

# Guidance for reporting regimen outcome summary (noncurative) in the SACT dataset

This document aims to provide guidance to clinicians reporting regimen outcomes for non-curative treatments in the systemic anti-cancer therapy (SACT) dataset. This guidance was produced with the collaboration of clinicians to address potential differences in interpretation of 'outcome data', whilst being mindful of the practicalities of recording this in routine clinical practice. We appreciate that non-curative treatment benefit assessment is a complex question and may be considered, to a certain extent, subjective. Each patient is unique; ultimately the appreciation of treatment benefit reported is with the clinical staff.

Note that this document focusses only on solid tumours.

The document is made of three parts:

- 1. Background and introduction
- 2. Considerations for assessing non-curative treatment benefit
- 3. Patient examples

# Background and introduction

The SACT dataset collects data in four main areas:

- the patient & their tumour,
- where they were treated and who initiated their treatment,
- treatment details, and
- clinical outcomes.

Treatment outcomes are a key aspect of the SACT dataset. The collection of SACT specific outcomes allows the team to design analyses to evaluate treatment effectiveness and identify variations in clinical practice. Additionally, regimen outcome data are reported as part of our work to support Cancer Drugs Fund (CDF) re-appraisals.

'Treatment outcomes' refer to the clinical outcomes which result from the administration of a treatment regimen in the SACT dataset.

While collecting 'benefit' data will likely bring variability at individual level, it is reasonable to expect to see trends at a population level that will be relevant to clinicians, and other groups.



#### Relevant SACT fields

1) Intent of treatment

The **intent of treatment** itself is captured as a separate data item (dataset item 15) and includes curative or palliative options:

- 1. Curative aiming to permanently eradicate the disease
- 2. Palliative aiming to extend life expectancy
- 3. Palliative aiming to relieve and/or control malignancy related symptoms
- 4. Palliative aiming to achieve remission
- 5. Palliative aiming to delay tumour progression
- 98. Other
- 99. Not known

Note that multiple answer options can be selected for this item.

2) Treatment outcomes

The **treatment outcomes** are captured differently depending on treatment intent:

**For curative treatments**, (dataset items 57 and 58): clinicians should state whether the treatment was completed as planned (Yes/No). If the treatment was not completed as planned, then further details are required on the reason(s) why the treatment was not completed.

**For non-curative treatments**, clinicians are asked to specify whether the patient has 'benefitted' from receiving the treatment (Yes/No). No further information is required for these treatment outcomes at this stage (dataset item 60). **This item is the focus of this guidance document.** 

### Considerations for assessing non-curative treatment benefit

We recommend assessing the presence or absence of treatment benefit in light of the original intent of the treatment reported in the dataset (see list above for "palliative" options).

For example, if the treatment intent was '4. Palliative - aiming to achieve remission', then the benefit recorded should reflect whether the treatment achieved the goal of remission.

If the original aim of the treatment has been met, this is evidence that the treatment has been beneficial, i.e. "Yes" should be selected. If you have selected multiple aims for 'treatment intent', then we recommend that you consider an overall assessment of the success of the aims, alongside the considerations below.



Where it is not completely clear if the treatment intent has been met, or it has not been fully met, the following elements can also be considered:

- Response to treatment
- Impact on symptoms
- Impact on quality of life

To determine true benefit, any clinical benefit to the patient should always be weighed against any toxicities experienced as part of the treatment and their impact on the patient's quality of life.

Below are some examples of what elements may contribute toward a potential benefit:

### Tumour

- Biochemical or radiological response
- Unaltered or decreased tumour size
- Reduction in tumour markers
- Prolongation of progression-free survival (PFS)

#### Patient

- Improvement of malignancy related symptoms (as observed and self-reported)
- Manageable treatment-induced toxicities (as observed and self-reported)

Although we acknowledge that patients may gain varied levels of benefit from treatment over time, for routine reporting through the SACT dataset it is only assessed when the treatment regimen is complete. Therefore, the entire period of treatment administration must be evaluated to answer the 'treatment benefit' data set question.



# Patient examples

The patient examples described below illustrate common patient profiles encountered by oncologists. These are hypothetical and simplified for this exercise and aim to provide examples of treatment benefit in a real-life setting. These are a snapshot of the patient's medical situation when the assessment is being recorded. However, the assessment must be made considering the **entirety of the treatment period**. Note that the focus of this document is on solid tumours only.

