

# How Mixed Methods Informs and Enhance Qualitative Research



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# Introduction: Intersection of Mixed Methods and Qualitative Research



Discussion integrating our perspective with yours:

- What are the current **trends** seen?

E.g.,

- Increasing frequency of mixed methods research in some qualitative journals
- Evidence of innovative mixed methods designs that are qualitative dominant
- Application of mixed methods research to “wicked problems” requiring trans-disciplinary and methodological approaches to generate novel understandings (Mertens, 2015)
- Use of qualitative software that also facilitates analysis of mixed methods data

# Introduction: Intersection of Mixed Methods and Qualitative Research



Discussion integrating our perspective with yours:

- What are the **benefits** experienced?

E.g.,

- Learning about mixed methods, some researchers are finding that understandings of qualitative and quantitative research are also enhanced (e.g., Poth, 2014)
- Ability to communicate among researchers who might not have interacted previously.

# Introduction: Intersection of Mixed Methods and Qualitative Research



Discussion integrating our perspective with yours:

- What are the **challenges** encountered?

E.g.,

- Differing definitions of mixed methods research
- Diverse understandings of mixed methods research literature
- Access to mixed methods research expertise—courses, workshops, webinars
- Research Collaborations – finding the appropriate people with the necessary disciplinary and methodological expertise combinations

# Introduction: Mixed Methods Reviewer Sheet



- How can our proposed reviewer sheet be useful for **authors** in conceptualizing their studies and preparing manuscripts for publication?
- How can our proposed reviewer sheet be useful for **reviewers** in reviewing manuscripts submitted for publication?
- How can our proposed reviewer sheet be useful for **authors** who are writing mixed methodological works (e.g., articles, books, book chapters)?

# Warrantedness

For each of the following statements, please indicate the extent to which you agree or disagree, according to the following scale.	1 Strongly Agree	2 Disagree	3 Agree	4 Strongly Agree	Comment
1. There is adequate support claims and findings made that stem from the extant literature.					
2. The findings are presented clearly and adequately.					
3. The sources used are both adequate and sufficiently recent.					
4. All new or unconventional terms and concepts are adequately defined.					
5. Adequate reference is made to the most recent mixed methods research literature					
6. The manuscript does not contain any reference list errors					
7. The manuscript does not contain any citation error.					

Source: Onwuegbuzie & Poth (2016)

# Justification



For each of the following statements, please indicate the extent to which you agree or disagree, according to the following scale.

For each of the following statements, please indicate the extent to which you agree or disagree, according to the following scale.	1 Strongly Agree	2 Disagree	3 Agree	4 Strongly Agree	Comment
8. The manuscript is sufficiently developed.					
9. The educational significance is stated clearly.					
10. The manuscript adequately advances qualitative/quantitative research.					
11. The manuscript adequately advances mixed methods research.					
12. Both the rationale of the study and rationale for mixing quantitative and qualitative approaches are stated clearly.					
13. The purpose statement is stated clearly					

# Writing Quality



For each of the following statements, please indicate the extent to which you agree or disagree, according to the following scale.

1  
Strongly  
Agree

2  
Disagree

3  
Agree

4  
Strongly  
Agree

Comment

14. The writing style of the manuscript is clear.

15. The manuscript does not contain an inconsistent information.

16. The manuscript contains an appropriate structure.

17. The manuscript does not contain any repetition.

18. The manuscript contains appropriate word usage throughout.

19. The manuscript contains appropriate transitions between sentences and paragraphs.

Source: Onwuegbuzie & Poth (2016)



# Transparency



For each of the following statements, please indicate the extent to which you agree or disagree, according to the following scale.

For each of the following statements, please indicate the extent to which you agree or disagree, according to the following scale.	1 Strongly Agree	2 Disagree	3 Agree	4 Strongly Agree	Comment
20. All the most important procedures are described clearly (if applicable).					
21. The sampling design, sampling scheme(s), sample size, and size of all observational units are specified clearly (if applicable).					
22. The analysis is described clearly (if applicable).					
23. All tables and figure are referred to and explained sufficiently (if applicable).					
24. Directions for future research are provided adequately.					
25. A clear and substantive conclusion is provided.					

Source: Onwuegbuzie & Poth (2016)

# Integration



For each of the following statements, please indicate the extent to which you agree or disagree, according to the following scale.

1  
Strongly  
Agree

2  
Disagree

3  
Agree

4  
Strongly  
Agree

Comment

26. The mixed methods research framework is presented clearly and adequately

27. Each research question is linked explicitly to the research design used.

28. An appropriate mixed methods research design is used.

29. The application of the manuscript is presented clearly and adequately (if applicable)

30. Discussion of the validity/legitimation issues is presented clearly and adequately.

# Philosophical Lens



For each of the following statements, please indicate the extent to which you agree or disagree, according to the following scale.

