



June 2022

Welcome to the International Confederation of Cardiorespiratory Physical Therapists (ICCrPT) newsletter: June 2022

Meet the current Executive Committee

ICCrPT Executive Committee (2019 to 2023):

President: Brenda O'Neill (United Kingdom)

Vice President: Karin Wadell (Sweden)

Secretary: Shirley Ngai (Hong Kong)

Treasurer: Alison Lupton-Smith (South Africa)

Members (in alphabetical order): Anna Christakou (Greece), Andreas Freund (Germany), Anri Human (South Africa), Kentaro Kamiya (Japan), Tania Larsen (Canada), Harriet Shannon (United Kingdom)

Please contact the executive committee via our website at info@cardioresp.physio

The executive committee member highlighted in this edition is

Anri Human (South Africa)



Anri Human qualified as a physiotherapist in 2003 and has been a lecturer since 2008. She completed her Master’s degree (2010) and Post-graduate Certificate in Higher Education (cum laude) in 2011 and obtained her PhD on the effect of inspiratory muscle training among children and adolescents with neuromuscular disease under the supervision of prof Brenda Morrow at the University of Cape Town (2021). Anri currently holds the position of full-time lecturer (Paediatrics) in the Physiotherapy department of the University of Pretoria. She has presented at numerous local and international congresses, research days and workshops and supervises research projects for undergraduate as well as postgraduate physiotherapy students. She has also published in national and international peer reviewed journals and acts as peer reviewer for several medical and physiotherapy journals. Anri has been involved in collaborative efforts with international centers and experts through events such as European Neuromuscular Centre (ENMC) and Translational Research in Europe-Assessment and Treatment of Neuromuscular Diseases (TREAT-NMD) workshops. Her awards include best poster prizes at the WCPT international congress and Southern Methodist University (SMU Research Day (2017); International Congress of Neuromuscular Diseases (ICNMD) in Austria (2018); winner of the Three Minutes Thesis (3MT) presentation competition at University of Cape Town (UCT) (2017) as well as national 3MT winner and People’s choice awards (2018).

She is involved in the executive committee of the Cardiopulmonary Special Interest Group (CPRG) of the South African Society of Physiotherapy, is a member of TREAT-NMD and the congress committee (2019; 2022), director of Myalgic Encephalomyelitis Chronic Fatigue Syndrome Association and serves as a member of the executive committee of the Muscle Dystrophy Foundation of South Africa. As captain of the Akasia running club and ambassador for “Jason’s journey with Duchenne” she has also been privileged to raise awareness and much needed funds for persons with neuromuscular disease.

Upcoming Congresses

- 3rd International conference on Respiratory Disease and Care 24-25 June, New York, USA (face to face)
<https://www.meetingsint.com/conferences/respiratorydisease>
- 6th International Scientific Meeting on Dyspnea. 13-15 July, Oxford, UK
<https://www.brookes.ac.uk/bms/about/events/dyspnea-2022/>
- 11th Congress of the World Federation of Pediatric Intensive & Critical Care Societies (WFPICCS) 12-16 July (virtual)
<https://wfpiccs.org/wfpiccs-2022/>
- European Society of Cardiology (ESC) 26-29 August 2022 in Barcelona (face to face and virtual)
https://www.escardio.org/Congresses-&-Events/ESC-Congress/Registration?gclid=CjwKCAjw7cGUBhA9EiwArBAvolf3QXk0OjXcjJtZnWps5YqGOBO-ckpNM1ZZQvHAab0c68dYs0ErjRoCIK0QAvD_BwE
- International Conference on Prehypertension, Hypertension and Cardio Metabolic Syndrome (ICPHCMS) 30-31 August in Budapest, Hungary (virtual)
<https://waset.org/prehypertension-hypertension-and-cardio-metabolic-syndrome-conference-in-august-2022-in-budapest>
- The European Respiratory Society international congress 4-6 September in Barcelona, Spain (face to face and virtual)
<https://www.ersnet.org/congress-and-events/congress/>
- The South African Society of Physiotherapy congress 16-18 September Stellenbosch, South Africa (face to face and virtual)
<https://world.physio/event/south-african-society-physiotherapy-sasp-congress>
<https://allevents.eventsair.com/saphysio/>
- The 77th Brazilian Congress of Cardiology together with the World Congress of Cardiology, organized by the Brazilian Society of Cardiology in partnership with the World Heart Federation. 13-15 October Rio De Janeiro, Brazil (face to face and virtual)
<https://world-heart-federation.org/world-congress-of-cardiology/>

ICCrPT Member Organisation Focus

The Japanese Society of Cardiovascular and Respiratory Physical Therapy

The Japanese Society of Cardiovascular and Respiratory Physical Therapy comprises of 2 independent societies: the Japanese Society of Cardiovascular Physical Therapy and the Japanese Society of Respiratory Physical Therapy.

