

I'm not robot!



currently at risk'.At step 1 there are four mobility options with 'tick all applicable' instructions. If only the blue-coded 'normal skin' option is ticked the instructions are to allocate the patient to the green assessment decision – the 'no pressure ulcer not currently at risk' pathway. If any other skin status options are ticked (coded yellow and pink), the instructions are to progress to step 2 full assessment (see Appendix 30).Step 2 includes assessment of the following:analysis of independent movement: five options, including four coded orange (with varying limitations to frequency and extent of independent movement) and one coded yellow (making major position changes frequently)detailed skin assessment of 13 skin sites (with the option for 'other' skin sites), with three options for each, including 'normal skin' coded blue, 'vulnerable skin' coded orange and 'pressure ulcer category 1' coded pinkprevious pressure ulcer history: two options, including 'no known pressure ulcer history' coded blue and 'pressure ulcer history' coded yellow, with presence of scar (if applicable only) coded pinksensory perception: two options, including 'no problem' coded blue and 'patient is unable to feel and/or respond to discomfort from pressure' coded orangeperfusion: three options, including 'no problem' coded blue and two options coded orange: 'conditions affecting central circulation, for example shock, heart failure and hypotension' and 'conditions affecting peripheral circulation, for example peripheral vascular/arterial disease'nutrition: five options, including 'no problem' coded blue and four options coded yellow: 'unplanned weight loss', 'poor nutritional intake', 'low BMI' and 'high BMI'moisture: three options, including 'no problem/occasional' coded blue and two options coded yellow: 'frequent' and 'constant'diabetes: two options, including 'not diabetic' coded blue and 'diabetic' coded yellow.Step 3 involves allocation of an assessment decision as outlined in Table 38.A nurse was defined as an expert if he or she was a member of the participating trusts' tissue viability teams (tissue viability nurse consultant/specialist/clinical research nurse). Participating expert nurses attended an initiation training day at which the PURPOSE-T was presented, the instruction manual was provided and they used the PURPOSE-T through vignettes and role play until they were confident in how to use it. In practice, all expert nurses involved in recruitment and data collection were clinical research nurses with specialist tissue viability knowledge gained through their role in other PURPOSE programme research projects.The expert nurses in the acute sector identified a range of wards, sought verbal permission from ward managers to undertake the research and arranged a mutually convenient date with a qualified member of the ward team to undertake training and patient assessment. In the community sector the expert nurses sought volunteers from the community nursing service and arranged a mutually convenient time to undertake training and patient assessment.All participating ward/community nurses underwent training in the use of the PURPOSE-T from the expert nurses. This included a full explanation of the PURPOSE-T and the instruction manual followed by an invitation to undertake an assessment using the same vignettes that were used by the expert group nurses in their training, so that they were familiar with the instrument. Either the ward/community nurse or the ward/community team budget received a per-patient or a per-hour payment to cover the funding required to release the ward/community nurse from usual clinical duties.Inclusion criteriaInpatient in the acute setting or community nursing patient in the community setting.Provide written informed consent/verbal witnessed consent/consultee agreement.Expected to be available for the PURPOSE-T retest.Exclusion criteriaPatients in obstetric, paediatric, day case surgery or psychiatric settings (acute or community).Patients deemed by the attending health-care professional to be too unwell to be approached and/or complete the study assessment schedule.Patients were purposively sampled ensuring a similar number of hospital and community patients and representation of patients across four broad levels of risk (as defined by their mobility and ulcer status) as follows:no mobility restrictionsome mobility/activity limitationsbedfast/chairfastpressure ulcer category 1 or above.Each ward/community nurse was asked to identify four patients on his or her caseload, one from each of the four broad levels of risk when possible.Ward-/community-based nurses identified suitable patients from their area of practice. A full verbal explanation of the study and a patient information leaflet (see Appendix 32) were provided by the attending clinical staff or a member of the tissue viability team and assenting patients were then invited to provide informed, written consent (see Appendix 33). When patients were capable of giving consent but physically unable to complete the written aspects of the consent form, witnessed consent was obtained (see Appendix 34). In addition, to ensure that the study population was representative of the clinical population assessed in the course of usual care, when patients lacked capacity ethical approval was given for consultee agreement (see Appendices 35 and 36). Assessment of eligibility and informed consent was undertaken by a member of the tissue viability team. Patients who both were eligible for study participation and provided informed consent/consultee agreement were registered centrally using the CTRU automated 24-hour telephone registration system.Each patient recruited to the field test was assessed by only one pair of assessors.At baseline, demographic and clinical data were recorded for each patient by the expert nurse. Baseline data included type of NHS facility (hospital/intermediate care/community nursing team), type of admission/referral (e.g. elective/acute), ward speciality (hospital patients only), date of birth, gender and ethnicity. Clinical assessment included the subscales of the