

Journal of Applied Research in Intellectual Disabilities

Volume 31 • Number 4 July 2018

Available online http://wileyonlinelibrary.com/journal/jar

The Journal of Applied Research in Intellectual Disabilities is indexed by MEDLINE (NLM) and covered fully in Current Contents®/ Social & Behavioural Sciences (CC®/S & BS), published by the Institute for Scientific Information, 3501, Market Street, Philadelphia, PA 19104, USA and appears in their Social SciSearch® online database and Research Alert® current awareness service. The journal is also abstracted in PsycINFO, the British Education Index, Social Work Abstracts, Sociological Abstracts, Social Services Abstracts, Worldwide Political Science Abstracts, Linguistics and Language Behavior Abstracts, E-psyche Psychology Database and Educational Research Abstracts.

WILEY



ISSN 1360-2322

Journal of Applied Research in Intellectual Disabilities

Volume 31 • Number 4 July 2018

Published for the British Institute of Learning Disabilities (BILD) by Blackwell Publishing



Diversity & Belonging: Celebrating Difference

Abstracts of the Fifth International IASSIDD Europe Congress 17–20 July, 2018, Athens

Contents

- 471 Plenary Presentations
- 474 Inclusion & Belonging
- 491 Collaborative Research
- 497 Family Quality of Life
- 606 Arts & Representation
- 10 History, Identity & Rights
- 515 Inclusive Education & Employment
- 529 Health & Behavioural Issues
- 569 Policy & Practice
- 589 Living with Disabilities
- 596 Parenting & Other Miscellaneous Topics
- 508 Demonstrations
- 610 Roundtables
- 616 Posters

WILEY bild

all about people



Journal of Applied Research in Intellectual Disabilities

Editors

Peter Langdon The Tizard Centre, University of Kent, Canterbury, Kent, CT2 7L5,UK e-mail: P.E.Langdon@kent.ac.uk

Chris Hatton Division of Health Research, Lancaster University Lancaster, Lancashire e-mail: chris.hatton@lancaster.ac.uk

Editorial Office

Patricia Clelland 74 White Lund Road, Heaton with Oxcliffe, Morecambe

Lancashire LA3 3DU e-mail: patriciaclelland@gmail.com

Associate Editors

Malin Broberg, Göteborg, Sweden Karen Bunning, Norwich, UK Dougal Hare, Manchester, UK Angela Hassiotis, London, UK Andrew Jahoda, Glasgow, UK David McConnell, Edmonton, Canada Jacqui Rodgers, Newcastle, UK Laurence Taggart, Jordanstown, UK Travis Thompson, Roseville, MN, USA Jonathan Weiss, Toronto, Canada

Book Review Editor

Philip Dodd St Michael's House Ballymun Road. Ballymun. Dublin 9. Republic of Ireland e-mail: phildodd@eircom.net

Editorial Board

Regi Alexander, Leicester, UK David Allen, Cardiff, UK Amaria Baghdadli, Montpellier, France Julie Beadle-Brown, Canterbury, UK Nigel Beail, Sheffield, UK Stephen Beyer, Cardiff, UK

Jan Blacher, Riverside, CA, USA Deb Carr, Cardiff, UK Tony Charman, London, UK

Isabel Clare, Cambridge, UK Sally Ann Cooper, Glasgow, UK Dave Dagnan, Cumbria, UK Philip W. Davidson, Rochester, NY, USA Keith McVilly, Victoria, Australia Bob Davis, Melbourne, Victoria,

Australia Philip Dodd, Ireland David Felce, Cardiff, UK Larraine Glidden, St. Mary's City,

Mike Guralnick, Seattle, WA, USA Richard Hastings, Coventry, UK Susan Haves, Sudney, NSW. Australia

Tamar Heller, Chicago, IL, USA

Matthew Janicki, Chicago, IL, USA Craig Kennedy, Nashville, TN, USA Mike Kerr, Cardiff, UK Martin Knapp, London, UK Biza Kroese, Birmingham, UK Giulio Lancioni, Bari, Italy Sue Leekam, Cardiff, UK