The Japanese Society of Cardiovascular Physical Therapy

The main activities of this society include the following: conducting academic meetings and workshops, formulating guidelines, and facilitating academia-society led registry research.



Board members of the Japanese Society of Cardiovascular Physical Therapy
(May 24th, 2022)

Recent Activities

a) Registry Research Projects

This aim of this registry is to clarify the 3 following aspects in elderly patients with heart failure:

- (1) The prevalence of frailty in those receiving cardiovascular physical therapy.
- (2) The prevalence of hospital acquired disability.
- (3) Investigate the prognosis and its related factors.

Japan has the highest aging population in the world. Prevalence of cardiovascular disease

increase with age, and many older patients with heart failure have frailty; however, large-scale nationwide surveys have not yet been conducted to determine the prevalence and prognostic impact of frailty in patients with heart failure. Approximately 100 facilities throughout Japan are participating in this registry. As of 2022, more than 8,000 patients were enrolled.

b) Academic meetings

Yearly academic meetings are usually conducted. We have not conducted in-person meetings in the last 3 years; however, we are planning to conduct a hybrid format (in-person and virtual) meeting in September 2022. Approximately, 70–100 abstracts are presented each year, and a variety of symposia and educational lectures are planned. Some of the topics of this year's symposia are listed below. International sessions are also conducted, and overseas-participants are encouraged.

Introduction of the Annual Scientific Meeting in 2022

Symposium and educational lectures

- *Cardiovascular physical therapy in the era of minimally invasive surgery
- *Physical therapy in Cardio-Oncology: What is Cardio-Oncology Rehabilitation (CORE)?
- * Expert clinical tips learned through videos 1: Exercise therapy for early weaning from the ICU
- *SNS and Diversity Promotion Committee Project: Promoting the activities of female physical therapists - issues and prospects at the Japanese Society of Cardiovascular Physical therapy
- *Registry Committee Project: Interim analysis report of the survey results on frailty in patients with chronic heart failure

c) Publication of the official journal

The Journal of Japanese Cardiovascular Physical Therapy (JCPT) is being published as a free-access online journal on our web page since 2022. (<https://www.jscvpt.com/>)

The Japanese Society of Respiratory Physical therapy

The main activities of this society include the following: conducting academic conferences

and workshops, registry research projects, and journal publication.



Board members of the Japanese Society of Respiratory Physical Therapy (photographed in 2017)

Recent Activities

a) Registry Research Projects

Led by the Research Promotion Committee, the Society is conducting 2 registry-based studies as follows:

[\[Novel intervention strategy for chronic respiratory failure complicated by frail / sarcopenia\]](#)

It is assumed that a large proportion of Japanese patients with COPD are affected by complications of frailty and sarcopenia (muscle loss), mainly due to advanced age, compared to those in Europe and the United States; however, the details of these complications have not yet been elucidated. In addition, nationwide surveys have not been conducted to assess the physical characteristics of patients with COPD complicated by frailty and sarcopenia. The aim of this study is to clarify the pathophysiology and prognosis of frailty and sarcopenia in Japanese patients with COPD through a large-scale survey.

[\[Prospective observational study of the registry of rehabilitation cases of patients recovering from coronavirus disease \(COVID-19\)\]](#)

Currently, there is no registry for patients who have recovered from COVID-19, nor is there a case series study of those who underwent rehabilitation, in Japan. Moreover, the characteristics, progress, and effects of physical therapy have not been elucidated in patients who have undergone physical therapy (rehabilitation)

after recovery from COVID-19. Therefore, we are conducting a large-scale survey on recovery of physical function from COVID-19 to clarify the pathophysiology and prognosis, and to provide basic data on medical fees for physical therapy.

b) Academic conference

Yearly academic meetings are usually conducted, and in September 2022 we plan to conduct a hybrid format meeting, including virtual participation. Approximately, 80–100 abstracts are presented every year. An English session will be conducted; hence, overseas participants are encouraged. There will be a variety of symposia and educational lectures, and some of this year's topics are listed below:

[Introduction to the 2022 Annual Scientific Meeting](#)

