**Table 1.** Roles from original articles

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author** | **Country** | **Language** | **Journal** | **Year** | **Design** | **Theme(s)** | **Role itemsb** | **# of rolesc** |
| Bruce (1) | France | English  | BMC Medicine | 2016 | Systematic review  | N/A | N/A | 0 |
| Chauvin, A. (2) | France | English | BMC Medicine | 2015 | Survey | Familiar with journal | 11 | 1 |
| Das Sinha, S.(3) | India | English | National Medical Journal of India | 1999 | RCT | Proficient experts in their field, Unbiased and ethical professionals, Skilled critics, Respectful communicators | 1, 15, 42, 44, 57 | 5 |
| Duchesne, S. (4) | Canada | English | Neuroimage | 2008 | Descriptive study | Unbiased and ethical professionals, Reliable professionals,Skilled critics, Respectful communicators, Advisors, Peer reviewers should not | 16, 35, 43, 44, 47, 52, 57, 71, 72  | 9 |
| Frank, E. (5) | USA | English | Preventive Medicine | 1996 | Descriptive study | Unbiased and ethical professionals, Reliable professionals,Skilled critics,Respectful communicators, Advisors  | 13, 14, 16, 21, 35, 38, 44, 46, 57, 71 | 10 |
| Freda, M.(6) | USA | English | Journal of Professional Nursing | 2009 | Survey | Proficient experts in their field, Unbiased and ethical professionals, Reliable professionals,Skilled critics, Educators,Advisors,Peer reviewers should not | 1, 16, 35, 42, 43, 44, 46, 66, 70, 73  | 10 |
| Goodman, S.N. (7) | USA | English | Annals Intern Medicine | 1994 | Masked before-after study | N/A | N/A | 0 |
| Henly, S. J.(8) | USA | English | Nursing Outlook | 2009 | Descriptive study | Unbiased and ethical professionals, Skilled critics, Respectful communicators, Advisors, Peer reviewers should not | 15, 42, 43, 44, 47, 57, 64, 70, 71  | 9 |
| Ho, R. C.-M.(9) | Hong Kong | English | BMC Medical Research Methodology | 2013 | Survey | Skilled critics, Gatekeepers, Educators | 42, 63, 66  | 3 |
| Johnston, S. C. (10) | N/A | English | Annals of Neurology | 2007 | Randomized trial | Skilled critics | 43 | 1 |
| Kearney, M. H.(11) | USA | English | Research in Nursing Health | 2005 | Survey | Proficient experts in their field, Unbiased and ethical professionals, Reliable professionals,Skilled critics, Respectful communicators, Educators, Advisors  | 1, 15, 16, 35, 42, 43, 44, 46, 50, 52, 59, 60, 61, 66, 70, 73  | 16 |
| Kelly, M. J.(12) | UK | English | Colorectal Disease | 2013 | Intervention | Dutiful/altruistic towards scientific community | 6 | 1 |
| Kliewer, M. A.(13) | USA | English | American Journal of Roentgenology | 2004 | Descriptive study | Assess manuscript presentation | 62  | 1 |
| Kliewer, M. A.(14) | USA | English | American Journal of Roentgenology | 2005 | Survey | Unbiased and ethical professionals, Self-critical professionals, Reliable professionals, Assess manuscript presentation | 15, 33, 37  | 3 |
| Kurihara, Y.(15) | Japan | English | American Journal of Roentgenology | 2013 | Descriptive study | Skilled critics | 42, 43 | 2 |
| Larson, B. P.(16) | USA | English | HAND | 2012 | Systematic review | Unbiased and ethical professionals | 17 | 1 |
| Lipworth, W. L.(17) | Australia | English | Social Science & Medicine | 2011 | Qualitative study | Dutiful/altruistic towards scientific community, Unbiased and ethical professionals, Reliable professionals,Skilled critics, Respectful communicators | 4, 15, 16, 35, 42, 45, 48, 50, 51, 53, 55, 60  | 12 |
| Mulligan, A.(18) | N/A | English | Oral Oncology | 2005 | Qualitative study | Dutiful/altruistic towards scientific community,Reliable professionals,Skilled critics | 4, 35, 42, 55  | 4 |
| Napolitani, F.(19) | Italy | English | European Journal of Internal Medicine | 2016 | Descriptive study | Unbiased and ethical professionals, Self-critical professionals | 13, 16, 29, 31, 33 | 5 |
| Rostami, K.(20) | UK | English | Gastroenterology and Hepatology | 2011 | Descriptive study | Familiar with journal, Unbiased and ethical professionals,Self-critical professionals, Reliable professionals, Skilled critics,Assess manuscript presentation, | 11, 13, 16, 31, 37, 42, 44, 51 | 8 |
| Schroter, S.(21) | UK | English | Journal of the Royal Society of Medicine | 2008 | RCT | Skilled critics | 43 | 1 |
| Shattell, M. M.(22) | USA | English | Journal of Nursing Scholarship | 2010 | Survey | Familiar with journal, Skilled critics  | 11, 42, 43, 44 | 4 |
| Siegelman, S. S.(23) | N/A | English | Radiology | 1991 | Descriptive study | Skilled critics, Advisors to editors | 43, 70 | 2 |
| Vintzileos, A. M.(24) | USA | English | Journal of Maternal-Fetal & Neonatal Medicine | 2013 | Survey | Reliable professionals, Skilled critics  | 36, 42, 44 | 3 |
| **Total** |  |  |  |  |  |  |  | **110** |

