### The Psychological Record

# Reply to Barnes-Holmes & Harte (2022) "The IRAP as a Measure of Implicit Cognition: A Case of Frankenstein's Monster" --Manuscript Draft--

Manuscript Number	DCDF D 22 00044			
Manuscript Number:	PSRE-D-23-00014			
Full Title:	Reply to Barnes-Holmes & Harte (2022) "The IRAP as a Measure of Implicit Cognition: A Case of Frankenstein's Monster"			
Article Type:	Brief Communication			
Funding Information:	Deutsche Forschungsgemeinschaft (464488178)	Dr. Ian Hussey		
Abstract:	Barnes-Holmes & Harte (2022) recently provided an account of the history of the development and use of the Implicit Relational Assessment Procedure (IRAP), and used this account as a springboard for suggestions for future research. Unfortunately, their core assertions are at odds with the published scientific record. This raises questions about the reliability of their recommendations. This reply uses a systematic review of the published IRAP literature to show that, contrary to Barnes-Holmes & Harte's (2022) account, (1) Barnes-Holmes repeatedly and explicitly stated that the IRAP is an implicit measure, and (2) Barnes-Holmes did not "lose control" of the task. Rather, he and his research group have produced the majority of all IRAP publications. The credibility of Barnes-Holmes & Harte's (2022) suggestions regarding the future of the IRAP is undermined by their inaccurate account of its past. However, their analogy with Frankenstein's monster still holds, albeit under an alternative and correct reading of Shelly's novel as a cautionary tale about scientific recklessness.			
Corresponding Author:	Ian Hussey, PhD Ruhr-Universitat Bochum Gent, BELGIUM			
Corresponding Author Secondary Information:				
Corresponding Author's Institution:	Ruhr-Universitat Bochum			
Corresponding Author's Secondary Institution:				
First Author:	Ian Hussey, PhD			
First Author Secondary Information:				
Order of Authors:	Ian Hussey, PhD			
Order of Authors Secondary Information:				
Author Comments:	See attached (non blinded) cover letter.			
Suggested Reviewers:	Ian Stewart, PhD Prof, NUI Galway: University of Galway ian.stewart@universityofgalway.ie Prof Stewart is listed among the frequent users of the IRAP and was involved in some of the early IRAP publications. He could speak to the accuracy of the commentary and original article.			
	Michelle Kelly, PhD NCI: National College of Ireland michelle.kelly@ncirl.ie Prof Kelly is also listed among the frequent users of the IRAP.			

Title Page (Title, Authors, Institutions, Contact Information)						
Reply to Barnes-Holmes & Harte (2022) "The IRAP as a Measure of Implicit Cognition:						
A Case of Frankenstein's Monster"						
I II						
Ian Hussey						
Author note: Ian Hussey, Ruhr University Bochum, Germany. <a href="mailto:ian.hussey@rub.de">ian.hussey@rub.de</a> . This						
research was supported by the META-REP Priority Program of the German Research						
Foundation (#464488178). All data, code and materials are available at osf.io/3bp84.						

**Abstract** 

Barnes-Holmes & Harte (2022) recently provided an account of the history of the development and use of the Implicit Relational Assessment Procedure (IRAP), and used this account as a springboard for suggestions for future research. Unfortunately, their core assertions are at odds with the published scientific record. This raises questions about the reliability of their recommendations. This reply uses the publications found by an existing systematic review of the published IRAP literature to show that, contrary to Barnes-Holmes & Harte's (2022) account, (1) Barnes-Holmes repeatedly and explicitly stated that the IRAP is an implicit measure, and (2) Barnes-Holmes did not "lose control" of the task. Rather, he and his research group have produced the majority of all IRAP publications. The credibility of Barnes-Holmes & Harte's (2022) suggestions regarding the future of the IRAP is undermined by their inaccurate account of its past. However, their analogy with Frankenstein's monster still holds, albeit under an alternative and correct reading of Shelly's novel as a cautionary tale about scientific recklessness.

