The Centre for Clinical Research Excellence in Aphasia Rehabilitation

‘Better pathways to living successfully with aphasia’
Aims of the CCRE in Aphasia Rehabilitation

The Centre for Clinical Research Excellence in Aphasia Rehabilitation exists to:

- **Communicate** with people with aphasia and their families, to establish their needs, concerns and priorities;

- **Research and develop** the best possible methods of rehabilitation for people with aphasia; and

- **Provide relevant and accessible guidelines** for aphasia therapy, through collaboration with people with aphasia, their families and friends, speech pathologists and other health professionals.
Progress in 2012

The Centre for Clinical Research Excellence (CCRE) in Aphasia Rehabilitation had a very busy and highly productive year in 2012.

We have continued to ensure substantial capacity building of the team through additional external funding that has allowed recruitment of new staff and recruitment of research higher degree (PhD) students.

Research projects have continued to produce both the usual outcomes such as publications, collaborations and external funding opportunities but we have also made important steps forward in the development of the Australian Aphasia Rehabilitation Pathway and its translation/implementation.

Capacity building, Collaboration and Funding

The CCRE continues to support 5 postdoctoral researchers, 3 of who are in their final year in 2012. The Centre now has 28 student affiliates (research higher degree; up from 22) supervised by staff within the CCRE, 26 Research affiliates (up from 22) collaborating on projects with us, over 180 clinical affiliates (up from 150) involved in our community of practise and 120 people with aphasia registered to participate in research (up from 90).

Significant collaboration between Centre investigators and our affiliates has culminated in over $10 million of additional competitive grant funding awarded in 2012; see page 12-13 for a list of externally funded research projects and programs complementary to the CCRE program.

Research progress

Excellent progress has been made on the projects named in the original NH&MRC CCRE funding proposal but excitingly development of new projects and directions has also been achieved via the excellent capacity building that the CCRE has accomplished. A description of research progress is provided in the following section.

Centre investigators and research students produced 36 publications in 2012 and made numerous presentations at both national and international conferences in 2012. Publications arising from CCRE research projects are listed on page 14-16.

Translating research into the Australian Aphasia Rehabilitation Pathway

A major objective of the CCRE in Aphasia Rehabilitation is to translate our research findings into the Australian Aphasia Rehabilitation Pathway.
Following from work in 2011, a Community of Practice meeting was convened in Sydney (ahead of 2012 Stoke Conference) to provide feedback on the pathway concept, design and proposed roll-out ideas. We had significant feedback from this meeting that allowed us to make some significant leaps in progress for the pathway. A research assistant, Emma Thomas, was employed (and continuing in 2013) to implement many of the recommendations from the Community of Practice and some exciting advancements will be on display in 2013.

**Conference Highlights**

**The 2012 Stroke Conference**

The 2012 Stroke conference was attended by many staff and affiliates of the CCRE. The CCRE was proud to support a one day satellite meeting for aphasia alongside the 2012 Stroke conference in Sydney which included us as Silver Sponsor for the Australian premiere of “APHASIA the Movie”. Aphasia the Movie has been acclaimed on the international film festival circuit including Winner 2011 Feel Good Film Festival Los Angeles. Stroke survivors, carers, family, and health professionals attended the premiere. Michelle Attard, one of our higher degree students won the award for best poster at the conference.

**The International Aphasia Rehabilitation Conference**

The CCRE Aphasia hosted the International Aphasia Rehabilitation Conference in Melbourne in October 2012 with a number of key international speakers attending the meeting. Recognition of the strength of the CCRE was demonstrated by CCRE investigators and students providing 2 keynote presentations, 9 platform presentations and 24 posters.

Congratulations to our own Dr Miranda Rose for convening a fabulous 15th International Aphasia Rehabilitation Conference in Melbourne in October. There was a superb mix of sessions and speakers and for anyone who missed it, some of the posters and presentations are up on the CCRE website under the News & Events page – go check them out!