# **Breast patients**

|                        | Tumour<br>type                    | Patient characteristics | Treatment intent (SACT item)  | Response assessment   | Toxicity   | Outcome on completing treatment   | Suggested<br>outcome (SACT<br>item #60) |
|------------------------|-----------------------------------|-------------------------|---|---|--|---|---|
| Patient A Chemotherapy | Breast with<br>lung<br>metastases | Patient well,<br>PS1    | Palliative - aiming to relieve and/or control malignancy related symptoms | Reduction in number and size of metastases on CT scan, 4-5 months of good symptom control prior to rapid disease progression after the 8th cycle of treatment | Neutropenic sepsis after course 4, successfully treated with antibiotics | Dies from disease<br>progression 20 days<br>after the 8 <sup>th</sup> cycle of<br>treatment | Benefit                                 |



| Patient B         | Breast with | Pleural effusion | Palliative -  | Reduction in    | Not recorded                     | Not known | Benefit    |
|-------------------|-------------|------------------|---|-----------------|----------------------------------|-----------|------------|
| Chemotherapy &    | lung        | and very         | aiming to   | symptoms        |                                  |           |            |
| drainage of fluid | metastases  | breathless, PS1  | relieve and/or control malignancy related symptoms and aiming to extend life expectancy |                 |                                  |           |            |
| Patient C         | Breast with | PS1              | ?   | Patient feels   | Manageable – well tolerated      | Not known | Benefit    |
| 8 cycles of       | brain       |                  |   | well – stable   |                                  |           |            |
| chemotherapy      | metastases  |                  |   | condition on CT |                                  |           |            |
|                   |             |                  |   | scan            |                                  |           |            |
| Patient D         | Breast with | Unwell patient,  | Palliative -  | Small reduction | Side effects lead to significant | Not known | No benefit |
| Chemotherapy      | liver       | PS2              | aiming to   | in metastases   | deterioration in QOL             |           |            |
|                   | metastases  |                  | extend life   | size            | Hospitalised for infection –     |           |            |
|                   |             |                  | expectancy  |                 | poorly tolerated                 |           |            |



# Melanoma patients

| Patient A Anti-PD-1 antibody monotherapy  | Tumour<br>type  Melanoma with liver metastases    | Patient characteristics  80 yo, hypertension, previous TIAs, 3 antihypertensives, otherwise mobile, | Treatment intent (SACT item)  Palliative – aiming to achieve remission        | Response<br>assessment  Stable<br>disease<br>after 3<br>months | No significant immune-related adverse events  | Outcome on completing treatment Dies of stroke after 5 months of treatment | Suggested<br>outcome (SACT<br>item)<br>No benefit |
|---|---|---|---|--|---|--|---|
| Patient B Combination immunotherapy with antiPD- 1+anti-CTLA-4 antibodies   | Melanoma<br>with low<br>volume lung<br>metastases | independent, PS 1 45 yo, BRAF wildtype, asymptomatic  | Palliative –<br>aiming to<br>achieve<br>remission                             | Almost complete response by 6 months, maintained over time     | Grade 3 colitis after 2 cycles, admitted for 3 weeks, needed infliximab x 2, developed grade 3 hepatitis while in hospital, chronic steroids, discharged, developed grade 2 chronic polyarthropathy | Alive, continues to need treatment for erosive polyarthropathy             | Benefit   |
| Patient Γ Combination immunotherapy with antiPD- 1+anti-CTLA-4 antibodies plus stereotactic radiotherapy to the brain | Melanoma<br>with brain<br>mets                    | 55yo, brain mets<br>progressed on BRAF<br>targeted therapy  | Palliative – aiming to extend life expectancy and/or delay tumour progression | Disease<br>progression   | Hospitalised with CVA after cycle 1, discharged for EOL care  | Death within 3 months of hospitalisation                                   | No benefit  |



# **Pancreatic cancer patients**

|  | Tumour<br>type                                   | Patient characteristics  | Treatment intent (SACT item)  | Response assessment  | Toxicity  | Outcome on completing treatment  | Suggested outcome (SACT item) |
|--|--|--|---|--|---|--|-------------------------------|
| Patient 1<br>Chemotherapy<br>(FOLFIRINOX)  | Pancreatic<br>cancer with<br>liver<br>metastases | 65 yo, mild<br>fatigue only, PS<br>1 at start of<br>treatment but<br>PS 2 at month 6 | Palliative – extend life expectancy, delay tumour progression                 | Month 2: minor response Month 4: stable disease Month 6: early signs of progression; treatment stopped by patient choice due to toxicities | Chemo-related<br>toxicities: fatigue,<br>altered bowel<br>habits and loss of<br>taste, weight loss.   | Patient does not<br>return to clinic and<br>dies 9 months from<br>starting<br>chemotherapy | Benefit                       |
| Patient 2<br>Chemotherapy<br>(Gemcitabine) | Pancreatic<br>cancer with<br>liver<br>metastases | 75 yo, mild<br>fatigue, back<br>pain, PS 2   | Palliative –delay<br>tumour<br>progression and<br>relieve/control<br>symptoms | Minor increase in liver mets on CT at 3 months, but overall stable disease   | Pain controlled, recurrent thrombocytopenia interrupting chemo delivery with each cycle. Multiple extra visits for rescheduled chemo plus admission for fever of unknown origin, leading to treatment stopping after 4 months | Death at 6 months  | No Benefit*                   |

<sup>\*</sup> Rationale: The clinician feels that the symptoms have been controlled, and this was one of the identified treatment intents. However, there is no strong evidence of delayed tumour progression, which was the other goal of treatment. Multiple hospital visits and admissions are considered to have a significant negative impact on the patient's quality of life.