Reply to Barnes-Holmes & Harte (2022) "The IRAP as a Measure of Implicit Cognition:

A Case of Frankenstein's Monster"

Barnes-Holmes & Harte (2022) recently provided their historical account of the development and use of the Implicit Relational Assessment Procedure (IRAP). Unfortunately, their core assertions are at odds with the published scientific record. As scientists generally, we should be concerned with verifiable facts and avoid revisionism. As behaviorists specifically, we should take responsibility for how we have arranged the environment and how this has influenced the behavior of other scientists. For example, other researchers are likely to use a task as an implicit measure if we repeatedly assert that it is one. This commentary therefore details and corrects the two key inconsistencies between the account provided by Barnes-Holmes & Harte (2022) and the actual contents of Barnes-Holmes' published work on the IRAP. Specifically, they argued that (1) "the IRAP did not start out as a measure of implicit cognition" (pp. 5-6) and (2) "the creator of the IRAP seemingly lost control of his creation as the procedure became almost exclusively employed as a measure of implicit cognition" (p. 2). These points are both key to Barnes-Holmes & Harte's (2022) account and demonstrably not the case. These corrections are not merely pedantic: Barnes-Holmes & Harte (2022) provided a roadmap for future research based on their view of the past nearly two decades of IRAP research. If future investments into IRAP research are to be successful we must build them on an accurate account of the work to date. Indeed, the credibility of any recommendations for the future of the task should be informed by the accuracy of the account of its past.

#### Systematic review of published IRAP research

Barnes-Holmes & Harte's (2022) claims were therefore testing using the list of 151 IRAP publications returned by an existing systematic review of the published IRAP literature

(2006 to 2022, in English, listed in the Web of Science or psycINFO databases). Full details of that systematic review, including Boolean search strings, all materials necessary to reproduce, reuse, or update the review, all data, and R code to reproduce the analyses are available in that publication (Hussey, 2023).

#### Barnes-Holmes consistently stated that the IRAP was created as an implicit measure

Claim 1: "The IRAP did not start out as a measure of implicit cognition" (Barnes-Holmes & Harte, 2022, pp. 5-6). On the contrary, the early IRAP literature is very explicit that it was created and used as one. The first IRAP publication, Barnes-Holmes et al. (2006), was subtitled "Developing the Implicit Relational Assessment Procedure (IRAP) as a direct measure of implicit beliefs" and furthermore stated that "the IRAP provides a measure of implicit beliefs" (p. 173). Some might argue that this alone is sufficient to settle the question of whether the IRAP began as an implicit measure.

To demonstrate that this wasn't an isolated claim, I provide quotes from each of the first ten published IRAP articles and book chapters of which Barnes-Holmes was a co-author. The second IRAP publication, stated, "another procedure for assessing implicit cognitions has been proposed, the Implicit Relational Assessment Procedure" (p. 254), and "the current findings provide some support for the IRAP as an implicit measure" (McKenna et al., 2007, p. 267). Cullen & Barnes-Holmes (2008) stated "it is prudent to develop additional methodologies that aim to provide relatively direct measures of implicit cognition. One such methodology has recently been offered: the Implicit Relational Assessment Procedure" (p. 35). Barnes-Holmes et al. (2008) stated, "the IRAP meets the second two criteria for an implicit measure" (p. 512). Chan et al. (2009) referred to the IRAP as an implicit measure in their title and stated, "The results support the use of the IRAP as an implicit measure in their title and stated, "The aim of the present study was to determine if the IRAP would be

more effective at revealing sexual offenders' implicit beliefs about children than an explicit (questionnaire-based) methodology" (p. 63). Vahey et al. (2009) stated the IRAP was "used with all participants to measure implicit self-esteem" (p. 374). Barnes-Holmes et al. (2009) stated that their "findings support the IRAP as a potentially useful measure of implicit attitudes." (p. 389). Power et al. (2009) referred to the IRAP as an implicit measure in their title and that the IRAP "was designed to examine implicit beliefs or attitudes" (p. 621). Cullen et al. (2009) stated "at the very least, therefore, the current findings indicate that the IRAP could provide a possibly useful alternative to the IAT [Implicit Association Test, the most popular implicit measure]" (p. 611).

