Manual for the Completion of CDISC Aligned NCI Standard Case Report Form (CRF) Modules

Introduction

In 2006, members of the National Cancer Institute's Center for Biomedical Informatics and Information Technology (NCI CBIIT) in conjunction with the cancer Data Standards Registry and Repository (caDSR) user community initiated a Case Report Form (CRF) harmonization activity. CRFs submitted from the community were reviewed and inventoried. The Harmonization group then reviewed all questions on the CRF and partitioned them into four categories:

- Mandatory A data collection variable that must be on the CRF (e.g., a regulatory requirement (if applicable)).
- Conditional A data collection variable that must be collected on the CRF for specific cases that may be dictated by local or sponsor defined business rules.
- Optional A data collection variable that is available for use if needed. There is no
 regulatory or business requirement for inclusion of this element on the CRF; if the design
 and scientific questions posed in the study dictate the need to collect this type of data;
 this is the element to include on the CRF.
- Non-harmonized A data collection variable that is, by consensus, to primarily belong to a different CRF module or is not belonging to any defined module.

A template form with modules that contain questions or variables representing data to be collected and a companion electronic CRF instruction manual was developed. These CRF modules were vetted and adopted by the caDSR stakeholder community as metadata standards.

Since the original CRFs and manuals were adopted, the Food & Drug Administration (FDA) published guidelines for submission of clinical trial study data using the Clinical Data Interchange Standards Consortium (CDISC) Study Data Tabulation Model (SDTM) for Investigational New Drug (IND) trials starting after December 2017. In response, NCI CBIIT has aligned the NCI Standard CRF modules with the CDISC data collection standard, Clinical Data Acquisition Standards Harmonization (CDASH) where data is expected to be submitted to FDA in SDTM format.

The instruction manual is a set of directions to guide data collection in each module template. Specific implementation instructions are not present; various groups may wish to implement the contents of a module in a variety of software applications.

The instructions include the field name, description or definition of each field, and any special formatting notes that apply to entries – such as the inclusion of full dates, use of values from a choice list only, etc. Finally, each question (or data item) is noted as Mandatory (m), Conditional (c), or Optional (o).

Staging AJCC Edition 8, Breast CDISC Aligned NCI Standard Template Module Definitions

Mapping to the CDASH:

N/A

Mapping to the SDTM:

This NCI Standard Template Form maps to the following domains in the SDTMIG v3.3 metadata table:

• RS – Disease Response and Clin Classification (v3.3)

Staging AJCC Edition 8, Breast CDISC Aligned NCI Standard Template Module Template Instructions

Field Name (Partition Status) CDE ID # Short Name	Definition CDISC Mapping and Instruction	Format
TNM Staging System Assessment Date (m) 7110971 QSTMNDT	The date the TNM staging was completed represented in an unambiguous date format (e.g., DD-MON-YYYY). CDASH: No Match; SDTM: No Match	DATE
Breast Cancer AJCC Edition 8 Clinical Tumor T Category (c) 7095155 AJBR201C	Extent of the primary breast carcinoma based on information obtained from the date of cancer diagnosis until the start of definitive treatment, or within four months (whichever is shorter), using AJCC Ed. 8 criteria.	CHARACTER. Use choice list.
	CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR201C, RSSTRESC (6642356) = value of AJBR201C, RSTESTCD (6620609) = "AJCC201", RSTEST (6620604) = "AJCC2- Primary Tumor (T)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER CLINICAL"; Conditionality Rule: Inclusion based on patient population being studied.	

