**Additional file 4**

***Quality appraisal of qualitative studies***

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **criterion/study** | **Aplin, 2013** | **Atwal, 2008** | **Atwal, 2014a** | **Atwal, 2014b** | **Cameron, 2014** | **Hibbert, 2008** | **Money, 2015** | **Nygard, 2014** | **Threapleton, 2016** | **Whitehead, 2014** |
| **1.** | **Clear statement of aims of the research** |
| 1.1 | Research goal reported? | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | Yes |
| 1.2 | Relevance of research goal stated | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |
| **2.** | **Underlying qualitative paradigm** | **Not stated** | **Interpretative approach** | **Not stated** | **Not stated** | **Not stated** | **No paradigm, thematic analysis** | **Not stated** | **No paradigm** | **Not stated, thematic analysis** | **Not stated** |
| **3.** | **Study design** | **Qualitative cross sectional** | **Qualitative cross sectional** | **Qualitative cross sectional** | **Qualitative cross sectional** | **Qualitative longitudinal** | **Qualitative cross sectional** | **Qualitative cross sectional** | **Qualitative longitudinal** | **Qualitative cross sectional** | **Qualitative cross sectional** |
| **4.** | **Qualitative design appropriate** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |
| **5.** | **Qualitative method** | **Semi structured interview** | **Semi structured interview** | **Semi structured interview/ think aloud technique** | **Semi structured interview** | **In depth and semi structured interview/ focus groups** | **Semi structured interview** | **Semi structured interview/ think aloud technique** | **Interviews/ focus groups/ participant observation** | **Semi structured interview** | **Semi structured interview** |
| **6.** | **Data collection addresses research issue** |
| 6.1 | Methods explicitly described | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |
| 6.2 | Modified methods during the study justified and described | **methods not modified** | **methods not modified** | **methods not modified** | **methods not modified** | **methods not modified** | **methods not modified** | **methods not modified** | **methods not modified** | **methods not modified** | **methods not modified** |
| 6.3 | Data collecting described | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |
| 6.4 | Saturation of data discussed | **Yes** | **Yes** | **Yes** | **Yes** | **No** | **Yes** | **Yes** | **Yes** | **Yes** | **No** |
| **7.** | **Appropriate recruitment** |
| 7.1 | Selection of participants appropriate | **Yes** | **Yes** | **Unclear** | **Yes** | **Unclear** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |
| 7.2 | Recruitment part of discussion | **Yes** | **Yes** | **Yes** | Yes | **No** | **Yes** | **Yes** | **Yes** |   | **Yes** |
| **8.** | **Researcher's influence on study discussed** | **No** | **No** | **No** | **Yes** | **No** | **Yes** | **No** | **Yes** | **No** | **Yes** |
| **9.** | **Ethical issues adequately addressed** | **Yes** | **Yes** | **Yes** | **No** | **No** | **No** | **Yes** | **Yes** | **Yes** | **Yes** |
| **10.** | **Rigorous data analysis** |   |   |  |  |  |  |  |  |  |  |
| 10.1 | Analysis process described in detail | **Yes** | **Yes** | **Yes** | **Yes** | **No** | **No** | **Yes** | **Yes** | **Yes** | **Yes** |
| 10.2 | Major themes clearly presented in findings | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |
| 10.3 | Derivation of thematic analysis clearly stated | **Yes** | **Yes** | **Yes** | **Yes** | **No** | **No** | **Yes** | **No** | **No** | **No** |
| 10.4 | Explanation of data selection from original sample | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **No** | **Yes** | **Yes** | **Yes** | **Yes** |
| 10.5 | Proper quotations from participants used | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **No** | **Yes** | **Yes** |
| 10.6 | Description of diverse cases an minor themes | **No** | **Yes** | **Yes** | **No** | **No** | **Yes** | **Yes** | **No** | **No** | **Yes** |
| **11.**  | **Clear statement of findings** |
| 11.1 | Adequate discussion of evidence | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |
| 11.2 | credibility of findings discussed | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes**  | **Yes** | **Yes** | **Yes** | **Yes** |
| 11.3 | Findings discussed in relation to research question | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |
| **12.** | **Research is valuable** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** | **Yes** |