Bill Lindsay, Darlington, UK

Yona Lunsky, Ontario, Canada

Helen McConachie, Newcastle upon Tyne, UK Roy McConkey, Ulster, UK Peter McGill, Canterbury, UK Laura Lee McIntyre, Eugene, OR,

11SA

Patricia Minnes, Ontario, Canada Ghazala Mir. Leeds. UK Jo Moss, Birmingham, UK Chris Oliver, Birmingham, UK Trevor Parmenter, New South Wales, Australia

Helene Ouellete-Kuntz, Kingston, Ontario, Canada Paul Ramcharan, Victoria, Australia John Rose, Birmingham, UK

Roger Stancliffe, Sydney, Australia Peter Sturmey, New York, USA Frank Symons, Minneapolis, MN,

Vianne Timmons, Regina, Canada Stuart Todd, Cardiff, UK Jan Tossebro, Trondheim, Norway Jeremy Turk London 11K Lisa Wang, Chia-yi, Taiwan Jennifer Wishart, Edinburgh, UK

Journal of Applied Research in Intellectual Disabilities is an international, peer-reviewed journal that draws together findings derived from original applied research in intellec tual disabilities. The journal is an important forum for the dissemination of ideas to promote valued lifestyles for people with intellectual disabilities. It reports on research from the UK and overseas by authors from all professional disciplines. It is aimed at an international, multi-disciplinary readership.

The topics it covers include community living, quality of life, challenging behaviour, communication, sexuality, medication, ageing, supported employment, family issues, social networks, staff stress, staff training, epidemiology and service provision.

Theoretical papers are also considered, provided the implications for therapeutic action or enhancing quality of life are clear. Both quantitative and qualitative methodologies are welcomed. All original and review articles continue to undergo a rigorous

John Wiley & Sons Pte Ltd works with organizations (WHO, SOROS, INASP) to provide access to research for developing countries.

The Publisher, Society and Editors cannot be held responsible for errors or any consequences arising from the use of information contained in this journal; the views and opinions expressed do not necessarily reflect those of the Publisher, Society and Editors, neither does the publication of advertisements constitute any endorsement by the Publisher, Society and Editors of the products advertised.

Copyright © 2018 John Wiley & Sons Ltd. All rights reserved. No part of this publication may be reproduced, stored or transmitted in any form or by any means without the prior permission in writing from the copyright holder. Authorization to photocopy items for internal and personal use is granted by the copyright holder for libraries and other users registered with their local Reproduction Rights Organisation (RRO), e.g. Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923, USA (www.copyright.com), provided the appropriate fee is paid directly to the RRO. This consent does not extend to other kinds of copying such as copying for general distribution, for advertising or promotional purposes for republication, for creating new collective works or for resale. Permissions for such reuse can be obtained using the RightsLink "Request Permissions" link on Wiley Online Library. Special requests should be addressed to: permissions@wiley.com.

JARID is published in 6 issues per year. Institutional subscription prices for 2017 are:

Print & Online: US\$1373 (US), US\$1603 (Rest of World), €943 (Europe), £744 (UK). Prices are exclusive of tax. Asia-Pacific GST, Canadian GST and European VAT will be applied at the appropriate rates. For more information on current tax rates, please go to www.wileyonlinelibrary.com/tax-vat. The price includes online access to the current and all online back files to January 1st 2014, where available. For other pricing options, including access information and terms and conditions, please visit www.wileyonlinelibrary.com/access.

Delivery Terms and Legal Title

Where the subscription price includes print issues and delivery is to the recipient's address, delivery terms are Delivered at Place (DAP); the recipient is respons paying any import duty or taxes. Title to all issues transfers Free of Board (FOB) our shipping point, freight prepaid. We will endeavour to fulfil claims for missing or damaged copies within six months of publication, within our reasonable discretion and subject to availability.

Single issues from current and recent volumes are available at the current single issue price from cs-journals@wiley.com. Earlier issues may be obtained from Periodicals

Service Company, 351 Fairview Avenue - Ste 300, Hudson, NY 12534, USA. Tel: +1 518 822-9300, Fax: +1 518 822-9305, Email: psc@periodicals.com

JOURNAL OF APPLIED RESEARCH IN INTELLECTUAL DISABILITIES (ISSN 1360-2322) is published bimonthly. US mailing agent: Mercury Media Processing, LLC 1850 Elizabeth Avenue, Suite #C, Rahway, NJ 07065 USA. Periodical postage paid at Rahway, NJ.

