



SACTv3.0 Outcomes Upload – Specification

Revised May 2020

The SACT outcomes upload allows regimen outcomes to be reported to the SACT dataset whenever they are recorded on trust systems. In the past, outcomes have only been received in the SACT dataset if they are completed and recorded in the same month as final treatment activity. Capturing outcomes is essential to allow treatment effectiveness and variation to be monitored on a national scale and ultimately improve clinical practice.

This specification describes the outcomes upload for SACT v3.0 (launch September 2019). It provides the technical details of the outcomes upload content and describes how data will be linked to existing SACT records, including any requirements for upload submission. **It must be read in conjunction with the “SACT v3.0 outcomes upload introduction” document.**

1. Is it now possible for SACT to receive a separate outcomes upload submission?

Yes. **Following the implementation of SACTv3.0** the SACT portal will be able to accept a separate outcomes upload submission.

The ‘Outcomes upload’ would need to conform to all format and rules contained within this document. The upload has been designed to ensure new outcomes information can be successfully appended to an existing record.

The following basic rules must be met to append outcome data:

1. SACT record must already exist
2. Data provided in outcomes upload must match existing SACT record “required for matching” fields
3. Appending the outcomes data must not compromise the existing SACT record (make record invalid)



2. What data items are included in the outcomes upload submission?

There are 18 data items included in the outcomes upload, which are a subset of the main SACT upload. The following dataset items are included in the separate outcomes submission:

Item No.	Data item name	Purpose
1	NHS number	Required for Patient Matching
44	Local patient identifier	Required for Patient Matching if item 1 not present
45	Person family name	Required for Patient Matching
46	Person given name	Required for Patient Matching
2	Date of birth	Required for Patient Matching
47	Person stated gender code	Required for Patient Matching
5	Patient postcode	Required for Patient Matching
9	Organisational code of provider	Required for Patient Matching
10	Primary diagnosis	Either required for Tumour Matching
11	Morphology ICD-O	
16	Regimen	Required for Treatment Matching
22	Start date of regimen	Required for Treatment Matching
38	Regimen modification - dose reduction	New Outcome
57	Regimen outcome summary - curative (completed as planned)	New Outcome
58	Regimen outcome summary - curative (not completed as planned) reason	New Outcome
59	Other - regimen outcome summary - curative (not completed as planned) reason	New Outcome
60	Regimen outcome summary - non curative	New Outcome
61	Regimen outcome summary – toxicity	New Outcome



3. What inclusion criteria should be used to generate the data for the outcomes upload?

The following inclusion criteria should be used to generate outcomes upload:

Date of recording of the “outcomes summary” data items

- The outcomes upload should be extracted by using a system audit date which records the date when any of the dataset outcomes were recorded on trust systems.
- This `system audit date` is not part of the SACT dataset as it is entirely an internal system date.
- This means that outcomes can be included on the basis of the where recorded, **regardless of the date when the outcome itself took place and regardless of when the first and last treatment activity took place.**
- This inclusion criteria means records should only be included in the extract when information has been recorded for at least one of the outcomes summary data items #57-61 as listed below:

Item No.	Data item name
57	Regimen outcome summary - curative (completed as planned)
58	Regimen outcome summary - curative (not completed as planned) reason
59	Other - regimen outcome summary - curative (not completed as planned) reason
60	Regimen outcome summary - non curative
61	Regimen outcome summary – toxicity

4. When should the data be uploaded?

Trusts can start submitting the outcomes upload once they are fully switched to SACT v3.0. and are successfully submitting their standard upload in the v3.0 format. By December 2020, all trusts should have started submitting outcomes upload.

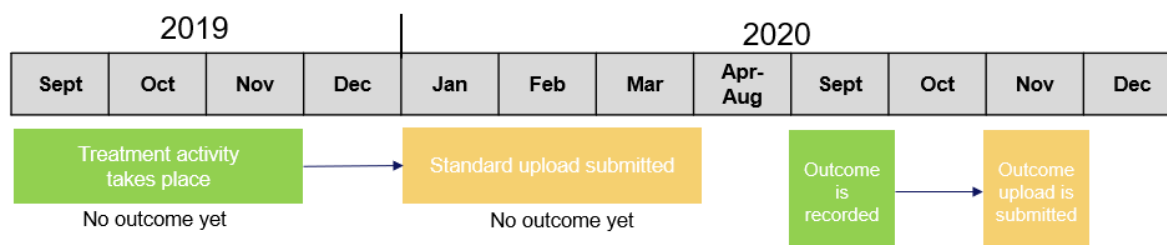
The outcomes upload follows the same upload schedule as the standard SACT upload:

- The data is submitted every month
- The data is based on a two months schedule, i.e. data recorded in September is submitted in November (please see illustration below)



- The data can be **uploaded** at the same time as the standard SACT upload, but is preferably **submitted** when the standard SACT upload has gone through successfully

Illustration of the upload schedule below for an outcome recorded in September 2020:



5. How will the upload work?

- A .csv file will be uploaded to the usual SACT portal.