Barnes-Holmes continued to refer to the IRAP as an implicit measure for over a decade. In order to not labor the point, I provide quotes from just one publication co-authored by Barnes-Holmes per year: "it would also seem prudent to attempt to develop additional methodologies that aim to provide relatively direct measures of implicit cognition. The IRAP may be one such method" (Barnes-Holmes et al., 2010, p. 45); "The Implicit Relational Assessment Procedure (IRAP) is an implicit measure" (Campbell et al., 2011, p. 378); "A broad implicit measure of depressive emotional reactions was created by mapping the content of the depression scale from the Depression Anxiety and Stress Scale (DASS) on to the Implicit Relational Assessment Procedure (IRAP)" (Hussey & Barnes-Holmes, 2012, p. 573); "the Implicit Relational Assessment Procedure (IRAP), which was designed to measure the professional's implicit attitudes to this particular disability" (Kelly & Barnes-Holmes, 2013, p. 5); "implicit measures such as the Implicit Relational Assessment Procedure ... may provide novel perspectives into disorders such as OCD" (Nicholson et al., 2014, p. 32); "the IRAP is uniquely equipped to measure implicit cognition" (Vahey et al., 2015, p. 60); "we hypothesized that the self-focused measure of implicit evaluations of death (i.e., personal IRAP) would be a superior predictor of group membership than the measure of abstract

implicit evaluations of death (i.e., abstract IRAP)" (Hussey et al., 2016, p. 3); "The implicit measures used (IAT and IRAP) are computer-based tests that assess reaction time biases" (Stewart et al., 2017, p. 64).

Barnes-Holmes' last reference to the IRAP as an implicit measure (i.e., Perez et al., 2019) seems to have been just before the publication of two independent meta-analyses of the IRAP's psychometric properties (Greenwald & Lai, 2020; Hussey & Drake, 2020). These reviews both concluded that the IRAP demonstrates poor reliability (Cronbach's  $\alpha$  = .56 and .51 respectively; test-retest reliability r = .45 and ICC<sub>2</sub> = .21 respectively). As such, its psychometric properties make it a poor implicit measure relative to others (see Greenwald & Lai, 2020).

Note that this question of whether the IRAP was claimed to be an implicit measure is agnostic to whether it also has real or potential utility within behavior-analytic research (e.g., as a measure of natural verbal relations). Barnes-Holmes has explicitly stated his position elsewhere that functional-analytic explanations and cognitive representational explanations of behavioral phenomena are separate levels of analysis that do not interact or preclude one another (Barnes-Holmes & Hussey, 2016). As such, the question of whether the IRAP is an implicit measure or a measure of natural verbal relations is not an either-or question. Barnes-Holmes & Harte's (2022) claim was that the IRAP did not start out as an implicit measure. The published scientific record demonstrates otherwise.

## Barnes-Holmes cannot have lost control of his creation because he produced most of the literature

Claim 2: "the creator of the IRAP seemingly lost control of his creation as the procedure became almost exclusively employed as a measure of implicit cognition" (Barnes-Holmes & Harte, 2022, p. 2). The implication here is that researchers other than Barnes-Holmes used the task extensively by others, perhaps in ways not intended by its creator.

Putting aside the question of how it was used (i.e., given that the previous section shows that it was consistently described as an implicit measure), this claim can be easily tested by examining the authorship of IRAP publications. If Barnes-Holmes & Harte's (2022) claim that Barnes-Holmes "lost control" of the task is valid, then the task would have to have seen extensive use by others.

The articles and book chapters found in the systematic review included 279 individual authors. The median number of publications per author was 1, with low variation (Median Absolute Deviation = 0). This demonstrates that the modal researcher who uses the IRAP uses it just once. To understand repeat users of the task, I extracted all researchers with at least five publications using the IRAP. Twenty such researchers were found (see Table 1). Results demonstrated that Dermot Barnes-Holmes was a co-author of 48% of all IRAP publications between 2006 and 2022. Of these twenty frequent publishers of IRAP research, one was Dermot Barnes-Holmes himself, fifteen were his current and former students, and one was his former student's student. Only three individuals who have frequently published IRAP studies did not come from Barnes-Holmes's academic lineage. 70% of all IRAP publications included Barnes-Holmes, his students, or his students' students as a co-author.

Collectively, this analysis of the authorship patterns in the IRAP literature reduces the credibility of Barnes-Holmes & Harte's (2022) claim that the task's creator lost control of the IRAP and the implication that it was authors other than Barnes-Holmes that used the IRAP as an implicit measure.

