The Single Assessment Tool (SAT): A National Clinical Information System to Support Older Persons Care

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Single Assessment Tool (SAT) for Older People

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Why do we need a Single Assessment Tool?

• Ireland does not currently have one standardised care needs assessment for older people
  • Different assessment tools in use geographically
  • Can lead to variations in outcome and inequity for service users
  • All assessment tools are currently paper based
  • Difficulty sharing information
  • Lack of connectivity between hospital and community

• National & international best practice advocates standardised care needs assessment

• Single standardised assessment required to provide a standardised language of assessment across hospitals and community.
SAT Selection

• Following introduction of Nursing Home Support Scheme (NHSS- A Fair Deal) legislation SAT Working Group (multi-agency, multi-disciplinary) to agree on standardised assessment. Replace interim CSAR

• Extensive consultation and research included;
  • Literature Review
  • Long list of Assessment Tools compiled, reviewed and then shortlisted.
  • Shortlist of 3 tools reviewed against 37 criteria resulting in interRAI selection

• interRAI piloted in 2 locations across Long Term Care, Community Health Centres and Acute Hospitals.

• 2012- Final Report of Working Group recommended the interRAI suite of tools as most fit for purpose for Ireland.
What is interRAI?

• Collaborative network of researchers in over 35 countries
• Non-profit corporation
• Key interests:
  • Promoting evidence informed clinical practice / policy decision-making
  • Research and quality (e.g. cross-national comparisons)
  • Instrument development
  • Support implementation in other nations
• Holds copyright to interRAI assessment instruments
• Grants royalty-free licenses to governments / care providers in exchange for de-identified data
• Licenses software vendors around the world
  • [www.interrai.org](http://www.interrai.org)
Countries using interRAI

North America
Canada, USA, Mexico, Belize, Cuba

Europe
Iceland, Norway, Sweden, Denmark, Finland, Netherlands, Germany, UK, Switzerland, France, Poland, Italy, Spain, Belgium, Estonia, Lithuania, Czech Republic, Austria, Portugal, Ireland

Middle East/Asia
Israel, India, Lebanon

South America
Chile, Brazil, Peru

Africa
Ghana

Far East/Pacific Rim
Japan, South Korea, Taiwan, China, Australia, Hong Kong, New Zealand, Singapore
Comprehensive Assessment - interRAI Domains

SAT Assessment Process to Inform Care Planning

- Decision supports (auto-generated)
- Comprehensive electronic assessment approach
- Standardised assessment – reduced variability

- Clinical Assessment Protocols (CAPs)
- Outcome Scales
- Quality Indicators

- Intake & identification information
- Cognition
- Communication & Vision
- Mood & Behaviour
- Psychosocial well-being & Social Supports
- Continenence
- Environmental assessment
- Medications, treatment & procedures
- Skin condition
- Oral and nutritional status
- Health conditions & disease diagnosis
- Functional status
- Discharge potential & overall status

Feidhmeanacht na Seirbhise Sláinte
Health Service Executive

Seirbhís Sláinte
Níos Fearr á Forbairt
Building a Better Health Service
SAT Information System (SATIS)

- 2012- Business Case for SAT Information System (SATIS) submitted and approved by HSE ISD Management Team and CMOD
- Additional funding sought and received from Atlantic Philanthropies
- Contracts signed with external vendors for development of SAT Information System (SATIS) & e-Learning system in Q2 2013
What is the SAT Information System (SATIS)

• SATIS is an electronic **Clinical Information System (CIS)** used for the holistic care needs assessment and care planning for older people.

• Care planning supported by interRAI comprehensive assessments and **interRAI Clinical Decision Support Systems (CDSS)** which support better informed decision-making for clinicians and healthcare managers.

• **SATIS** employs Cloud Computing services with encrypted wireless network connections using Wireless Protected Access [WPA]/ Virtual Protected Network (VPN)

• Access via 3g, LAN and MiFi
SATIS

• Web based system with online / offline capability

• Components:
  • Client record
  • Consent
  • interRAI Assessment
  • Client Summary Report
  • Photos and documents
  • Narrative Notes
  • Care Planning

• Assessments completed on SATIS by trained Assessors using HSE provided tablet devices

• Training & Education programme developed for all SATIS users i.e. SAT Assessors, Decision Makers, etc.