**The Biennial Australian Aphasia Association (AAA) Conference**

The Biennial Australian Aphasia Association Conference ‘Living well with Aphasia’ was held in Melbourne in October 2012. The Victorian Branch of the Australian Aphasia Association, chaired by Dr O’Halloran (postdoctoral research fellow) and the 2012 AAA Conference Organising Committee convened a very successful conference. Over 200 participants attended each day. The keynote speakers Dr Aura Kagan, Mr Tim Adam and Mr Don Bowden, people with aphasia and family members shared experiences and insights into how to live well with aphasia. The inspiring art works by people with aphasia and the Stroke a Chord choir also made this a wonderful, memorable conference.
The 2012 Clinical Aphasiology Conference (CAC), Lake Tahoe, USA

Professor Leanne Togher was the first non-American Program Chair for this meeting in its 42-year history. The Clinical Aphasiology Conference (CAC) is an annual forum for clinicians and researchers engaged in the study and clinical management of persons with acquired neurologic language disorders. At CAC, participants present their recent research and engage in extensive discussions with colleagues. To develop an informal atmosphere conducive to the free exchange of ideas, CAC attendance is limited to approximately 100 people. Higher degree students are welcome to attend this meeting. At the 2012 meeting, Andrea Kilov, who has recently been awarded her PhD attended CAC2012 as an NIDCD Fellow. Andy received personal mentoring from experts in the field of aphasia and TBI and was supported financially to attend the meeting. Leanne will be the Conference Chair for the next CAC, which will be held in Tucson, Arizona in June 2013.

Research Project Updates

TRANSITION PLANNING PROJECT

Contributors: Tanya Rose, Linda Worrall, Sarah Wallace

People living with aphasia require information specifically about aphasia and report that this information is needed to access services and to explain their difficulties to others. Information may also assist people with aphasia to take control and to participate in decisions about their healthcare. A systematic approach to providing information about aphasia is needed to ensure people living with aphasia, including family and friends, have access to information in an optimal format and at times when it is most helpful.

This program of research involves exploring current practice in aphasia information provision and determining the information needs of people living with aphasia. Two online questionnaires have been completed; one by 187 speech-language pathologists and the other by 110 family members and friends of people with aphasia. The results of the speech-language pathologist questionnaire will be reported at the Speech Pathology Australia national conference in June 2013. Planning is also underway for a series of focus groups to further explore how the information needs of family and friends of people with aphasia can best be met.
DIAGNOSIS OF APHASIA

Contributors: Robyn O’Halloran, Alexia Rhode, Linda Worrall

PhD student Alexia Rohde is working with CI Worrall and postdoctoral research fellows Dr O’Halloran and Dr Godecke on a systematic review of the evidence for the detection of aphasia in the acute setting. The Communication Disability Screener (O’Halloran and Worrall) has been developed to detect the presence of people with difficulty communicating their needs in hospital (communication activity limitation) and may also provide a way for Speech Pathologists to detect the presence of aphasia in bedside conversation. The Communication Disability Screener is currently being piloted with clinicians to determine its feasibility in the acute hospital setting.

Honours student Marianne Vergis, along with Al Ballard and US collaborators Duffy, McNeil, and Robin, are working on developing a simple test to detect when individuals with aphasia also have difficulties with controlling oral movements for speech production (i.e. Apraxia of Speech). The test involves trying to say a small number of polysyllabic words (e.g., potato, tomato) and, with an automated software program, making some simple measurements of the recorded speech sample. Better detection of Apraxia of Speech in individuals with aphasia will assist in developing more targeted, and hopefully, more effective interventions for this group. This work has resulted in two publications in the past year with two others studies under review.

PARTICIPATORY ENVIRONMENT RESEARCH

Contributors: Scott Barnes, Emma Power, Leanne Togher, Robyn O’Halloran, Miranda Rose

People with aphasia can have difficulty participating in healthcare activities if the communicative environment is not accessible. Training staff in healthcare contexts is one way of improving the communicative environment encountered by people with aphasia. The CCRE Aphasia Participatory Environment Project (PEP) aims to investigate the effectiveness of conversation partner training for improving knowledge of aphasia and related communication strategies, and attitudes towards communicating with people with aphasia. The PEP is focused on people who are training to be health professionals, such as student nurses, occupational therapists, and physiotherapists. The overall aim of this project is to ensure that, when these new health professionals enter the workforce, they will have an understanding of the importance of communicative accessibility, and practical strategies for promoting it. In collaboration with the Aphasia Institute (Toronto, CA), Prof. Leanne Togher (CCRE Aphasia Chief Investigator), Dr. Emma Power, and Dr. Scott Barnes (both former CCRE Aphasia postdoctoral fellows) have developed a conversation partner training program for undergraduates training to be health professionals. Two versions of this program have been developed: face-to-face training led by an aphasia expert, and online training. Development of the online training was supported by a University of Sydney IT grant awarded to the PEP research team in May 2012. During 2012, both versions of the training were successfully piloted with undergraduate nursing and speech pathology
students. In 2013, the training will be offered to undergraduates studying occupational therapy and physiotherapy. The PEP will determine the effectiveness of this training program, and establish whether the modality of training (i.e. face-to-face vs. online) affects training outcomes.