[Special lectures](#)

Theme: Composing Spontaneous Breathing Educational Lectures

Theme: Respiratory physical therapy and ethics Symposium 1

Theme: What is needed now to improve physical function in respiratory diseases? ~ Clinical features and countermeasures ~

1. Chronic obstructive pulmonary disease
2. Interstitial lung disease
3. Perioperative surgery
4. Post-intensive care syndrome

Symposium 2

The future of respiratory physical therapy

1. Transition of respiratory physical therapy
2. Challenges toward standardization of respiratory physical therapy for chronic respiratory failure
3. Challenges toward standardization of respiratory physical therapy for acute respiratory failure
4. Prospects for respiratory physical therapy in the future

c) Publication of the official journal

The Journal of Respiratory Physical Therapy (JRPT) is being published as a free-access online journal on J-STAGE (<https://www.jstage.jst.go.jp/browse/kokyurigakuryohogaku/list/-char/en>) since 2022 and the ISSN (International Standard Serial Number) has also been registered.

**ICCrPT RESOURCES TOWARDS
KNOWLEDGE TRANSFER**

Respiratory Journals

- European Respiratory Journal
<http://erj.ersjournals.com/>
- European Respiratory Review
- Thorax <http://thorax.bmj.com/>
- BMJ Open Respiratory Research
http://bmjopenrespres.bmj.com/?utm_source=Internal_ad%20&utm_medium=Banner&utm_campaign=20151012_BORR&utm_content=leadroad&utm_term=
- CHEST <http://journal.publications.chestnet.org/>
- BMC Pulmonary Medicine
<https://bmcpulmed.biomedcentral.com/>
- Respiratory Research <http://www.respiratory-research.com/>
- Respiratory Care <http://rc.rcjournal.com/>
- Respiratory Medicine
<http://www.resmedjournal.com/>
- Pediatric Pulmonology
<http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291099-0496/issues>
- Pediatric Critical Care Medicine
<http://journals.lww.com/pccmjournal/Pages/default.aspx>
- Journal Intensive Care Medicine
<https://uk.sagepub.com/en-gb/eur/journal/journal-intensive-care-medicine>
- Intensive Care Medicine
<http://icmjournal.esicm.org/index.html>

- Critical Care
<https://ccforum.biomedcentral.com/>
- The Lancet Respiratory medicine
<https://www.journals.elsevier.com/the-lancet-respiratory-medicine>
- COPD: Journal of COPD
<https://www.tandfonline.com/loi/icop20>

Why Join the ICCrPT?

What are the benefits of membership of the International Confederation of Cardiorespiratory Physical Therapy (ICCrPT)? This is an official sub-group of World Physiotherapy (WP) (previously known as WCPT).

WP subgroups are independent organisations in their own right. They have a specific area of interest, and promote the advancement of physical therapy in their area of specialty. More importantly, the international sub-group structure allows specialty physiotherapy groups to inform and contribute to the core business of WP. Without specialty sub-group representation at an international level, there is a risk that the specialty area interests may not be recognised or promoted. This is particularly true for the smaller sub-group organisations.

There are currently 14 official subgroups of WP:

- Acupuncture
- Aquatic
- Cardiorespiratory
- Electrophysical
- HIV/AIDS, oncology, hospice and palliative care
- Manual/musculoskeletal physiotherapy
- Mental Health
- Neurology
- Occupational health and ergonomics
- Older people
- Paediatrics
- Pelvic and women's health
- Private Practice
- Sports

The ICCrPT recognises that the continuity of the specialty cardiorespiratory sub-group in the short and long term is dependent on the continued support of the cardiorespiratory member organisations and associated members from around the globe who have already joined or are eligible to do so. Inherent in this support is an appreciation of the benefits of membership for the global cardiorespiratory community, and an understanding of how the existence of the ICCrPT will ensure continued Cardiorespiratory Physiotherapy representation at all levels within the World Physiotherapy. Specifically, these benefits include, but are not limited to:

1. Ensuring representatives of the *international cardiorespiratory physiotherapy community* are informing and contributing to **key World Physiotherapy platforms** including:
 - Policy and Standards
 - Policy Resources
 - Practice Resources
 - Education Resources
 - Global Health Resources
 - World PT Day Resources
 - International Campaigns
 - International Collaborations
 - Executive Management Boards
2. Ensuring that the *international cardiorespiratory physiotherapy community* is informing and contributing to **key international WP events** including:
 - Conference Planning Committees
 - International Scientific Committees
 - Abstract selection panels
 - International awards nomination and selection pathways
 - Conference prize nomination and selection pathways
 - The development and delivery of Cardiorespiratory themed focused symposium
 - The development and delivery of Cardiorespiratory themed pre and post congress courses
 - The inclusion of Cardiorespiratory themed networking sessions
3. Ensuring that the *international cardiorespiratory physiotherapy community* remain informed of, and supported in order to **access WP information sharing** including:-
 - Other professional networks
 - Other international speciality networks
 - WP information gateways
 - WP communication channels
 - The WP Experts database (DOVE)
 - WP press releases
 - WP social media
 - WP Toolkits
 - WP collated resources
 - Information about commercial partnerships
 - Publicity materials

Topical publications in Cardiorespiratory practice

The ICCrPT Knowledge Translation Committee has chosen to highlight the following 2022 publications relevant to Cardiorespiratory Physical Therapy Practice:

Asthma

- Oliveira JM, Spositon T, Cerci Neto A, Soares FMC, Pitta F, Furlanetto KC. Functional tests for adults with asthma: validity, reliability, minimal detectable change, and feasibility. *J Asthma*. 2022 Jan;59(1):169-177. doi: 10.1080/02770903.2020.1838540. Epub 2020 Nov 6. PMID: 33066708.
- Garagorri-Gutiérrez D, Leirós-Rodríguez R. Effects of physiotherapy treatment in patients with bronchial asthma: A systematic review. *Physiother Theory Pract*. 2022 Apr;38(4):493-503. doi: 10.1080/09593985.2020.1772420. Epub 2020 Jun 9. PMID: 32515632.

Bronchiectasis

- Lee AL, Tilley L, Baenziger S, Hoy R, Glaspole I. The Perceptions of Telehealth Physiotherapy for People with Bronchiectasis during a Global Pandemic-A Qualitative Study. *J Clin Med*. 2022 Feb 27;11(5):1315. doi: 10.3390/jcm11051315. PMID: 35268406; PMCID: PMC8911072.
- Jones T, O'Grady KF, Goyal V, Masters IB, McCallum G, Drovandi C, Lung T, Baque E, Brookes DSK, Terranova CO, Chang AB, Trost SG. Bronchiectasis - Exercise as Therapy (BREATH): rationale and study protocol for a multi-center randomized controlled trial. *Trials*. 2022 Apr 11;23(1):292. doi: 10.1186/s13063-022-06256-2. PMID: 35410363; PMCID: PMC8996596.

Cardiac

- Shahood H, Pakai A, Rudolf K, Bory E, Szilagy N, Sandor A, Zsofia V. The effect of preoperative chest physiotherapy on oxygenation and lung function in cardiac surgery patients: a randomized controlled study. *Ann Saudi Med*. 2022 Jan-Feb;42(1):8-16. doi: 10.5144/0256-4947.2022.8. Epub 2022 Feb 3. PMID: 35112592; PMCID: PMC8812159.
- Zhang X, Peng Y, Zhong F, Li S, Huang X, Huang Q, Chen L, Lin Y. Effects of

neuromuscular electrical stimulation on functional capacity and quality of life among patients after cardiac surgery: A systematic review and meta-analysis. *J Cardiol*. 2022 Feb;79(2):291-298. doi: 10.1016/j.jjcc.2021.09.019. Epub 2021 Oct 14. PMID: 34657773.

Cardiorespiratory

- Tutor A, Lavie CJ, Kachur S, Dinshaw H, Milani RV. Impact of cardiorespiratory fitness on outcomes in cardiac rehabilitation. *Prog Cardiovasc Dis*. 2022 Jan-Feb;70:2-7. doi: 10.1016/j.pcad.2021.11.001. Epub 2021 Nov 12. PMID: 34780726. Macha