Braden scale51 and the Waterlow scale.50At baseline the PURPOSE-T was completed and recorded by a member of the ward/community team and the expert nurse, blind to each other's assessment. This incorporated the detailed skin assessment and, when applicable, pressure ulcer classification.1 The blinding was maintained through the design of a sealable research form. Both nurses were instructed to complete their assessment and seal the form prior to collection.Finally, the expert nurse undertook a second visit and completed the PURPOSE-T and recorded clinically relevant changes to the patient's condition since the baseline assessment. The PURPOSE-T assessment was carried out blind to the baseline assessment, again maintained through the sealed research form.The length of the test-retest interval was planned to be short enough to ensure that clinical change in the pressure ulcer was unlikely to occur but sufficiently long to ensure that the expert nurse did not recall his or her responses from the first assessment. Nurses were asked to plan their retest visit between 1 and 3 days after the baseline visit for hospital patients and between 1 and 7 days after the baseline visit for community patients, taking into account the anticipated recovery/deterioration/stability of each patient's condition and, for hospital patients, length of stay.The expert nurses involved in data collection also kept field notes of their experience of using the PURPOSE-T in clinical practice.The PURPOSE-T identifies three groups of patients: those patients who are not currently at risk of developing a pressure ulcer, those patients who have no pressure ulcer but who are 'at risk' and require primary prevention and those patients with an existing pressure ulcer/scar who require secondary prevention/treatment. For the purposes of describing the study population and to assess convergent validity with other risk assessment tools, 'at risk' is defined as all patients 'who have no pressure ulcer but who are at risk' and all patients who have a 'pressure ulcer category 1 or above or scarring from previous pressure ulcers'. A patient is therefore defined as 'not at risk' if his or her outcome within the raw data was recorded as 'no pressure ulcer not currently at risk'. The cut-point used to identify patients at risk was  $\leq 18$  for the Braden scale193 and  $\geq 10$  for the Waterlow scale.50In the study population we aimed to recruit approximately 25% of patients 'not at risk' and 75% 'at risk'. In a two-rater study, the numbers of subjects required to detect a statistically significant kappa (two-sided p-value  $\leq 0.05$ ) with 90% power and 75% assessed as being 'at risk', assuming a null hypothesis value for kappa, are given in Table 39.To establish whether the tool gives a high degree of beyond-chance agreement, we tested against a null value of 0.6. With 90% power, 199 patients were required. To allow for withdrawal/non-compliance in paired assessments of 15%, we aimed to recruit 230 patients.No examples of formal sample size estimation methods for the evaluation of screening instruments were identified in the literature. Therefore, literature relating to the psychometric evaluation of rating scales was considered. The 'rule of thumb' recommendation of 5-10 patients for every item in a questionnaire was used to estimate the sample size of 115-230 patients.194,195 The proposed sample size of 230 to assess the inter-rater reliability of the instrument, with  $> 95\%$  expert nurse data compliance (based on previous research experience), was expected to provide a sufficient number of patients to assess the validity of the risk assessment instrument.Data completeness was assessed for each element of the PURPOSE-T including the percentage of missing item-level data and risk categories allocated.We produced kappa (with 95% CI), prevalence-adjusted bias-adjusted kappa (PABAK) and the maximum value of kappa (kmax) statistics to assess the inter-rater and test-retest reliability for agreement of risk status overall (i.e. at risk/not at risk), cross-tabulations of overall risk status by rater/retest were produced. We also examined the extent of agreement for individual PURPOSE-T items using cross-tabulations by type of rater/retest. In addition, we produced kappa (with 95% CI) and weighted kappa statistics to assess the inter-rater reliability for agreement of the PURPOSE-T outcome on the 3-point scale (no risk, at risk, current pressure ulcer or pressure ulcer scarring) and produced cross-tabulations of PURPOSE-T outcome by type of rater/retest. We used guidelines to interpret kappa analysis as detailed in Table 40.196,197Table 41 details the psychometric tests undertaken. Convergent validity assesses the degree to which constructs (or scores on a measure) expected to be related are, in fact, related. The degree to which assessment of 'at risk' and 'not at risk' is related to risk assessment status as assessed using the Braden and Waterlow risk assessment scales was determined, using cross-tabulations.In addition, cross-tabulations of corresponding items between the PURPOSE-T and the Braden scale and/or the Waterlow scale were produced and correlation coefficients were calculated. The Spearman rank correlation coefficient was used when each of the items being compared had more than two levels, for example the Braden activity and Braden mobility subscales each have four levels and were both compared with the PURPOSE-T analysis of independent movement (which had been reduced to a 3-point scale). The phi correlation coefficient was calculated when dichotomous variables were compared, for example risk status on the Braden scale compared with risk status on the PURPOSE-T. For exploratory purposes, the following hypotheses were used as guides to the magnitude of correlations, as opposed to pass/fail benchmarks: high correlation  $r > 0.7$ ; moderate correlation  $r = 0.3-0.7$ ; low correlation  $r < 0.3$ . The inter-rater and test-retest agreement was 'very good' for the assessment decision overall as determined by kappa. The percentage agreement for the assessment of 'problem/no problem' for the eight risk