Postmaster: Send all address changes to JOURNAL OF APPLIED RESEARCH IN INTELLECTUAL DISABILITIES, Journal Customer Services, John Wiley & Sons Inc., 350 Main St., Malden, MA 02148-5020.

The Journal of Applied Research in Intellectual Disabilities is published by Blackwell Publishing Ltd, 9600 Garsington Road, Oxford OX4 2XG, UK, Tel: +44 (0) 1865 776868, Fax: +44 (0) 1865 714591.

Journal Customer Services: For ordering information, claims and any enquiry oncerning your journal subscription please go to www.wileycustomerhelp.com/ask or contact your nearest office:

Americas: Email: cs-journals@wiley.com; Tel: + 1 781 388 8598 or 1 800 835 6770 (Toll free in the USA & Canada)

Europe, Middle East and Africa: Email: cs-journals@wiley.com; Tel: +44 (0) 1865 778315 Asia Pacific: Email: cs-journals@wiley.com; Tel: +61 6511 8000

Japan: For Japanese speaking support, Email: cs-japan@wiley.com

Visit our Online Customer Get-Help available in 7 languages at www.wileycustomer

Production Editor: John Marlou V. De Guzman (email: jar@wilev.com)

Wiley's Corporate Citizenship initiative seeks to address the environmental, social, economic, and ethical challenges faced in our business and which are important to our diverse stakeholder groups. Since launching the initiative, we have focused on sharing our content with those in need, enhancing community philanthropy, reducing our carbon impact, creating global guidelines and best practices for paper use, establishing a vendor code of ethics, and engaging our colleagues and other stakeholders in our efforts. Follow our progress at http://www.wilev.com/go/citizenship

Wiley is a founding member of the UN-backed HINARI, AGORA, and OARE initiatives. They are now collectively known as Research4Life, making online scientific content available free or at nominal cost to researchers in developing countries. Please visit Wiley's Content Access - Corporate Citizenship site: http://www.wiley.com/ WileyCDA/Section/id-390082.html

Advertising: Joe Adams (jadams@wiley.com)

Offprints

C.O.S. Printers Pte Ltd. 9 Kian Teck Crescent. Singapore 628875

Fax: +65 6265 9074 Email: offprint@cosprinters.com

View this journal online at wileyonlinelibrary.com.

Access to this journal is available free online within institutions in the developing world through the HINARI initiative with the WHO. For information, visit www.health

Printed in Singapore by Markono Print Media Pte Ltd

ISSN 1360-2322 (Print), 1468-3148 (Online).

For submission instructions, subscription and all other information visit: http://wileyonlinelibrary.com/journal/jar

Author Guidelines

General

Please read the instructions below for brief details on the Journal's requirements for manuscripts. Please visit the journal website http://wileyonlinelibrary.com/journal/jar for full and updated Author Guidelines and Wiley's Author Services website, http://authorservices.wilev.com/bauthor, for further information on the preparation and submission of articles and figures. Manuscripts in an incorrect format may be returned to the author.

Manuscript Submission

Submissions are now made online using ScholarOne Manuscripts (formerly Manuscript Central). To submit to the journal go to http:// mc.manuscriptcentral.com/jarid. If this is the first time you have used the system you will be asked to register by clicking on 'create an account'. Full instructions on making your submission are provided. You should receive an acknowledgement within a few minutes. Thereafter, the system will keep you informed of the process of your submission through refereeing, any revisions that are required and a final decision

Manuscript Format and Structure

All manuscripts submitted to JOURNAL OF APPLIED RESEARCH IN INTELLECTUAL DISABILITIES should include:

Cover Page: A cover page should contain only the title, thereby facilitating anonymous reviewing. The author's details should be supplied on a separate page and include postal address, telephone and fax numbers as well as an email address. The author for correspondence should be identified clearly.

Running Title: A short title of not more than fifty characters, including spaces should also be provided.

Keywords: Up to six keywords to aid indexing should be provided.

