**Supplementary materials**

**Search terms**

‘acutehospital\*’ OR 'mental hospital\*’ OR ‘psych\* hospital\*’ OR ‘acute in$patient’ OR ‘mental health in$patient’ OR ‘psych\* in$patient’ OR ‘psych\* patient\*’

AND

‘service user\*’ OR ‘\*patient\*’ OR ‘staff\*’ OR ‘worker\*’ OR ‘nurs\*’ OR ‘doctor\*’

AND

‘experience\*’ OR ‘account\*’ OR ‘observation\*’ OR ‘focus group\*’ OR ‘diar\*’ OR ‘interview\*’ OR ‘qualitative’ OR ‘perceptions\*’ OR ‘perspective\*’ OR ‘thought\*’ OR ‘feeling\*’ OR ‘understanding’

AND

‘restrain\*’ OR ‘sedat\*’ OR ‘seclu\*’ OR ‘rapid tranquilisation\*’ OR ‘blanket ban\*’ OR ‘segregat\*’ OR ‘restrict\*’.

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| Table S1 Quality assessment of studies using the Critical Appraisal Skills Programme (CASP) |
| Studies | CASP quality criteria met\* |  |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| Muir-Cochrane, 1996 | ✓ | ✓ | ✓ | ✓ | ✓ | ⨉ | ⨉ | ✓ | ✓ | ✓ |
| Johnson, 1998 | ✓ | ✓ | ✓ | ⨉ | ✓ | ⨉ | ⨉ | ✓ | ✓ | ✓ |
| Marangos-Frost & Wells, 2000 | ✓ | ✓ | ✓ | ⨉ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Meehan et al. 2000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bonner et al. 2002 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sequeira & Halstead, 2002 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sequeira & Halstead, 2004 | ✓ | ✓ | ✓ | ✓ | ✓ | ⨉ | ⨉ | ✓ | ✓ | ✓ |
| Wynn, 2004 | ✓ | ✓ | ✓ | ✓ | ✓ | ⨉ | ✓ | ✓ | ✓ | ✓ |
| Chien et al. 2005 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| McCain & Kornegay, 2005 | ✓ | ✓ | ✓ | ⨉ | ✓ | ⨉ | ✓ | ✓ | ✓ | ✓ |
| Kuosmanen et al. 2007 | ✓ | ✓ | ✓ | ✓ | ✓ | ⨉ | ✓ | ✓ | ✓ | ✓ |
| Bigwood & Crowe, 2008 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Moran et al. 2009 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Kontio et al. 2012 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Faschingbauer et al. 2013 | ✓ | ✓ | ✓ | ⨉ | ✓ | ⨉ | ✓ | ✓ | ✓ | ✓ |
| Ezeobele et al. 2014 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fereidooni Moghadam et al. 2014 | ✓ | ✓ | ✓ | ✓ | ✓ | ⨉ | ✓ | ✓ | ✓ | ✓ |
| Ling et al. 2015 | ✓ | ✓ | ✓ | ✓ | ✓ | ⨉ | ⨉ | ✓ | ✓ | ✓ |
| Muir-Cochrane et al. 2015 | ✓ | ✓ | ✓ | ✓ | ✓ | ⨉ | ✓ | ✓ | ✓ | ✓ |
| Vedana et al. 2018 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Haugom et al. 2019 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

\*Symbols: ✓ = yes, ⨉ = no/unclear. Criteria: (1) clear aims, (2) appropriate methodology, (3) appropriate research design, (4) appropriate recruitment strategy, (5) data collected in a way that addressed research aims, (6) consideration of researcher-participant relationship, (7) consideration of ethical issues, (8) data analysis sufficiently rigorous, (9) clear findings, (10) consideration of research value.

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| Table S2 Service user studies contributing to each theme and subtheme |
| Themes and sub-themes | Studies |
|  | Johnson, 1998 | Meehan et al. 2000 | Bonner et al. 2002 | Sequeira & Halstead, 2002 | Sequeira & Halstead, 2004 | Wynn, 2004 | Chien et al. 2005 | Kuosmanen et al. 2007 | Kontio et al. 2012 | Faschingbauer et al. 2013 | Ezeobele et al. 2014 | Ling et al. 2015 |
| Theme 1: The psychological effects |
| A distressing experience | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Re-traumatisation |  |  | ✓ | ✓ |  | ✓ |  |  |  |  | ✓ |  |
| The aftermath |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |  | ✓ | ✓ | ✓ |
| Theme 2: Staff communication |
| Inadequate communication | ✓ | ✓ | ✓ | ✓ |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Effective communication |  |  |  |  |  |  | ✓ |  |  |  |  |  |
| Theme 3: Loss of human rights |
| Power struggle | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Imprisonment | ✓ | ✓ |  | ✓ |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dehumanisation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Theme 4: Making changes |
| Communication and debrief |  | ✓ | ✓ |  |  |  | ✓ | ✓ | ✓ | ✓ | ✓ |  |
| Preventing restrictive practices |  | ✓ |  |  |  |  |  |  |  | ✓ | ✓ | ✓ |
| Improving restrictive practices |  | ✓ |  |  |  |  |  |  | ✓ |  |  | ✓ |
| Alternatives to restrictive practices |  | ✓ |  |  |  | ✓ |  |  | ✓ | ✓ |  | ✓ |

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| Table S3 Staff member studies contributing to each theme and sub-theme |
| Themes and sub-themes | Studies |
|  | Muir-Cochrane, 1996 | Marangos-Frost & Wells, 2000 | Bonner et al. 2002 | Sequeira & Halstead, 2004 | McCain & Kornegay, 2005 | Bigwood & Crowe, 2008 | Moran et al. 2009 | Fereidooni Moghadam et al. 2014 | Muir-Cochrane et al. 2015 | Vedana et al. 2018 | Haugom et al. 2019 |
| Theme 1: The need for restrictive practices |
| The last resort | ✓ | ✓ | ✓ |  | ✓ |  | ✓ |  | ✓ | ✓ | ✓ |
| Avoiding restraint | ✓ | ✓ |  |  | ✓ | ✓ | ✓ |  |  | ✓ | ✓ |
| Restraint is unavoidable | ✓ | ✓ |  |  | ✓ | ✓ |  |  | ✓ | ✓ |  |
| Theme 2: The psychological impact |
| Distress |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  |
| Mental conflict |  | ✓ | ✓ | ✓ |  | ✓ | ✓ |  | ✓ | ✓ | ✓ |
| Nobody to talk to |  |  | ✓ | ✓ |  | ✓ | ✓ |  |  |  | ✓ |
| Theme 3: Decision making |
| Risk assessment | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |  | ✓ | ✓ | ✓ | ✓ |
| Availability of staff | ✓ | ✓ |  |  |  |  | ✓ |  | ✓ | ✓ | ✓ |
| Availability of alternatives | ✓ | ✓ |  |  |  |  |  |  |  |  |  |
| Theme 4: Making changes |
| Somebody to talk to |  |  | ✓ | ✓ |  | ✓ |  |  |  | ✓ | ✓ |
| A safer alternative |  |  |  | ✓ | ✓ |  |  |  | ✓ | ✓ | ✓ |