



October 2022

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

Harriet Shannon



Dr Harriet Shannon is the programme lead for cardiorespiratory physiotherapy education at University College London (UCL) and an associate professor. She is vice-chair of the Association for Chartered Physiotherapists in Respiratory Care (ACPRC). Dr Shannon has been involved in postgraduate education for 18 years and has supervised over 80 MSc projects. She currently supervises three PhD students and four pre-doctoral students. In 2016 Dr Shannon was awarded Senior Fellowship of the Higher Education Academy in recognition of her innovative teaching techniques and use of digital technology to enhance teaching and learning.

Dr Shannon completed her own doctoral studies in 2011, with research based at Great Ormond Street hospital for children (London). Her research focused on the delivery of emergency physiotherapy services to patients in pediatric intensive care. She maintains contact with the research community as chair of the council for allied health professional research (CAHPR) regional hub forum and is on the editorial board for Physiotherapy and the Journal of Acute Care Physical Therapy.

ICCrPT Member Organisation Focus

German specialised working group (AG Herz-Kreislauf)



Due to the regulations in the German healthcare system we have no payment in physiotherapeutically measures concerning cardiorespiratory physiotherapy in outpatient care. So we only have few PT's active working in internal medicine. We find our colleagues in clinics and rehabilitation centers, not in private practice. The main interest of our school students is focused in orthopedic and neurological treatments.

The focus of our working group AG Herz-Kreislauf is the participation in national guidelines concerning cardiorespiratory physiotherapy and the scientific advisory board of Physio Deutschland. Actually we are 5 "active" organized members in our group.

Physio Deutschland with 32000 members is the biggest of 5 professional PT organizations in Germany. Statistical registered were 215.000 therapists in 2020.

Some therapists are organized in a special pulmonary working group, due to financial reasons (settlement basis). In PhysioDeutschland 15 PT's are organized as a working group.

The DIVI is the German most important association in intensive care medicine and emergency medicine. But the acting partners of this group (about 20 members) are not organized in typical professional associations. Since COVID19 we see an upcoming interest especially in ICU-treatment. But most of them are consumers, not co-workers.

The German college system regarding physiotherapy is in a startup phase. But hopefully we can recruit students as new members. Applied research is necessary in our future health system. Our actual DRG system only provides healthcare measures which promised a good payment. We are far from evidence based medicine.

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=leaderboard&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>

Research

King's College London has a brilliant funding opportunity for PhD candidates from China, in partnership with the country.

Information about the scheme based on last year is available at <https://www.kcl.ac.uk/study-legacy/funding/kings-china-scholarship-council-phd-scholarship-programme-k-csc>

News

Prof. Kentaro Kamiya, one of the members of the executive committee of ICCrPT, has been the President of the Japanese Society of Cardiovascular Physical Therapy since June 2022. JSCVPT currently has 243 professional members, 986 general members, and 3 student members. He is also a professor in the Department of Physical Therapy at Kitasato University, Japan and has published more than 130 scientific papers (in English) to date, including a representative research article, "Multidisciplinary Cardiac Rehabilitation and Long-Term Prognosis in Patients with Heart Failure", published in *Circulation Heart Failure* in 2020.

Please see below for his researcher page.
<https://researchmap.jp/kamiken.pt?lang=en>



Annual Members Forum

The International Confederation of Cardiorespiratory Physical therapists (ICCrPT) has an opportunity to connect with you through our Newsletter and Twitter feeds. We also meet at the World Physiotherapy Congress and take opportunities to share updates in cardiorespiratory practice, research and education. We would like to extend the opportunity to connect with ICCrPT members by reaching out to our members in the year when congress does not run. We plan to do this by hosting an online Members Forum.

This year we hosted our first Members Forum on Oct 12th 2022. We linked with the chairperson/a contact person of the cardiorespiratory interest group from as many of our member organisations as possible. We ran two sessions and welcomed colleagues from Japan, Hong Kong, UK, Taiwan, Norway, Sweden, Namibia, Greece, and Canada.