This will be an independent and separate file from the normal SACT monthly upload.

- The file will need to contain the following data items in the correct format:

Note: The format should be consistent with normal SACT monthly upload.

Item No.	Data item name	Present
1	NHS number	Yes
44	Local patient identifier	Optional (required if item 1 is not present)
45	Person family name	Yes
46	Person given name	Yes
2	Date of birth	Yes
47	Person stated gender code	Yes
5	Patient postcode	Yes
9	Organisational code of provider	Yes
10	Primary diagnosis	Yes - Either or 11
11	Morphology ICD-O	Yes - Either or 10
16	Regimen	Yes
22	Start date of regimen	Yes
38	Regimen modification - dose reduction	Optional



57	Regimen outcome summary - curative (completed as planned)	Optional
58	Regimen outcome summary - curative (not completed as planned) reason	Optional
59	Other - regimen outcome summary - curative (not completed as planned) reason	Optional
60	Regimen outcome summary - non curative	Optional
61	Regimen outcome summary – toxicity	Optional

3. Standard file name convention for Outcomes Upload.

The file name of all outcomes uploads will need to use the following naming convention:

Outcomes_Upload followed by any local naming convention & dates

The key to distinguishing this file is the inclusion of 'Outcomes_Upload' at the start of file name.

Additionally to this, we recommend to mention "Outcomes" in the Notes Section when submitting the file on the portal so we can see at a glance which upload is being submitting.

4. File format

The database import process requires files to be in a consistent format as outlined below:

- extracted data files MUST be in a single Comma Separated Values (CSV) file only, with a .csv file extension
- a CSV file template is available from the SACT team for data suppliers and software system developers on [the SACT website](#)
- CSV files MUST be of the windows type rather than UNIX, with carriage returns at the end of each line as well as linefeeds
- none of the data required is case sensitive, excluding row headers
- CSV files MUST be saved with a text delimiter set to the double-quote character in order to allow the use of commas in data values
- all dates MUST be in a consistent date format in all the SACT data files submitted for example ccyy-mm-dd
- each file MUST have a consistent (standard) header row within all the files submitted by the Trust



6. How will the validation work?

1. Portal validation on upload

The file will need to pass the same validation rules as the standard SACT upload.

- i. All standard validation will be applied to the data fields in the outcome extract.
- ii. Any regimens not present in Trust mappings will fail validation.

2. Appending to existing regimen - Errors

The outcome record will not be updated if the following error occurs:

- i. No matching patient and or record (regimen) can be found. (see 4. below for further details)
- ii. A matching regimen can be found but updating would make the record invalid. (see 3. below for further details)

3. Basic business rules for outcomes fields

The below table shows the fields that will be updated for an existing record if / when the new data is received:

Item No.	Data item name	Update with latest value
1	NHS number	No
44	Local patient identifier	No
45	Person family name	No
46	Person given name	No
2	Date of birth	No
47	Person stated gender code	No
5	Patient postcode	No
9	Organisational code of provider	No
10	Primary diagnosis	No
11	Morphology ICD-0	No
16	Regimen	No
22	Start date of regimen	No
38	Regimen modification - dose reduction	Yes
57	Regimen outcome summary - curative (completed as planned)	Yes



58	Regimen outcome summary - curative (not completed as planned) reason	Yes
59	Other - regimen outcome summary - curative (not completed as planned) reason	Yes
60	Regimen outcome summary - non curative	Yes
61	Regimen outcome summary - toxicity	Yes

Note: An existing value will not be updated with a blank value

4. Rule for file order processing

Since the system requires a record to be existent for an outcome to be matched to existing data, the general rule is to submit the standard SACT upload first, prior to submitting the Outcomes upload.

This is likely to be due to the Outcomes upload being processed in the system **before** the standard SACT upload. To avoid this issue, the standard SACT upload must be **submitted and cleared first**.

- If you encounter this issue, please remove the record(s) which have caused the error as records cannot be edited at this system processing stage. Once these records have been removed the batch is then re-processed down the ENCORE waterfall.

7. How will the SACT mapping work for the Outcome upload?

Separate outcomes upload mappings will be applied to the Outcomes upload which are independent from the standard SACT upload. All mapping issues must be resolved before the outcomes upload can be submitted.

This includes a default header row and date format which used for all trusts and should be standard as set out in SACTv3.0 dataset user guide.

8. Will the new outcomes upload affect the standard SACT upload?

The only change to the standard SACT upload will be that the standard SACT upload file will need to have a set naming convention.

The standard file will need to be named as below to enable the system to differentiate between the two types of files:

SACT_v3 followed by any local naming convention & dates

File must start with 'SACT_v3'



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The contents of the standard SACT upload however will not change, and will continue to include the outcomes field for those that are recorded on the same month as the treatment activity.

Additional Information

If you have any further questions or would like to discuss the requirements of the SACT outcomes upload and how it is designed to complement your standard upload please contact the SACT Helpdesk (SACT@phe.gov.uk).