B Corresponds to item number from the list of roles (Table 1)

C Number of extracted roles statements

**Table 2.** Tasks from original articles

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author** | **Country** | **Language** | **Journal** | **Year** | **Design** | **Task domain** | **Task itemsb** | **# of tasksc** |
| Bruce, R. (1) | France | English  | BMC Medicine | 2016 | Systematic review  | Make general comments, Results+systematic review items | 11, 13, 15, 46 | 4 |
| Chauvin, A.(2) | France | English | BMC Medicine | 2015 | Survey | Organization and approach to review,Make general comments, Abstract, Methods, Results, Discussion/Conclusion, References, Address ethical aspects, Assess manuscript presentation, Provide recommendations,+ RCT specific items | 5, 13, 14, 15, 16, 17, 19, 22, 23, 30, 31, 33, 34, 36, 38, 39, 45, 47, 48, 49, 50, 52, 55, 56, 57, 58, 59, 64, 65, 67, 70,  | 31 |
| Das Sinha, S.(3) | India | English | National Medical Journal of India | 1999 | RCT | Organization and approach to review,Make general comments, Results, Discussion/Conclusion, Assess manuscript presentation, Provide recommendations, | 1, 6, 14, 31, 32, 36, 45, 50, 51, 63, 67, 70, 72, 73  | 14 |
| Duchesne, S.(4) | Canada | English | Neuroimage | 2008 | Descriptive study | Organization and approach to review,Make general comments,Title is accurate, Abstract, Introduction, Results, Discussion/Conclusion, References, Address ethical aspects, Assess manuscript presentation, Provide recommendation+ Medical imaging items | 4, 12, 13, 15, 16, 21, 24, 25, 26, 28, 29, 31, 32, 33, 34, 35, 36, 38, 40, 45, 49, 50, 52, 53, 55, 56, 57, 58, 64, 65, 67, 68, 71, 72  | 34 |
| Frank, E.(5) | USA | English | Preventive Medicine | 1996 | Descriptive study | Make general comments,Title is accurate, Abstract, Introduction, Methods, Results, Discussion/Conclusion, References, Address ethical aspects, Assess manuscript presentation, Provide recommendations | 11, 13, 14, 21, 24, 25, 27, 30, 33, 45, 46, 50, 51, 52, 56, 57, 60, 64, 70, 71  | 20 |
| Freda, M.(6) | USA | English | Journal of Professional Nursing | 2009 | Survey | Organization and approach to review, Make general comments, Methods, Provide recommendations | 1, 15, 17, 30, 70 | 5 |
| Goodman, S.N.(7) | USA | English | Annals Intern Medicine | 1994 | Masked before-after study | Make general comments, Title is accurate, Abstract, Introduction, Methods, Results, Discussion/Conclusion, Assess manuscript presentation | 15, 16, 21, 24, 26, 28, 30, 31, 34, 35, 37, 39, 45, 52, 55, 63, 66  | 17 |
| Henly, S. J.(8) | USA | English | Nursing Outlook | 2009 | Descriptive study | Make general comments, Introduction, Methods, Results, Discussion/Conclusion,References, Assess manuscript presentation, Provide recommendations | 11, 12, 14, 16, 20, 27, 30, 31, 32, 47, 51, 56, 64, 66, 67, 70, 72  | 17 |
| Ho, R. C.-M.(9) | Hong Kong | English | BMC Medical Research Methodology | 2013 | Survey | Make general comments, Methods, Discussion/Conclusion, Provide recommendations | 11, 31, 33, 37, 50, 70  | 6 |
| Johnston, S. C.(10) | N/A | English | Annals of Neurology | 2007 | Randomized trial | Make general comments, Provide recommendations | 15, 70  | 2 |