We connected, laughed, share practiced and had an opportunity to learn a little about each others cardiorespiratory work around the world. Some key areas that we included were: our role as cardiorespiratory physiotherapists working in hospitals and how we can extend this practice further into community/primary care settings; we discussed our clinical and research areas which span across paediatrics to elderly populations; and we discussed challenges and differences in practice in how we teach our area or practice. It was great to hear about the variety of our work across the globe and make connections.

Hope to see some of you again soon.

Brenda

Brenda O'Neill PhD, MCSP president ICCrPT



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

- Coulson E, Carpenter LM, Georgia TE, Baptist AP. Breathing exercises in older adults with asthma: a blinded, randomized, placebo-controlled trial. *J Asthma*. 2022 Jul;59(7):1438-1444. doi: 10.1080/02770903.2021.1936015. Epub 2021 Jun 14. PMID: 34044738.

Bronchiectasis

- Chang AB, Zacharasiewicz A, Goyal V, Boyd J, Alexopoulou E, Aliberti S, Bell L, Bush A, Claydon A, Constant C, Fortescue R, Hill AT, Karadag B, Powell Z, Wilson C, Grimwood K, Kantar A; other members of Child-BEAR-Net. Task Force report: European Respiratory Society statement for defining respiratory exacerbations in children and adolescents with bronchiectasis for clinical trials. *Eur Respir J*. 2022 Jun 21:2200300. doi: 10.1183/13993003.00300-2022. Epub ahead of print. PMID: 35728974.

Cardiac

- Tsai WJ, Wen YK, Cheng YY, Huang JL, Chen YW. Effectiveness of home-based telerehabilitation programs on functional capacity and cardiac function in elderly heart failure patients: A prospective longitudinal study. *Medicine (Baltimore)*. 2022 Jul 15;101(28):e29799. doi: 10.1097/MD.00000000000029799. PMID: 35838996.

Cardiorespiratory

- Roberts F, Cooper K. Development of a tool to assess core cardiorespiratory physiotherapy skills: a Delphi study. *Physiother Theory Pract*. 2022 Sep;38(9):1245-1253. doi:

10.1080/09593985.2020.1827467. Epub 2020 Oct 20. PMID: 33079571.

- Khalafi M, Sakhaei MH, Rosenkranz SK, Symonds ME. Impact of concurrent training versus aerobic or resistance training on cardiorespiratory fitness and muscular strength in middle-aged to older adults: A systematic review and meta-analysis. *Physiol Behav*. 2022 Oct 1;254:113888. doi: 10.1016/j.physbeh.2022.113888. Epub 2022 Jun 18. PMID: 35728627.

COPD

- Neşe A, Samancıoğlu Bağlama S. The Effect of Progressive Muscle Relaxation and Deep Breathing Exercises on Dyspnea and Fatigue Symptoms of COPD Patients: A Randomized Controlled Study. *Holist Nurs Pract*. 2022 Jul-Aug 01;36(4):E18-E26. doi: 10.1097/HNP.0000000000000531. PMID: 35708562.
- Peñailillo L, Valladares-Ide D, Jannas-Velas S, Flores-Opazo M, Jalón M, Mendoza L, Nuñez I, Diaz-Patiño O. Effects of eccentric, concentric and eccentric/concentric training on muscle function and mass, functional performance, cardiometabolic health, quality of life and molecular adaptations of skeletal muscle in COPD patients: a multicentre randomised trial. *BMC Pulm Med*. 2022 Jul 19;22(1):278. doi: 10.1186/s12890-022-02061-4. PMID: 35854255; PMCID: PMC9297587.
- Höglund J, Boström C, Sundh J. Six-Minute Walking Test and 30 Seconds Chair-Stand-Test as Predictors of Mortality in COPD - A Cohort Study. *Int J Chron Obstruct Pulmon Dis*. 2022 Oct 4;17:2461-2469. doi: 10.2147/COPD.S373272. PMID: 36217331; PMCID: PMC9547549.