**Table 1.** Authors who have five or more IRAP publications and their association with Barnes-Holmes.

Author	Number of publications	Percent of all publications	Student of DBH	Student of DBH's student
Dermot Barnes-Holmes	72	48%	-	-
Yvonne Barnes-Holmes	31	21%	Yes	-

Author	Number of publications	Percent of all publications	Student of DBH	Student of DBH's student
Ciara McEnteggart	18	12%	Yes	-
Ian Stewart	17	11%	Yes	-
Carol Murphy	14	9%	Yes	-
Michelle E. Kelly	10	7%	Yes	-
Diana Ferroni Bast	9	6%	Yes	-
Ian Hussey	9	6%	Yes	-
Júlio C. de Rose	7	5%	No	-
Chad E. Drake	7	5%	No	-
Sean Hughes	7	5%	Yes	-
Louise McHugh	7	5%	Yes	-
Renato Bortoloti	6	4%	No	-
Colin Harte	6	4%	Yes	-
Deirdre Kavanagh	6	4%	Yes	-
Emma Nicholson	6	4%	Yes	-
João Henrique de Almeida	5	3%	Yes	-
Lynn Farrell	5	3%	No	Yes
Martin Finn	5	3%	Yes	-
Aileen Leech	5	3%	Yes	-

#### The analogy with Frankenstein

Barnes-Holmes & Harte's (2022) analogy between the IRAP and Frankenstein's monster is instructive and worth exploring. They stated that "In Mary Shelley's classic novel, Frankenstein (1818), we are presented with the case of a doctor who creates a living monster by successfully piecing together and reanimating body parts from different people. However, not long after the monster has been brought to life he becomes Dr. Frankenstein's nemesis and eventually leads to their joint demise. ... However, as was the case with Dr.

Frankenstein's monster, the creator of the IRAP seemingly lost control of his creation as the procedure became almost exclusively employed as a measure of implicit cognition. ... we hope that this story will not end in the same way that Shelley's did. Rather we hope that the IRAP, unlike Frankenstein's monster, will be tamed and refined into a better understood,

more precise, functional-analytic tool" (pp. 1-2). This rendition of the novel's plot and themes is a common and ironic misunderstanding: Shelly's Frankenstein is a story about the follies of scientific ambition that is blind to responsibility. Through his labors, Victor Frankenstein creates new life. But he does not lose control of the creature: he abandons and betrays it. The creature goes on to cause carnage, but the ultimate cause of this damage is Frankenstein's failure to stay true to his prior words or take responsibility for his influence over his creation.

#### Conclusion

Contrary to what Barnes-Holmes & Harte (2022) claimed, examination of the published IRAP literature showed that, from its inception, Barnes-Holmes stated that the IRAP was created and used as an implicit measure. Barnes-Holmes never 'lost control' of the task but rather has continued to be the primary author of IRAP publications. Barnes-Holmes has therefore played a central role in the verbal community that establishes and maintains the labelling and use of the IRAP as an implicit measure. Revisionism or obfuscation of the IRAP's history and evolution only serves to mislead readers and further confuse the task's purpose and potential utility. Unfortunately, the credibility of Barnes-Holmes & Harte's (2022) vision for the future of the IRAP is undermined by their mischaracterization of its past.

#### **Conflict of interest statement**

On behalf of all authors, the corresponding author states that there is no conflict of interest.

#### Availability of Data and Materials

All data and R code to reproduce the analyses are available (blinded link for peer review: <a href="https://osf.io/3bp84/?view\_only=6f29e185bac745d991b95e56cdb45fa6">https://osf.io/3bp84/?view\_only=6f29e185bac745d991b95e56cdb45fa6</a>).

#### **Compliance with Ethical Standards**

Not Applicable.

#### References

- Barnes-Holmes, D., Barnes-Holmes, Y., Power, P., Hayden, E., Milne, R., & Stewart, I. (2006). Do you really know what you believe? Developing the Implicit Relational Assessment Procedure (IRAP) as a direct measure of implicit beliefs. *The Irish Psychologist*, 32(7), 169–177.
- Barnes-Holmes, D., & Harte, C. (2022). The IRAP as a Measure of Implicit Cognition: A Case of Frankenstein's Monster. *Perspectives on Behavior Science*. https://doi.org/10.1007/s40614-022-00352-z
- Barnes-Holmes, D., Hayden, E., Barnes-Holmes, Y., & Stewart, I. (2008). The Implicit Relational Assessment Procedure (IRAP) as a response-time and event-related-potentials methodology for testing natural verbal relations: A preliminary study. *The Psychological Record*, *58*(4), 497–516.
- Barnes-Holmes, D., & Hussey, I. (2016). The functional-cognitive meta-theoretical framework: Reflections, possible clarifications and how to move forward.