Another way to develop a communicatively accessible environment is to measure how accessible the environment is overall. Dr Robyn O’Halloran (CCRE Aphasia postdoctoral fellow), Dr Miranda Rose (CCRE Associate Investigator) with Dr Pranee Liamputtong and La Trobe University Honours student Yan Shan Lee conducted focus groups with Speech Pathologists to identify the factors that need to be included in the development of an audit tool to measure the communicative accessibility of the hospital setting. This focus group data was reanalysed in 2012 to identify the benefits of creating communicatively accessible healthcare environments as perceived by Speech Pathologists. Both these studies will inform the development of communicatively accessible healthcare environments.

**KNOWLEDGE TRANSFER EXCHANGE**

*Contributors: Emma Power, Robyn O’Halloran*

There are many factors that can make it difficult for health professionals to implement research evidence into clinical practice. CCRE Post-doctoral fellows Dr Power and Dr O’Halloran worked with University of Sydney Honours’ students Melissa Miao and Kathleen Hadeley in 2012 to identify the factors that influence speech pathologists’ when implementing stroke clinical practice guidelines. This research will inform the development of strategies to enable better implementation of stroke clinical practice guidelines and research evidence generated by the CCRE in Aphasia Rehabilitation.

**NEUROPLASTICITY**

*Contributors: Linda Worrall, David Copland, Amy Rodriguez*

**Aphasia LIFT**

CI Worrall, CI Copland and Dr Amy Rodriguez (Postdoctoral Research Fellow) have continued the development of Aphasia LIFT (Language Impairment and Functioning Therapy). LIFT is an intensive comprehensive aphasia program that combines evidence-based treatment approaches to maximize language and communication in people with chronic aphasia. The core components of LIFT are based on principles related to neuroplasticity (intensity, repetition, salience), a positive approach to treatment, and partnership with family and friends. As LIFT is the only known research-based intensive comprehensive program, we are generating important evidence for this rapidly growing treatment approach by measuring outcomes across the domains of language impairment, functional communication, and communication-related quality of life. To date, three cohorts have participated in the LIFT program. Results have demonstrated positive
outcomes in at least two of three domains for all individuals. Dr Rodriguez presented the results of LIFT at the Stroke 2012 Conference (Sydney) and the International Aphasia Rehabilitation Conference (Melbourne). A manuscript is also currently under review with Aphasiology.

Communicative Fitness

The Communicative Fitness study relates to the neuroplasticity principles of “use it or lose it” and “intensity of practice”. CI Worrall, CI Copland, Dr Emma Power, Dr Amy Rodriguez and Caitlin Brandenburg have been collaborating with Left Right and Centre, a private Brisbane-based company, in the design and development of CommFit™, an iPhone application (app) that will be used in the Communicative Fitness project. The CommFit™ app has two uses: 1) measurement of talking time and 2) goal-setting, monitoring, and feedback related to talking time. Currently, Ms Brandenburg is trialling the usability of CommFit™ by people with aphasia, and her research focuses on using talking time as a direct measure of communicative participation. Drs Rodriguez and Power have developed a program aimed at using the goal-setting, monitoring and feedback components of CommFit™ to increase talking time in people with aphasia.

IMPAIRMENT-BASED RESEARCH

*Contributors: Lyndsey Nickels, Miranda Rose, Kati Renvall, Amy Rodriguez, Zaneta Mok, Bronwyn Davidson, and Kirrie Ballard*

This strand of research focuses on specifying and better understanding the nature of language impairments in aphasia as well as evaluating the effectiveness of therapy for these impairments. There are a number of projects within the strand which are outlined below.

Understanding the nature of language impairments to facilitate better treatment

Professor Lyndsey Nickels (CI) was successful in being awarded an Australian Research Council Future Fellowship entitled “Towards better treatments for language disorders”. This fellowship will fund her until 2018 to investigate a number of factors that may underpin our understanding of how treatment works. This research will include investigations of generalisation in treatment and whether the same mechanisms are involved in treatment of word retrieval and learning of new words. Macquarie University have provided additional funding for two PhD scholarships and a postdoctoral researcher who will also work on this project.