| Kearney, M. H.(11) | USA | English | Research in Nursing Health | 2005 | Survey | Organization and approach to review,Make general comments, Methods, Address ethical aspects, Provide recommendations | 1, 11, 15, 16, 17, 31, 43, 57, 70 | 9 |
| Kelly, M. J.(12) | UK | English | Colorectal Disease | 2013 | Intervention | Make general comments, Abstract, Introduction, Methods, Discussion/Conclusion, Address ethical aspects, Assess manuscript presentation | 12, 14, 15, 23, 26, 33, 37, 46, 51, 57, 63, 65  | 12 |
| Kliewer, M. A.(14) | USA | English | American Journal of Roentgenology | 2004 | Descriptive study | Organization and approach to review,Make general comments, Methods, Results, Discussion/Conclusion, Assess manuscript presentation, Provide recommendations | 2, 11, 15, 16, 26, 31, 32, 45, 50, 51, 62, 64, 65, 66, 70, 72  | 16 |
| Kliewer, M. A.(13) | USA | English | American Journal of Roentgenology | 2005 | Survey | Make general comments, Assess manuscript presentation, Provide recommendations | 11, 14, 62, 64, 71 | 5 |
| Kurihara, Y.(15) | Japan | English | American Journal of Roentgenology | 2013 | Descriptive study | Make general comments, Provide recommendations | 11, 70 | 2 |
| Larson, B. P.(16) | USA | English | HAND | 2012 | Systematic review | Make general comments, Title is accurate, Abstract, Introduction, Methods, Results, Discussion/Conclusion, Address ethical aspects, Assess manuscript presentation | 11, 12, 13, 21, 22, 23, 26, 28, 31, 33, 35, 37, 39, 43, 45, 47, 48, 50, 52, 53, 54, 56, 64, 65, 67, 69  | 26 |
| Lipworth, W. L.(17) | Australia | English | Social Science & Medicine | 2011 | Qualitative study | N/A | N/A | 0 |
| Mulligan, A.(18) | N/A | English | Oral Oncology | 2005 | Qualitative study | Address ethical aspects | 61 | 1 |
| Napolitani, F.(19) | Italy | English | European Journal of Internal Medicine | 2016 | Descriptive study | N/A | N/A | 0 |
| Rostami, K.(20) | UK | English | Gastroenterology and Hepatology | 2011 | Descriptive study | Make general comments, Abstract, Introduction, Methods, Discussion/Conclusion, References, Address ethical aspects, Assess manuscript presentation, Provide recommendations | 15, 16, 24, 26, 28, 29, 30, 31, 32, 33, 34, 36, 39, 40, 46, 47, 50, 51, 56, 57, 62, 63, 70  | 23 |
| Schroter, S.(21) | UK | English | Journal of the Royal Society of Medicine | 2008 | RCT | Organization and approach to review, Introduction, Methods, Results,Discussion/Conclusion, Address ethical aspects,Provide recommendations | 2, 4, 26, 30, 32, 34, 38, 39, 45, 50, 51, 56, 72  | 13 |
| Shattell, M. M.(22) | USA | English | Journal of Nursing Scholarship | 2010 | Survey | Organization and approach to review, Provide recommendations | 2, 5, 7, 70 | 4 |
| Siegelman, S. S.(23) | N/A | English | Radiology | 1991 | Descriptive study | Make general comments, Provide recommendations | 12, 15, 72 | 3 |
| Vintzileos, A. M.(24) | USA | English | Journal of Maternal-Fetal & Neonatal Medicine | 2013 | Survey | N/ASystematic review specific items | N/A | 0 |
| **Total** |  |  |  |  |  |  |  | **264** |

b Corresponds to item number from the list of tasks (Table 2)

c Number of extracted roles statement

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