1 Strongly Agree	2 Disagree	3 Agree	4 Strongly Agree	Comment
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31. All research philosophies that are presented are labelled accurately and adequately.

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32. The research philosophy used by the researcher/author is specified and described clearly and accurately.

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# References Cited



- Mertens, D. (2015). Mixed methods and wicked problems, *Journal of Mixed Methods Research*, 9, 1-6. doi:10.1177/1558689814562944
- Onwuegbuzie, A.J., & Poth, C. (in press). Editor's Afterword: Toward evidence-based guidelines for reviewing mixed methods research manuscripts submitted to journals, *International Journal of Qualitative Methods*, 15. doi: 10.1177/1609406916628986
- Poth, C. (2014). What constitutes effective learning experiences in a mixed methods research course? An examination from the student perspective, *International Journal of Multiple Research Approaches*, 8, 74-86

The two special issues focused on Mixed Methods in *International Journal of Qualitative Methods* co-guest editors (A. J. Onwuegbuzie and C. Poth) can be accessed from:

<https://ejournals.library.ualberta.ca/index.php/IJQM/issue/view/1683>

Volume 14, issue 2 (2015)

Volume 15 (2016-in press)

# Some mixed methods references



## Books

- Creswell, J. (2015). *A concise introduction to mixed methods research*. Thousand Oaks, CA: Sage.
- Creswell, J., & Plano-Clark, V. (2011). *Designing and conducting mixed methods research* (2nd ed.). Thousand Oaks, CA: Sage.
- Curry, L. A., & Nunez-Smith, M. (2015). *Mixed methods in health sciences research*. Thousand Oaks, CA: Sage.
- Greene, J. (2007). *Mixed methods in social inquiry*. San Francisco: Jossey-Bass.
- Hesse-Biber, S. (2010). *Mixed methods research*. NY: Guilford Press.
- Johnson, B., & Christensen, L. (2014). *Educational research: Quantitative, qualitative, and mixed approaches*, Thousand Oaks, CA: Sage.
- Plano Clark, V. L., & Ivankova, N. V. (2016). *Mixed methods research: A guide to the field*. Thousand Oaks: Sage.
- Teddlie, C., & Tashakkori, A. (2009). *Foundations of mixed methods research*. Thousand Oaks, CA: Sage.

# Some mixed methods references



## Articles

-*Journal of Mixed Methods Research*

Johnson, R. B., Onwuegbuzie, A. J., & Turner, L. A. (2007). Toward a Definition of Mixed Methods Research, *Journal of Mixed Methods Research*, 1, 112-133. DOI: 10.1177/1558689806298224

- This was published in the initial issue of the journal and remains on Cheryl's "need to" read list

Collins, K. M. T., & O'Cathain, A. (2009). Ten points about mixed methods research to be considered by the novice researcher. *International Journal of Multiple Research Approaches*, 3(1), 2-7.

- This is a great beginning place for researchers to think about what "needs" to be thought about

Bazeley, P., & Kemp, L. (2012). Mosaics, Triangles, and DNA Metaphors for integrated analysis in mixed methods research. *Journal of Mixed Methods Research*, 6(1), 55-72. doi: 10.1177/1558689811419514

- Cheryl loves this article description of analysis- watch for Pat Bazeley's analysis book later this year!

Hesse-Biber, S., & Johnson, R. B. (2013). Coming at things differently: Future directions of possible engagement with mixed methods research. *Journal of Mixed Methods Research*, 7, 103-109. doi: DOI: 10.1177/1558689813483987

-A wonderful beginning conversation of the future of mixed methods

Mertens, D.M. (2011). Publishing Mixed Methods Research, *Journal of Mixed Methods Research*, 5, 3-5. DOI: 10.1177/1558689810390217

- Great resource, written by Donna Mertens when she was editor of the Journal

Onwuegbuzie, A. J., & Combs, J. P. (2010). Emergent data analysis techniques in mixed methods research: A synthesis. In A. Tashakkori & C. Teddlie (Eds.), *Handbook of mixed methods in social and behavioral research* (2nd ed., pp. 397-430). Thousand Oaks, CA: Sage.

Onwuegbuzie, A. J., Leech, N. L., & Collins, K. M. T. (2011). Toward a new era for conducting mixed analysis: The role of quantitative dominant and qualitative dominant crossover mixed analysis. In M. Williams & W. P. Vogt (Eds.), *The Sage Handbook of Innovation in Social Research Methods* (pp. 353-384). Thousand Oaks, CA

- As Tony mentioned the latter two works are more conceptual than practical but Cheryl has found these articles to be helpful for guiding analysis decisions