Appendix 1: Assessment Instruments

The following instruments will be incorporated into participant completed questionnaire packs.

1. **Brief Pain Inventory [35]**

   The BPI is a validated and widely used tool for assessing the impact of cancer pain. It allows patients to rate the severity of their pain and the degree to which their pain interferes with common dimensions of feeling and function and was initially developed to assess pain related to cancer.

2. **7-point global rating change of pain [28]**

   Using the global rating of change scale the patient can indicate whether, and the extent to which, there has been a change in pain for the worse or better since the last visit, with ratings indicating on a 7-point verbal rating scale ranging from “much worse” to “much better”.

3. **Patient Pain Questionnaire [38]**

   The Patient Pain Questionnaire (PPQ) is a 16 item scale that assesses the patient’s knowledge and experience in managing chronic cancer pain. The PPQ includes two sub-scales: 9 items on the ‘knowledge’ subscale measuring patients knowledge of, and attitudes to, cancer pain and medications; and 7 items on the ‘experience’ subscale measuring current pain and pain relief, pain over the last week, expectation of future pain, sense of control over pain and distress related to pain. All of the items score 0-10 on a numerical rating scale with higher scores indicating poorer experience of pain, knowledge and attitudes.

4. **EQ-5D [39] and EORTC QLQ-C30 [40]**

   General and cancer specific health related quality of life will be assessed.

   The EQ-5D (5 level) is an accepted standardised, generic, measure of health-related quality of life that provides a single index value for describing and valuing health status. It provides a simple descriptive profile consisting of the following five dimensions: usual activities, self-care, mobility, pain/discomfort and anxiety/depression, each with three response options (no problems, some problems and extreme problems).

   The EORTC QLQ-C30 is an accepted and standardised questionnaire developed to assess the quality of life of cancer patients. The QLQ-C30 is composed of five functional scales, three symptom scales, six symptom items (comprising of one question) and global health status (a measure of overall QoL).

5. **Health Economics questionnaire**

   A specially-developed health and social care resource use questionnaire will be completed by participants at baseline and follow-up. This was tested in a previous IMPACCT patient survey and found to be acceptable and to incur minimal missing data. The questionnaire takes a few minutes to complete and asks participants to recall use of primary and community (e.g. GP visits, nurse contact, etc.) and secondary or hospital (e.g. visits to A&E, hospice stays, etc.) care in the previous six weeks.