Critical Care

- Rich J, Coman M, Sharkey A, Church D, Pawson J, Thomas A. A single center observational study of the incidence, frequency and timing of critical care physiotherapy intervention during the COVID-19 pandemic. *J Intensive Care Soc*. 2022 Aug;23(3):273-280. doi: 10.1177/1751143721991060. Epub 2021

Feb 9. PMID: 36033247; PMCID: PMC7873622.

- Puthuchery Z, Brown C, Corner E, Wallace S, Highfield J, Bear D, Rehill N, Montgomery H, Aitken L, Turner-Stokes L. The Post-ICU presentation screen (PICUPS) and rehabilitation prescription (RP) for intensive care survivors part II: Clinical engagement and future directions for the national Post-Intensive care Rehabilitation Collaborative. *J Intensive Care Soc.* 2022 Aug;23(3):264-272. doi: 10.1177/1751143720988708. Epub 2021 Feb 1. PMID: 36033242; PMCID: PMC9411763.

CF

- Lv D. A Meta-Analysis of the Effect of Exercise Rehabilitation Care on Cardiac Function in Patients with Chronic Heart Failure. *Contrast Media Mol Imaging.* 2022 Jul 4;2022:2507680. doi: 10.1155/2022/2507680. PMID: 35873666; PMCID: PMC9273468.

Lung cancer

- Ji H, Sha M, Ke Q, Huang H. The Perspectives and Lived Experience of Postoperative Patients with Lung Cancer Participating in a Home-Based Exercise Intervention. *Semin Oncol Nurs.* 2022 Aug;38(4):151235. doi: 10.1016/j.soncn.2021.151235. Epub 2021 Nov 22. PMID: 34819257

Paediatric rehabilitation

- Gurses HN, Ucgun H, Zeren M, Denizoglu Kulli H, Cakir E. Does the effect of comprehensive respiratory physiotherapy home-program differ in children with cystic fibrosis and non-cystic fibrosis bronchiectasis? *Eur J Pediatr.* 2022 Aug;181(8):2961-2970. doi: 10.1007/s00431-022-04509-5. Epub 2022 May 20. PMID: 35595860.

Pulmonary rehabilitation

- Burge AT, Malaguti C, Hoffman M, Shiell A, McDonald CF, Berlowitz DJ, Holland AE. Efficacy of Repeating Pulmonary Rehabilitation in People with COPD: A Systematic Review. *Int J Chron Obstruct Pulmon Dis.* 2022 Aug 17;17:1871-1882. doi: 10.2147/COPD.S368336. PMID: 35999942; PMCID: PMC9393021.
- Shiraishi M, Higashimoto Y, Sugiya R, Mizusawa H, Takeda Y, Fujita S, Nishiyama O, Kudo S, Kimura T, Chiba Y, Fukuda K, Tohda Y, Matsumoto H. Diaphragmatic excursion is correlated with the improvement in exercise tolerance after pulmonary rehabilitation in patients with chronic obstructive pulmonary disease. *Respir Res.* 2021 Oct 22;22(1):271. doi: 10.1186/s12931-021-01870-1. PMID: 34686189; PMCID: PMC8532083.
- Yang F, Gao L, Wang Q, Deng W, Gao W. Effect of exercise-based pulmonary rehabilitation in patients with bronchiectasis: A meta-analysis. *Respir Med Res.* 2022 May;81:100910. doi: 10.1016/j.resmer.2022.100910. Epub 2022 Apr 20. PMID: 35461014.



ICCrPT

INTERNATIONAL CONFEDERATION OF
CARDIORESPIRATORY PHYSICAL THERAPISTS

Breathe | Pump | Function



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