• **Mandatory electronic competency evaluation** for all SAT Assessors
Outputs generated from the assessment

• Inbuilt algorithms generate scales

• Clinical Use
  o Evaluate current status/outcomes of the person
  o Use to support decision-making in care planning/service provision
  o Evaluate care/service provision

• Aggregated Use
  o Track outcomes of care
  o Performance appraisal for quality improvements/quality monitoring/benchmarking/client profiling
Applications of SAT assessment
One take of Information – Many Uses

Care Planning

Policy

Screening

Research

Quality

ASSESSMENT
Inbuilt Clinical Decision Supports Systems – 27 Clinical Assessment Protocols (CAPs)

FUNCTIONAL PERFORMANCE
1. Physical Activities Promotion
2. Instrumental Activities of Daily Living
3. Activities of Daily Living
4. Home Environment Optimisation
5. Admission Risk (Long-Term Residential Care)
6. Physical Restraints

COGNITION/MENTAL HEALTH
7. Cognitive Impairment*
8. Delirium
9. Communication
10. Mood
11. Behaviour
12. Vulnerability

SOCIAL LIFE
13. Leisure and Social Activities
14. Family Carer Support
15. Social Relationships

CLINICAL ISSUES
16. Falls
17. Pain
18. Pressure Ulcer
19. Cardio-Respiratory Conditions
20. Undernutrition
21. Dehydration
22. Feeding Tube
23. Health Promotion
24. Appropriate Medications
25. Tobacco and Alcohol Use
26. Urinary Incontinence/Incontinence Promotion
27. Bowel Conditions
Inbuilt Clinical Decision Supports Systems – 13 Scales and Outcome measures

- Activities of Daily Living (ADL) Hierarchy Scale
- Body Mass Index
- Cognitive Performance Scale (CPS)
- Communication Scale
- Changes in Health, End-Stage Disease & Signs & Symptoms (CHESS)
- Depression Rating Scale (DRS)
- IADL Performance Scale
- IADL Capacity Scales
- Geriatric Screener
- Pain Scale
- Pressure Ulcer Rating Scale (PURS)
- Method for Assigning Priority Levels (MAPLe)
- Resource Utilisation Group (RUG) III
SAT Implementation - Live Testing

- Following a significant amount of internal UAT the project proceeded to 6 weeks Live Test in May 2015 in 4 priority acute hospitals – Beaumont Hospital, Tallaght Hospital, Cork University Hospital, University Hospital Galway
- Dual processes where SAT assessments completed alongside CSAR processes
- 115 SAT assessments completed nationally
- Data collated and analysed by SAT national project team
SAT implementation – National SAT Pilot

• 11 month SAT Pilot Sites
  • Beaumont Hospital, Tallaght Hospital, University Hospital Galway

• Pilot Duration
  • Commenced May 2016 – April 2017
  • Nomination, equipping & training of SAT Assessors in hospitals (and later community)
  • Assessments of patients in the hospitals seeking access to NHSS/ HCPs using the SAT system
  • **596 clients in total - 537 applying for NHSS and 59 for home care**
Family Carer Support prior to admission

<table>
<thead>
<tr>
<th>NHSS</th>
<th>HCP</th>
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<tr>
<td>87%</td>
<td>93%</td>
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<tr>
<td>of patients had family carer support</td>
<td>of patients had family carer support</td>
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In receipt of home supports prior to admission

- NHSS: 41% in receipt of home support, 59% not in receipt of home support
- HCP: 36% in receipt of home support, 64% not in receipt of home support

Patient Gender

- Female: 54%
- Male: 46%

Reason for Assessment

- NHSS: 90%
- HCP: 10%

Patient Age

- Minimum Age: 37 years
- Maximum Age: 101 years
- Average Age: 82 years
SAT Implementation

- SAT Pilot Report available following conclusion of pilot
- National SAT implementation to be progressed 2018-2019
- SAT recommended by HIQA to underpin new Statutory Home Supports Scheme (HIQA 2017)
- SAT will be the new national standard for the assessment of all older people seeking support under:
  - Nursing Home Support Scheme
  - Home Care support.
- SAT will replace Common Summary Report (CSAR) in both Acute and Community sites for access to the above schemes across all CHOs.
**SAT Benefits**

- SAT supports effective care planning with the older person.
- Provides information on unmet needs.
- Supports health professionals by prioritising access to services based on assessed need & facilitates the provision of integrated care.
- High quality and reliable data available which can be easily shared between hospital and community sectors.
- Aggregated data will be available to produce measures of outcome, quality of care and eligibility criteria for access to services.
- SAT will deliver a fully developed, robust, reliable, standardised multi-dimensional electronic assessment system.
Thank You

Any Questions?