Main Text: All papers should be divided into a structured abstract (150 words) and the main text with appropriate sub headings. A structured abstract should be given at the beginning of each article, incorporating the following headings: Background, Materials and Methods, Results, Conclusions. These should outline the questions investigated, the design, essential findings and main conclusions of the study. The text should then proceed through the sections of Introduction, Materials and Methods, Results and Discussion, and finally Tables. Figures should be submitted as a separate file.

Style: Manuscripts should be formatted with a wide margin and double spaced. Include all parts of the text of the paper in a single file, but do not embed figures. Please note the following points which will help us to process your manuscript successfully:

- include all figure legends, and tables with their legends if available:
- do not use the carriage return (enter) at the end of lines within a paragraph:
- turn the hyphenation option off;
- in the cover email, specify any special characters used to represent non-keyboard characters;
- take care not to use l (ell) for 1 (one), O (capital o) for 0 (zero) or β(German esszett) for (beta);
- use a tab, not spaces, to separate data points in tables; if you use a table editor function, ensure that each data point is contained within a unique cell, i.e. do not use carriage returns within cells.

Original Articles, Review Articles, Brief Reports, Book Reviews and Letters to the Editor are accepted.

Theoretical papers are also considered provided the implications for therapeutic action or enhancing quality of life are clear. Both quantita tive and qualitative methodologies are welcomed. All original and review articles continue to undergo a rigorous, peer-refereeing

Articles are accepted for publication only at the discretion of the Editor. Articles should not exceed 7000 words. Brief Reports should

not normally exceed 2000 words. Submissions for the Letters to the Editor section should be no more than 750 words in length.

Spelling should conform to The Concise Oxford Dictionary of Current English and units of measurements, symbols and abbreviations with those in Units, Symbols and Abbreviations (1977). For further details please see the journal webpage http://wileyonlinelibrary.com/journal/jar.

Tables, Figures and Figure Legends

Tables should include only essential data. Each table must be typewritten on a separate sheet and should be numbered consecutively with Arabic numerals, e.g. Table 1, and given a short caption.

Figures should be referred to in the text as Figures using Arabic numbers, e.g. Fig. 1, Fig. 2, etc, in order of appearance. Figures should be clearly labeled with the name of the first author, and the appropriate number. Each figure should have a separate legend; these should be grouped on a separate page at the end of the manuscript. All symbols and abbreviations should be clearly explained. Further information can be obtained at the Journal website http://wilevonlinelibrary.com/journal/jar and at Wiley's guidelines for illustrations: http://authorservices.wiley.com/ bauthor/illustration.asp.

Colour Charges

It is the policy of the JOURNAL OF APPLIED RESEARCH IN INTELLECTUAL DISABILITIES for authors to pay the full cost for the reproduction of their colour artwork. The Colour Work Agreement form can be down-

http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1468-3148/homepage/JAR_CWA_Form_2015.pdf

Acceptance of a Manuscript for Publication

Authors submitting a paper do so on the understanding that the work has not been published before, is not being considered for publication elsewhere and has been read and approved by all authors. If your paper is accepted, the author identified as the formal corresponding author for the paper will receive an email prompting them to login into Author Services; where via the Wiley Author Licensing Service (WALS) they will be able to complete the license agreement on behalf of all authors on the paper. Copyright Transfer Agreement (CTA) and OnlineOpen terms and conditions can be found here: http://authorservices.wiley.com/bauthor/faqs_copyright.asp.

If all or parts of previously published illustrations are used, permission must be obtained from the copyright holder concerned. It is the author's responsibility to obtain these in writing and provide copies to the Publisher.

The corresponding author will receive an e-mail alert containing a link to download their proof as a PDF (portable document format). $Corrections \, must \, be \, returned \, to \, the \, Production \, Editor \, within \, 3 \, days \, of \, and \, be \, returned \, to \, the \, Production \, Editor \, within \, 3 \, days \, of \, constant \, and \,$

Journal of Applied Research in Intellectual Disabilities accepts articles for Open Access publication. Please visit http://olabout.wiley.com/ WileyCDA/Section/id-406241.html for further information about OnlineOpen.

Author Services

For more substantial information on the services provided for authors, please see http://authorservices.wiley.com/bauthor/default.asp.