Research affiliate Biedermann and CI Nickels, funded by the Australian Research Council, have been investigating lexical-syntactic and morphological problems of people with aphasia, for example, problems producing plurals. They have developed a comprehensive testing battery which, in time, should enable clinicians to assess these impairments. In addition with PhD student Nora Fieder (CCRE higher degree research affiliate), they have been investigating problems in producing the correct determiners for different noun types (e.g., mass nouns, singular count nouns).
At Macquarie University, two CCRE Higher Degree Research Affiliates, Anastasiia Romanova and Trudy Krajenbrink have been investigating factors relevant to aphasia therapy. Anastasiia Romanova has been examining learning of proper and common nouns to determine whether they are learned differently by people without aphasia; the findings have direct implications for treatment of proper nouns which are so often difficult for people with aphasia. Trudy Krajenbrink is examining the problems people with aphasia have with spelling and will be identifying the factors that influence whether improving spelling of specific words can generalise to improvement of other (untreated) words.

At La Trobe University, AI Rose and postdoctoral fellow Dr Zaneta Mok, along with higher degree students Abby Foster, Lucie Lanyon, and Michelle Attard, and Dr Kazuki Sekine (University of Birmingham) have been investigating the gesture production patterns of people with aphasia in discourse samples available from AphasiaBank. We have also examined the factors that predict these patterns. The findings have implications for the selection of gesture as a treatment modality for people with aphasia. Results have been published in Aphasiology and submitted to the American Journal of Speech Language Pathology. Current studies are examining the communicative effectiveness of the gestures produced by individuals with aphasia.

**Extending our understanding of treatment**

Dr Renvall (CCRE postdoctoral research fellow) and CI Nickels have continued their project of developing new assessment and treatment methods for adjectives. They have presented results of their first single-case treatment study in one national conference (Speech Pathology Australia) and three international conferences (European Workshop on Cognitive Neuropsychology, Science of Aphasia, and International Aphasia Rehabilitation Conference) including one poster and three platform presentations. The manuscript of the first treatment study is to be submitted in 2013. Renvall and Nickels have collected data on how both young and older adults perform on their innovative assessments of production of adjectives used for expressing emotions (e.g. angry, frustrated, cheerful, depressed). These datasets will allow comparison of performance between control speakers and people with aphasia, and will allow assessment of how far people with aphasia have problems in producing these words for the first time. The analyses of the data are in progress and planned to be published in 2013. CI Nickels and Dr Renvall have also continued data collection in a brain imaging project that aims to shed light on brain activation patterns related to processing of nouns and adjectives in non-language-impaired people and people with aphasia (funded by Macquarie University Research Development grant). The scanning of non-brain-damaged elderly adults was started in towards the end of 2012 and will be continued until June 2013. The recruitment of people with aphasia is currently ongoing.

In Stroke Association funded research, CI Nickels and CCRE clinical affiliate Osborne have been investigating the effectiveness of Constraint Induced Aphasia Therapy when conducted at a clinically realistic intensity and contrasting this with the same treatment applied without constraint. Results were presented at the International Aphasia Rehabilitation Conference. They show positive effects from both treatment but little difference between the techniques,
suggesting that constraint is not a necessary factor in the effectiveness of Constraint Induced Aphasia Therapy. A follow up study has used volunteers to implement the treatment.

Further, Al Rose, Post-doctoral fellow Zaneta Mok, and higher degree students Michelle Attard, Lucie Lanyon and Abby Foster have compared Constraint Induced Aphasia Therapy Plus with Multi-Modality Aphasia Therapy in 13 individuals with chronic aphasia. Both treatments showed positive effects including some generalisation to discourse, with little difference between them. Results were presented at the American Clinical Aphasiology Conference and have been submitted for publication. An NHMRC project grant application has been made to extend this work to a large national study.

PhD student Dominique Scholl and supervisors AI Ballard and CI Nickels, are investigating the influence of concomitant Apraxia of Speech (AOS), a motor speech disorder, on outcomes of a word production treatment (Semantic Feature Analysis, SFA) for individuals with aphasia. The SFA treatment is provided intensively over 4 weeks and we are examining how well individuals with aphasia plus AOS respond to the treatment, compared to those with aphasia alone. This will help us understand whether presence of AOS does or does not require a different treatment approach. In addition Ballard, with collaborators at Neuroscience Research Australia, have reported on the effects of a treatment for word production in individuals with the semantic variant of primary progressive aphasia (Savage, Ballard, Piguet, & Hodges, in press, Cortex). Also Ballard, together with PhD student Layfield and US collaborator Robin, have published a brief of group-based therapy for aphasia (Layfield, Ballard, & Robin, in press, Evidence-Based Practice Briefs).

