and will treat questions related to specific diseases and conditions, including: stroke, multiple sclerosis, cerebral palsy, spinal cord injury, spasticity, movement disorders, motor neuron disease, chronic disorders of consciousness, dementia, oncology and neurooncology, neuroinfectious disease, neuromuscular disorders and neuropathies, deafferentation and phantom limb pain, headache, low back pain, and other nociceptive and mixed pain conditions.

We hope that the conclusions and recommendations of the ICCPN may both offer practical and useful information on how to deal with pain in neurorehabilitation, and represent the basis for future high-quality studies on this topic.⁶

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Funding.—Support for this study was kindly provided through unrestricted grants by Allergan and Grunenthal.

Conflicts of interest.—The authors certify that there is no conflict of interest with any financial organization regarding the material discussed in the manuscript.

Acknowledgments.—The following Authors and Collaborators, who are listed in alphabetical order, contributed to the work of the Italian Consensus Conference on Pain in Neurorehabilitation:

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Cantarella,¹⁴ Augusto Tommaso Caraceni,¹⁵ Roberto Carone,¹⁶ Elena Carraro,¹⁷ Roberto Casale,¹⁸ Paola Castellazzi,¹⁰ Gianluca Castelnovo,^{19,20} Adele Castino,²¹ Monica Cella,²² Rosanna Cerbo,²³ Adriano Chiò,¹³ Cristina Ciotti,¹⁴ Carlo Cisari,²⁴ Daniele Coraci,²⁵ Elena Dalla Toffola,^{26,27} Giovanni Defazio,²⁸ Roberto De Icco,^{2,4} Ubaldo Del Carro,²⁹ Andrea Dell'Isola,²⁴ Antonio De Tanti,³⁰ Mariagrazia D'Ippolito,⁷ Elisa Fazzi,^{31,32} Angela Federico,¹⁰ Adriano Ferrari,³³ Sergio Ferrari,¹⁰ Francesco Ferraro,³⁴ Fabio Formaglio,¹⁵ Rita Formisano,⁷ Simone Franzoni,³⁵ Francesca Gajofatto,¹⁰ Marialuisa Gandolfi,¹⁰ Barbara Gardella,²⁷ Pierangelo Geppetti,³⁶ Alessandro Giammo,¹⁶ Raffaele Gimigliano,³⁷ Emanuele Maria Giusti,²⁰ Elena Greco,¹⁰ Valentina Ieraci,³⁸ Marco Invernizzi,²⁴ Marco Jacopetti,³⁹ Iwona Jedrychowska,⁴⁰ Marco Lacerenza,⁴¹ Silvia La Cesa,⁴² Davide Lobba,¹⁰ Francesca Magrinelli,¹⁰ Silvia Mandrini,²⁶ Umberto Manera,¹³ Gian Mauro Manzoni,^{19,20} Paolo Marchettini,⁴³ Enrico Marchioni,² Sara Mariotto,¹⁰ Andrea Martinuzzi,¹⁷ Marcella Masciullo,⁷ Susanna Mezzarobba,⁴⁴ Danilo Miotti,⁴⁵ Angela Modenese,¹⁰ Marco Molinari,⁷ Salvatore Monaco,¹⁰ Giovanni Morone,⁷ Rossella Nappi,^{26,27} Stefano Negrini,^{5,32} Andrea Pace,⁴⁶ Luca Padua,^{5,47} Emanuela Pagliano,⁴⁸ Valerio Palmerini,²³ Stefano Paolucci,⁷ Costanza Pazzaglia,⁵ Cristiano Pecchioli,⁵ Giada Pietrabissa,²⁰ Alessandro Picelli,¹⁰ Andrea Polli,¹ Carlo Adolfo Porro,⁴⁹ Daniele Porru,²⁷ Marcello Romano,⁵⁰ Laura Roncari,¹⁰ Riccardo Rosa,²³ Marsilio Saccavini,⁵¹ Paola Sacerdote,⁵² Giorgio Sandrini,^{2,4} Donatella Saviola,³⁰ Angelo Schenone,⁵³ Vittorio Schweiger,¹¹ Giorgio Scivoletto,⁷ Nicola Smania,¹⁰ Claudio Solaro,²² Vincenza Spallone,⁵⁴ Isabella Springhetti,⁴⁰ Stefano Tamburin,¹⁰ Cristina Tassorelli,^{2,4} Michele Tinazzi,¹⁰ Rossella Togni,²⁶ Monica Torre,⁷ Riccardo Torta,³⁸ Marco Trabalesi,⁷ Erika Trabucco,²² Marco Tramontano,⁷ Andrea Truini,⁴² Valeria Tugnoli,⁵⁵ Andrea Turolla,¹ Massimiliano Valeriani,⁵⁶ Gabriella Vallies,¹⁰ Elisabetta Verzini,¹⁰ Mario Vottero,¹⁶ Paolo Zerbinati.⁵⁷

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Article first published online: July 12, 2016.

(Cite this article as: Sandrini G, Tamburin S, Paolucci S, Boldrini P, Saraceni VM, Smania N; Italian Consensus Conference on Pain in Neurorehabilitation (ICCPN). Time for a Consensus Conference on pain in neurorehabilitation. Eur J Phys Rehabil Med 2016;52:714-6)