Supplementary Table 3: four recoveries and routine outcome measures.

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| **Four Recoveries** | **Definition** | **Goals** | **Measures** |
| **Forensic Recovery** | Ability to live safely with minimal secure care | Reduced need for therapeutic security | DASA; DRILL; HCR-20 dynamic; DUNDRUM-3; DUNDRUM-4; |
|  | Minimal substituted decision making | Increasing autonomy | MacArthur Competence Assessment Tools.  Conditional discharge; absolute discharge. |
|  |  | Increasing responsibility | Concordance (minimal gap between staff rated and patient rated DUNDRUM-3 and DUNDRUM-4) |
|  |  | Stability, insight, leave, working alliance, social integration | DUNDRUM-4 |
| **Symptomatic Recovery** | Subjective and objective signs and symptoms of illness or disorder | Reducing suffering | PANSS  YMS  HADS |
|  |  | Reducing anger | Novaco B  DASA |
|  |  |  |  |
|  |  |  |  |
| **Functional Recovery** | Fulfilling roles in social, occupational and family life. | Increasing independence | GAF / SOFAS  AMPS-Process  MCCB |
|  |  | Resilience | Treatment completion e.g. DUNDRUM-3; |
|  |  | Stress tolerance and coping skills | SAPROF |
|  |  | Adjustment | CGI-C |
| **Personal Recovery** | Sense of personal control or agency | Working alliance and trust | Perceived coercion  WAI / ITP |
|  | Satisfaction with life and environment |  | EssenCES WHO-QOL |
|  | Feeling Safe |  | EssenCES |
|  | Hope | Motivation | DUNDRUM-4 item 7. |

DASA: Dynamic Appraisal of Situational Aggression; DRILL: DUNDRUM Restrictions and Intrusions on Liberty Ladders; HCR-20: Historical, Clinical and Risk Management-20; PANSS: Positive and Negative Symptom Scale; YMS: Young Mania Scale; HADS: Hamilton Anxiety and Depression Scale: GAF: Global Assessment of Function; SOFAS: Social Occupational Function Assessment Scale; AMPS: Assessment of Motor and Process Skills; MCCB: Matrix Consensus Cognitive Battery; SAPROF: Structured Assessment of PROtective Factors for Violence; CGI-C: Clinical Global Impression-Corrections; WAI: Working Alliance Inventory; ITP: Interpersonal Trust in Physician; EssenCES: Essen Climate Evaluation Scale; WHO-QOL: World Health Organisation Quality of Life.