Ballard has recently taken up an ARC Future Fellowship to further explore the nature of AOS in individuals with aphasia caused by stroke, and refine current models of speech motor control to better explain this condition.

**Functionally relevant items in the treatment of aphasia**

Aphasiologists have always aimed to treat items that are “functional”, “relevant” and “meaningful” for people with aphasia. However, the field lacks clear definitions of these terms. Moreover, strategies and tools to enable identification of the items are lacking. These observations served as starting points for studies conducted by Dr Renvall (CCRE Postdoctoral Research Fellow), CI Nickels, and AI Davidson. In 2012, Renvall and colleagues submitted two closely linked papers on this topic both of which are now in press. The papers not only clarify the current terminology and pinpoint weaknesses of current practice but also offer insights and specific tools to improve clinical practice in the future. Publication of this literature review together with new analyses and frequency-based lists of items (vocabulary and topics of conversations) serves as a first step in making selection of therapy items more systematic and more beneficial for individual clients in the future. This project aims to promote a dialogue between researchers and clinicians on this topic. To accomplish this, Renvall and colleagues will present the current findings at a large speech pathology conference (International Association of Logopedics and Phoniatrics) in 2013.
The treatment research noted above (e.g. Renvall & Nickels; Osborne & Nickels) puts into practice the use of functionally relevant stimuli and investigates the impact of treatment on the use of these stimuli in everyday life.

APHASIA & CULTURALLY AND LINGUISTICALLY DIVERSE (CALD) BACKGROUND

**Contributors: Miranda Rose, Zaneta Mok, Elizabeth Armstrong**

Al Rose and postdoctoral fellow Mok have examined disparities in the provision of stroke-related speech-language therapy services in relation to individuals with language preferences other than English. Data has been collected from state-wide records of public healthcare settings (Victoria) and is currently being analysed. Further, a national survey study has investigated current speech-language pathology practice in aphasia management for individuals from CALD backgrounds. Data is currently being analysed.

In an NH&MRC-funded project (2013-2105), Al Armstrong, CCRE affiliates Hersh and Ciccone, with colleagues from UWA/Combined Universities Centre for Rural Health and Geraldton Aboriginal Medical Service are currently undertaking a state-wide study in Western Australia examining the experiences of Indigenous Australians with acquired communication disorders after stroke and traumatic brain injury. The project involves investigation into the extent and impact of these disorders from an epidemiological perspective, the development of a culturally appropriate communication screening tool, and the development of accessible and culturally appropriate service delivery models. The research team is comprised of Indigenous and non-Indigenous researchers and is based on collaborative, two-way learning concepts involving extensive consultation with Indigenous people with communication disorders and their families and Indigenous health professionals.

LIVING SUCCESSFULLY WITH APHASIA

**Contributors: Miranda Rose, Kyla Brown, Linda Worrall**

In ARC funded research (Future Fellowship, 2012-15) Associate Investigator Miranda Rose and higher degree student Lucie Lanyon have explored the client perspective of involvement in community aphasia groups. Data has been collected from the USA, Canada, UK, and Australia. Further, we have undertaken a national survey of speech pathology perceptions and practices concerning community aphasia groups. Data from both projects is currently being analysed.
Other Projects

LONGITUDINAL COMMUNICATION OUTCOMES FOLLOWING TRAUMATIC BRAIN INJURY

Contributors: Leanne Togher, Robyn Tate, Skye McDonald, Lyn Turkstra, Audrey Holland, Brian MacWhinney

Communication skills are frequently affected by traumatic brain injury (TBI). Communication difficulties may then impact upon a person with TBI’s capacity to engage in rehabilitation, maintain social relationships and achieve vocational goals. This NHMRC funded project will trace communication recovery in people with TBI at 3, 6, 9 months, 12 months and 2 years post injury. Research findings will identify predictive factors underlying recovery of communication deficits after TBI at 2 years post-trauma and examine the optimal time frame for recovery of communication skills after TBI. Knowledge of communication outcomes will support the delivery of speech pathology services in brain injury rehabilitation units and other health care settings. Findings will also make an important contribution to international TBI research and education through the TBI Bank multimedia database.