  \*International Journal of Psychology, 51(1), 50–57. https://doi.org/10.1002/ijop.12166
- Barnes-Holmes, D., Murphy, A., Barnes-Holmes, Y., & Stewart, I. (2010). The Implicit

  Relational Assessment Procedure: Exploring the impact of private versus public

  contexts and the response latency criterion on pro-white and anti-black stereotyping

  among white Irish individuals. *The Psychological Record*, 60, 57–66.
- Barnes-Holmes, D., Waldron, D., Barnes-Holmes, Y., & Stewart, I. (2009). Testing the validity of the Implicit Relational Assessment Procedure and the Implicit Association Test: Measuring attitudes toward Dublin and country life in Ireland. *The Psychological Record*, *59*(3), 389–406. https://doi.org/10.1007/BF03395671

- Campbell, C., Barnes-Holmes, D., Barnes-Holmes, Y., & Stewart, I. (2011). Exploring Screen Presentations in the Implicit Relational Assessment Procedure (IRAP).

  International Journal of Psychology & Psychological Therapy, 11(3), 377–388.
- Chan, G., Barnes-Holmes, D., Barnes-Holmes, Y., & Stewart, I. (2009). Implicit attitudes to work and leisure among North American and Irish individuals: A preliminary study.

  International Journal of Psychology & Psychological Therapy, 9(3), 317–334.
- Cullen, C., & Barnes-Holmes, D. (2008). Implicit pride and prejudice: A heterosexual phenomenon? In M. A. Morrison & T. G. Morrison (Eds.), *The psychology of modern prejudice* (pp. 195–223). Nova Science Publishers.
- Cullen, C., Barnes-Holmes, D., Barnes-Holmes, Y., & Stewart, I. (2009). The Implicit

  Relational Assessment Procedure (IRAP) and the malleability of ageist attitudes. *The Psychological Record*, *59*(4), 591–620. https://doi.org/10.1007/BF03395683
- Dawson, D. L., Barnes-Holmes, D., Gresswell, D. M., Hart, A. J., & Gore, N. J. (2009).

  Assessing the implicit beliefs of sexual offenders using the Implicit Relational

  Assessment Procedure: A first study. *Sexual Abuse: Journal of Research and Treatment*, 21(1), 57–75. https://doi.org/10.1177/1079063208326928
- Greenwald, A. G., & Lai, C. K. (2020). Implicit Social Cognition. *Annual Review of Psychology*, 71(1), 419–445. https://doi.org/10.1146/annurev-psych-010419-050837
- Hussey, I. (2023). A systematic review of Null Hypothesis Significance Testing, sample sizes and statistical power in research using the Implicit Relational Assessment Procedure.

  PsyArXiv. https://doi.org/10.31234/osf.io/g2x9p
- Hussey, I., & Barnes-Holmes, D. (2012). The implicit relational assessment procedure as a measure of implicit depression and the role of psychological flexibility. *Cognitive and Behavioral Practice*, *19*(4), 573–582. https://doi.org/10.1016/j.cbpra.2012.03.002

- Hussey, I., Barnes-Holmes, D., & Booth, R. (2016). Individuals with current suicidal ideation demonstrate implicit "fearlessness of death." *Journal of Behavior Therapy and Experimental Psychiatry*, *51*, 1–9. https://doi.org/10.1016/j.jbtep.2015.11.003
- Hussey, I., & Drake, C. E. (2020). The Implicit Relational Assessment Procedure demonstrates poor internal consistency and test-retest reliability: A meta-analysis. *Preprint*. https://doi.org/10.31234/osf.io/ge3k7
- Kelly, A., & Barnes-Holmes, D. (2013). Implicit attitudes towards children with autism versus normally developing children as predictors of professional burnout and psychopathology. *Research in Developmental Disabilities*, *34*(1), 17–28.
- McKenna, I. M., Barnes-Holmes, D., Barnes-Holmes, Y., & Stewart, I. (2007). Testing the fake-ability of the Implicit Relational Assessment Procedure (IRAP): The first study. *International Journal of Psychology and Psychological Therapy*, 7(2), 253–268.
- Nicholson, E., Dempsey, K., & Barnes-Holmes, D. (2014). The role of responsibility and threat appraisals in contamination fear and obsessive-compulsive tendencies at the implicit level. *Journal of Contextual Behavioral Science*, *3*(1), 31–37. https://doi.org/10.1016/j.jcbs.2013.11.001
- Perez, W. F., de Almeida, J. H., de Rose, J. C., Dorigon, A. H., de Vasconcellos, E. L., da Silva, M. A., Lima, N. D. P., de Almeida, R. B. M., Montan, R. N. M., & Barnes-Holmes, D. (2019). Implicit and Explicit Measures of Transformation of Function from Facial Expressions of Fear and of Happiness via Equivalence Relations. *The Psychological Record*, 69(1), 13–24. https://doi.org/10.1007/s40732-018-0304-1
- Power, P., Barnes-Holmes, D., Barnes-Holmes, Y., & Stewart, I. (2009). The Implicit Relational Assessment Procedure (IRAP) as a measure of implicit relative preferences: A first study. *The Psychological Record*, *59*(4), 621–640.