COPD

- Cao M, Calmelat RA, Kierstead P, Carraro N, Stringer WW, Porszasz J, Casaburi R, Rossiter HB. A randomized, crossover, placebo controlled, double-blind trial of the effects of tiotropium-olodaterol on neuromuscular performance during exercise in COPD. *J Appl Physiol* (1985). 2022 May 1;132(5):1145-1153. doi: 10.1152/jappphysiol.00332.2021. Epub 2022 Mar 24. PMID: 35323052; PMCID: PMC9054255.
- Gelinias J, Harper M, Sasso J, Wright S, Melzer B, Agar G, Guenette J, duManoir G, Roman M, Rolf JD, Eves N. Phenotyping Cardiopulmonary Exercise Limitations in Chronic Obstructive Pulmonary Disease. *Front Physiol*. 2022 Feb 15;13:816586. doi: 10.3389/fphys.2022.816586. PMID: 35242051; PMCID: PMC8886157.
- Machado A, Barusso M, De Brandt J, Quadflieg K, Haesevoets S, Daenen M, Thomeer M, Ruttens D, Marques A, Burtin C. Impact of acute exacerbations of COPD on patients' health status beyond pulmonary function: A scoping review. *Pulmonology*. 2022 Jun 14;S2531-0437(22)00109-X. doi: 10.1016/j.pulmoe.2022.04.004. Epub ahead of print. PMID: 35715333.

Critical Care

- Tronstad O, Martí JD, Ntoumenopoulos G, Gosselink R. An Update on Cardiorespiratory Physiotherapy during Mechanical Ventilation. *Semin Respir Crit Care Med*. 2022 Apr 22. doi: 10.1055/s-0042-1744307. Epub ahead of print. PMID: 35453171.

CF

- Abrami M, Maschio M, Conese M, Confalonieri M, Salton F, Gerin F, Dapas B, Farra R, Adrover A, Milcovich G, Fornasier C, Biasin A, Grassi M, Grassi G. Effect of chest physiotherapy on cystic fibrosis sputum nanostructure: an experimental and theoretical approach. *Drug Deliv Transl Res.* 2022 Mar 14. doi: 10.1007/s13346-022-01131-8. Epub ahead of print. PMID: 35286625.

Health Service

- Pitkänen V, Linnosmaa I. Choice, quality and patients' experience: evidence from a Finnish physiotherapy service. *Int J Health Econ Manag.* 2021 Jun;21(2):229-245. doi: 10.1007/s10754-020-09293-z. Epub 2021 Jan 19. PMID: 33469804; PMCID: PMC8192355.

Lung cancer

- Lu HB, Liu X, Wang YQ, Cao HP, Ma RC, Yin YY, Song CY, Yang TT, Xie J. Active Cycle of Breathing Technique: A Respiratory Modality to Improve Perioperative Outcomes in Patients With Lung Cancer. *Clin J Oncol Nurs.* 2022 Apr 1;26(2):176-182. doi: 10.1188/22.CJON.176-182. PMID: 35302551.

Paediatric Pulmonary rehabilitation

- Donadio MVF, Cobo-Vicente F, San Juan AF, Sanz-Santiago V, Fernández-Luna Á, Iturriaga T, Villa Asensi JR, Pérez-Ruiz M. Is exercise and electrostimulation effective in improving muscle strength and cardiorespiratory fitness in

children with cystic fibrosis and mild-to-moderate pulmonary impairment?: Randomized controlled trial. *Respir Med.* 2022 May;196:106798. doi: 10.1016/j.rmed.2022.106798. Epub 2022 Mar 1. PMID: 35306386.

Pulmonary rehabilitation

- Michaelchuk W, Oliveira A, Marzolini S, Nonoyama M, Maybank A, Goldstein R, Brooks D. Design and delivery of home-based telehealth pulmonary rehabilitation programs in COPD: A systematic review and meta-analysis. *Int J Med Inform.* 2022 Mar 31;162:104754. doi: 10.1016/j.ijmedinf.2022.104754. Epub ahead of print. PMID: 35395474.
- Spielmanns M, Gloeckl R, Jarosch I, Leitl D, Schneeberger T, Boeselt T, Huber S, Kaur-Bollinger P, Ulm B, Mueller C, Bjoerklund J, Spielmanns S, Windisch W, Pekacka-Egli AM, Koczulla AR. Using a smartphone application maintains physical activity following pulmonary rehabilitation in patients with COPD: a randomised controlled trial. *Thorax.* 2022 Apr 21;thoraxjnl-2021-218338. doi: 10.1136/thoraxjnl-2021-218338. Epub ahead of print. PMID: 35450945.
- Tang CY, Lavercombe M, Southcott AM, Taylor NF, Blackstock FC. Access to pulmonary rehabilitation for people from culturally and linguistically diverse communities: A cohort study. *Health Soc Care Community.* 2022 Mar 29. doi: 10.1111/hsc.13807. Epub ahead of print. PMID: 35352435.

ICCrPT 



INTERNATIONAL CONFEDERATION OF
CARDIORESPIRATORY PHYSICAL THERAPISTS

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**World Confederation
for Physical Therapy**