During 2012 participants were recruited from three major Brain Injury Rehabilitation Units in NSW and data collection commenced for the 3-12 month data points. Doctoral student, Elise Bogart, will analyse recovery data from the first 12 months post injury.
## Centre Staffing

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<td>Professor Linda Worrall</td>
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<td>Professor Alison Ferguson</td>
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<td>Professor Nina Simmons Mackie</td>
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<td>Dr Kati Renvall</td>
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<td>Dr Robyn O’Halloran</td>
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<td>Dr Amy Rodriguez</td>
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<td>Dr Kyla Brown</td>
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<td>Dr Belinda Kenny</td>
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<td>Dr Erin Godecke</td>
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<td>Dr Anna MacDonald (nee Holmes)</td>
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<td>Dr Scott Barnes</td>
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<td>Dr Zaneta Mok</td>
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**Competitive Grants Awarded in 2012**


Ballard KJ. A new model of human speech production through computational modeling and human functional brain imaging. *ARC Future Fellowship* 2012 (4 years): **$758,026**


Brown, K., Power, E., Davidson, B & Togher, L. A friend in need is a friend indeed: A Phase II trial of an intervention program for friends to reduce social isolation of people with aphasia following stroke. *National Stroke Foundation* (2012 Small Project Grants) **$19,175**


Cubirkka, L., Ferguson, A., & Barnes, S. Developing the skills to promote communicative competence in aphasia group therapy. *National Stroke Foundation* (Honours research grant) **$2,533**.

Finch, E., Fleming, J., Brown, K., McPhail, S., Cameron, A., & Lethlean, J. Using people with aphasia to train health professionals in effective communication strategies over the internet: A Phase II pre-post intervention study. *National Stroke Foundation** $20,000

McDonald, S., Anderson, V., Tate, R., Togher, L., Ponsford, J., Fleming, J., Ownsworth, T., Murdoch, B., Morgan, A., Douglas, J. *NHMRC Centre of Research Excellence in Brain Recovery 2012-2016 $2.5 million*

Nickels, L. Developing better treatments for language disorders. *ARC Future Fellowship 2012* (4 years): **$888,551**
Nickels, L. Developing better treatments for language disorders. Macquarie University Future Fellowship Start up fund. (2012 2 years) **$200,000**

Nickels, L. Improving word retrieval for people with aphasia. Macquarie University Safety Net Grant (2012 1 year) **$15,000**

Renvall, K., Burianova, H., & Nickels, L. 'Boring' or 'interesting': How do we process adjectives after brain damage? Macquarie University Research Development Grants (2011 - 2013) **$45,998**

Thompson, W., Sowman, P., Savage, G., Nickels, L., & Hodges, J. Powering up the right hemisphere when words fail: Augmenting melodic intonation therapy (MIT) with non-invasive brain stimulation to treat impaired left-hemisphere function. ARC CCD Cross Program Support Scheme (2012) **$14,000**

Rose, M. A comparison of Multi-modality and Constraint Induced aphasia therapy for people with chronic aphasia. Living with a disability research group seed funding. La Trobe University. (2012) **$14,000**

Worrall, L. E., Copland, D. A., Rodriguez, A. D., Khan, A. Innovative, client-centred, evidence-based and accessible aphasia rehabilitation services for all. UQ FirstLink (2012) **$4,661**

**Relevant Centre Publications in 2012**

*Investigators and students of the CCRE are bolded*


**Barnes, S., & Ferguson, A.** (2012). Speakership asymmetry during topic talk involving a person with aphasia. *Journal of Interactional Research in Communication Disorders, 3* (1), 27-46


Godecke E, Worrall L. ACTNoW Rapid Response: Letter to the Editor
BMJ 2012;345:e4407 doi: http://dx.doi.org/10.1136/bmj.e4407 (Published 13 July)
Cited in Brady MC, Kelly H, Godwin J, Enderby P. Speech and language therapy for aphasia following stroke. Cochrane Database of Systematic Reviews 2012.


(Although this was published in a volume with 2011 volume number it was first published July 2012).


Contact the CCRE in Aphasia Rehabilitation

As a translational research centre, the CCRE in Aphasia Rehabilitation focuses on delivering research to improve the lives of people with aphasia. Our centre undertakes a number of clinical studies/trials and you can find regular updates about our research on our website www.ccreaphasia.org.au

If you would like to support and/or participate in our research, please contact us on (07) 3365 2891 or ccre.aphasia@uq.edu.au

The CCRE is headquartered on the St Lucia campus of The University of Queensland.

CCRE in Aphasia Rehabilitation

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If you would like further information about aphasia community groups, please contact:

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