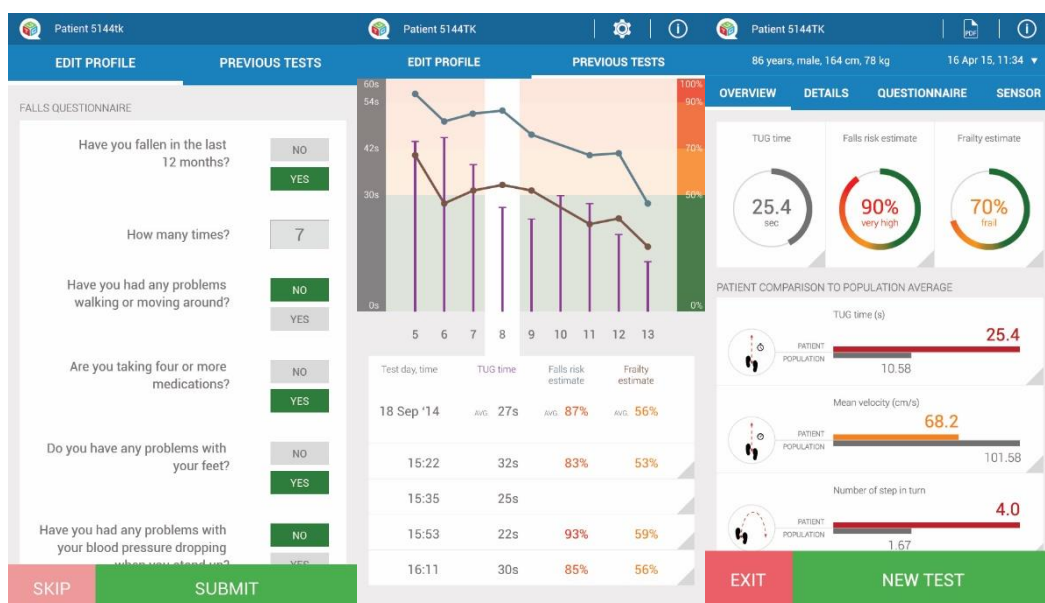


## Executive summary: Irishtown PCT – Kinesis QTUG™ trial

- 26 QTUG™ assessments were completed in a cohort of community dwelling older adults at the Irishtown Primary Care Centre-
- QTUG™ was used to assess each patient’s risk of falls as well as to identify any mobility or gait impairments (as compared to average values for patient’s age and gender).
- QTUG™ provided an objective assessment of gait and mobility for all patients using the standard TUG test, instrumented with inertial sensors.
- Each patient completed a questionnaire on their history of falls in the past 12 months. These data were used to validate the performance of the fall risk assessment tool.
- Results for falls risk assessment for each test are provided:
  - QTUG™ correctly identified 18 of 26 tests as being a ‘faller’ on a ‘non-faller’ yielding a **69.23%** accuracy in falls risk assessment.
  - 9 records were identified as **Low risk (0-49%)**, 3 were identified as **Medium risk (50-69%)**, 4 as **High risk (70-89%)** and 11 as **Very high risk (>90%)**: 9.
- QTUG™ also provides a statistical estimate of patients Frailty level:
  - 4 records were classified as **Non-frail (0-49%)**, 3 as **Transitional (50-69%)**, 5 as **Frail (70-89%)** and 13 as **Very frail (>90%)**.
- QTUG™ automatically compared the gait and mobility of each patient, against average values for their age and gender. *This allowed identification of specific gait and mobility impairment for a number of patients*, to allow tailoring of therapy/intervention.



- **Benefits**
  - QTUG™ provides a more accurate and objective method to assess mobility, falls risk and frailty in community dwelling older adults, compared to current methods.
  - QTUG™ standardises assessment across a team of clinicians.
  - QTUG™ improves ability to assess patient’s response to treatment/rehabilitation.