- Stewart, C., Rogers, F., Pilch, M., Stewart, I., Barnes-Holmes, Y., & Westermann, S. (2017). The effect of social exclusion on state paranoia and explicit and implicit self-esteem in a non-clinical sample. *Journal of Behavior Therapy and Experimental Psychiatry*, 57, 62–69. https://doi.org/10.1016/j.jbtep.2017.04.001
- Vahey, N. A., Barnes-Holmes, D., Barnes-Holmes, Y., & Stewart, I. (2009). A first test of the Implicit Relational Assessment Procedure as a measure of self-esteem: Irish prisoner groups and university students. *The Psychological Record*, *59*(3), 371–388. https://doi.org/10.1007/BF03395670
- Vahey, N. A., Nicholson, E., & Barnes-Holmes, D. (2015). A meta-analysis of criterion effects for the Implicit Relational Assessment Procedure (IRAP) in the clinical domain. *Journal of Behavior Therapy and Experimental Psychiatry*, 48, 59–65. https://doi.org/10.1016/j.jbtep.2015.01.004





RUHR UNIVERSITY BOCHUM | 44780 Bochum | Germany

#### **FACULTY OF PSYCHOLOGY**

Psychology of **Human Technology** Interaction

Dr. Ian Hussey Phone +32 (0)470 396842 Email lan.hussey@rub.de

January 27, 2023

Manuscript submission: 'Reply to Barnes-Holmes & Harte (2022) "The IRAP as a Measure of Implicit Cognition: A Case of Frankenstein's Monster"

Dear Prof Fryling,

Please find attached my manuscript 'Reply to Barnes-Holmes & Harte (2022) "The IRAP as a Measure of Implicit Cognition: A Case of Frankenstein's Monster". I wish to submit it as a Brief Communication (word count: 2269 words).

Perspectives on Behavior Science recently published Barnes-Holmes & Harte (2022) "The IRAP as a Measure of Implicit Cognition: A Case of Frankenstein's Monster". In that article, the authors provided an account of the history of the development and use of the Implicit Relational Assessment Procedure (IRAP). They state (1) that the IRAP did not start out as an implicit measure, and (2) that Barnes-Holmes "lost control" of the task and others used it as one. They imply that other researchers misused the task and diverted the research agenda away from behaviorist goals. They use this account to as a springboard for suggestions for future IRAP research. Unfortunately, their core assertions are at odds with the published scientific record, including Barnes-Holmes own IRAP publications.

This reply uses a systematic review to test Barnes-Holmes & Harte's (2022) two aforementioned claims. I show that the IRAP was consistently stated to be an implicit measure, and that Barnes-Holmes never lost control of the task but is in fact author of 48% of all IRAP publications. The credibility of Barnes-Holmes & Harte's (2022) suggestions regarding future IRAP research are undermined by their inaccurate account of its past. Given that Barnes-Holmes & Harte (2022) argues for and is likely to be cited as a justification for a pivot in the use of the IRAP, I think that it is important that future research be based on an accurate representation of the facts, without revisionism, and that readers not be misinformed.

Perspectives on Behavior Science desk-rejected this manuscript on the grounds that they do not publish replies even those that raise factual inaccuracies. This was disappointing, and is unfortunately in line with observations made elsewhere that it can be difficult to publish critiques of already-published research (e.g., Gelman 2013, 'It's Too Hard to Publish Criticisms and Obtain Data for Replication'). I understand that it is less typical to publish replies in a different journal to that which published the original article, but the Psychological Record has published many IRAP papers, and I therefore hope that this Brief Communication is of interest to you and your readers.

Should you be willing to review it, I would request that Dermot Barnes-Holmes and Yvonne Barnes-Holmes not be involved in the editorial process, given their conflict of interest. The manuscript has not be published previously and it is not under consideration for publication elsewhere.

Kind regards,

Ian Hussey