factors (mobility, skin, previous pressure ulcer, sensory perception, perfusion, nutrition, moisture and diabetes) ranged from 79.1% to 94.2% for inter-rater reliability and from 87.0% to 93.9% for test-retest reliability. Moderate to high associations were demonstrated for convergent validity, assessed by comparison with the same or similar constructs on other risk assessment scales (Braden and Waterlow). A known group comparison was not possible because of the small number of patients recruited from elective wards. In addition, field notes recorded by the expert nurses highlighted positive and problem aspects of using the tool in the clinical environment. Negative aspects included difficulties in assessing some of the PURPOSE-T items and concerns about reliability, but these were not evidenced in the formal evaluation of inter-rater and test-retest reliability.It is of note that both expert and ward/community nurses allocated the majority of patients (> 95%) to the 'not at risk' category, with only 'yellow' and 'blue' boxes completed (see Tables 45-47). This means that these patients did not have skin, sensory perception, perfusion or major mobility problems but were characterised by minor mobility limitations with or without nutritional deficits, moisture problems or a history of previous pressure ulcers (with no scar). This is interesting because these factors do not emerge consistently in multivariable modelling (see Phase 1: Systematic review of patient risk factors for pressure ulcer development, Emerging risk factor domains/subdomains), were still judged to be important in the consensus development process, but colour coded as 'yellow' (i.e. requiring clinical judgement). It may be that in practice they are judged to be not important in the absence of the other key risk factors. The next stage of the development process will involve the dissemination of the PURPOSE-T into routine NHS care and this will facilitate large-scale multivariable modelling and predictive validity testing, allowing further refinement of the tool.The main differences between the PURPOSE-T and other widely used risk assessment tools are as follows:a risk factor Minimum Data Set is incorporated to facilitate multivariable modellinginvolves a screening stage for all patients and a full assessment stage for those at potential/actual risk or with an existing pressure ulcer. This allows those who are obviously not at risk to be quickly identified, preventing the need for a more detailed full assessment, which will save time in clinical practicea risk profile is identified for each patient (rather than a score condensed from different aspects of risk) to support care planning, with interventions selected in response to specific risk factorswhere there is incorporation of the symptom of pain as a risk factorcolour is used to aid decision-makingthere is a clear distinction between primary and secondary prevention: patients with an existing pressure ulcer or scarring from a previous ulcer are allocated to a secondary prevention and treatment pathway. This has the potential to facilitate escalation of interventions to prevent deterioration in existing pressure ulcers and promote healingdevelopment was based on a systematic review of the risk factor evidence and the pain cohort studydevelopment involved international and interdisciplinary experts in the fieldthe tool was developed in partnership with service users.Pressure Ulcer Research Service User Network UK members have been involved at various stages throughout this work package:involvement in the consensus study (with particular emphasis on the acceptability of pressure ulcer risk assessment elements for patients)contribution to the development of the case studies for the Risk Assessment Framework pre-test studyreviewing the Risk Assessment Framework following the pre-testsupporting the development of the Risk Assessment Framework clinical evaluation study, particularly relating to the development of patient information leaflets.This project has provided some specific examples of the impact of PPI. The impact can be clearly seen in changes that were made to the Risk Assessment Framework as a direct result of PURSUN UK members' input, such as the exclusion of albumin, the inclusion of pain and a previous severe pressure ulcer and changes to the wording of the sensory perception domain. PURSUN UK members also highlighted the need to adapt the Risk Assessment Framework so that it can be used by patients and carers at home. This is being incorporated into our next programme of work.The risk assessment work package comprising a systematic review of pressure ulcer risk factors, consensus study, conceptual framework development, design and pre-test and clinical evaluation led to the development and validation of a new Risk Assessment Framework, the PURPOSE-T [see accessed July 2015]., with an underpinning risk factor Minimum Data Set. The PURPOSE-T comprises two stages of assessment, the screening stage for all patients and the full assessment stage for patients at potential/actual risk or with an existing pressure ulcer. It facilitates the identification of a risk profile rather than a condensed score and allows patient to be allocated to a not currently at risk, primary prevention (at risk) or secondary prevention and treatment pathway (existing pressure ulcer or scarring from a previous pressure ulcer). The next stage of the development process will involve dissemination of the PURPOSE-T into routine NHS care, which will facilitate large-scale multivariable modelling and predictive validity testing, allowing refinement of the tool. The conceptual framework also provides a foundation for a programme of bioengineering and translational research to develop improved assessment techniques with greater precision for clinical use. The work package makes a key contribution to the pressure ulcer field and has the potential to directly impact risk assessment in clinical practice. The research methodologies utilised may also have a broader application to other relevant areas of health-care research.

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