Field Descriptions and Instructions

Field Name (Partition Status) CDE ID # Short Name	Definition CDISC Mapping and Instruction	Format
Breast Cancer AJCC Edition 8 Clinical Regional Lymph Node N Category (c) 7095180 AJBR202C	Extent of the regional lymph node involvement for breast carcinoma based on information obtained from the date of cancer diagnosis until the start of definitive treatment, or within four months (whichever is shorter), using AJCC Ed. 8 criteria.	CHARACTER. Use choice list.
	CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR202C, RSSTRESC (6642356) = value of AJBR202C, RSTESTCD (6620609) = "AJCC202", RSTEST (6620604) = "AJCC2- Regional Lymph Nodes (N)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER CLINICAL"; Conditionality Rule: Inclusion based on patient population being studied.	
Breast Cancer AJCC Edition 8 Clinical Distant Metastasis M Category (c) 7095121 AJBR203C	Extent of the distant metastasis for breast carcinoma based on information obtained from the date of cancer diagnosis until the start of definitive treatment, or within four months (whichever is shorter), using AJCC Ed. 8 criteria.	CHARACTER. Use choice list.
	CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR203C, RSSTRESC (6642356) = value of AJBR203C, RSTESTCD (6620609) = "AJCC203", RSTEST (6620604) = "AJCC2- Distant Metastasis (M)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER CLINICAL"; Conditionality Rule: Inclusion based on patient population being studied.	

Field Name (Partition Status) CDE ID # Short Name	Definition CDISC Mapping and Instruction	Format
Breast Cancer AJCC Edition 8 Clinical Prognostic Group Stage (c) 7093937 AJBR204C	Clinical stage group for breast carcinoma based on the combined evaluation of T, N, and M categories that should be used in countries where HER2, ER, and PR biomarker tests are routinely performed for patient care (US, Canada, etc.), using AJCC Ed. 8 criteria.	CHARACTER. Use choice list.
	CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR204C, RSSTRESC (6642356) = value of AJBR204C, RSTESTCD (6620609) = "AJCC204, RSTEST (6620604) = "AJCC2- Anatomic Stage", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER CLINICAL"; Conditionality Rule: Inclusion based on patient population being studied.	
Breast Cancer AJCC Edition 8 Pathologic Tumor T Category (c) 7093780 AJBR201P	Extent of the primary breast carcinoma based on clinical stage information combined with operative findings, and evidence obtained from pathology review when surgery is the first definitive therapy, using AJCC Ed. 8 criteria.	CHARACTER. Use choice list.
	CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR201P, RSSTRESC (6642356) = value of AJBR201P, RSTESTCD (6620609) = "AJCC201", RSTEST (6620604) = "AJCC2- Primary Tumor (T)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER PATHOLOGIC"; Conditionality Rule: Inclusion based on patient population being studied.	

Field Name (Partition Status) CDE ID # Short Name	Definition CDISC Mapping and Instruction	Format
Breast Cancer AJCC Edition 8 Pathologic Regional Lymph Node N Category (c) 7093765 AJBR202P	Extent of the regional lymph node involvement for breast carcinoma based on clinical stage information combined with operative findings, and evidence obtained from pathology review when surgery is the first definitive therapy, using AJCC Ed. 8 criteria.	CHARACTER. Use choice list.
	CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR202P, RSSTRESC (6642356) = value of AJBR202P, RSTESTCD (6620609) = "AJCC202", RSTEST (6620604) = "AJCC2- Regional Lymph Nodes (N)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER PATHOLOGIC"; Conditionality Rule: Inclusion based on patient population being studied.	
Breast Cancer AJCC Edition 8 Pathologic Distant Metastasis M Category (c) 7093927 AJBR203P	Extent of the distant metastasis for breast carcinoma based on clinical stage information combined with operative findings, and evidence obtained from pathology review when surgery is the first definitive therapy, using AJCC Ed. 8 criteria.	CHARACTER. Use choice list.
	CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR203P, RSSTRESC (6642356) = value of AJBR203P, RSTESTCD (6620609) = "AJCC203", RSTEST (6620604) = "AJCC2- Distant Metastasis (M)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER PATHOLOGIC"; Conditionality Rule: Inclusion based on patient population being studied.	

Field Name (Partition Status) CDE ID # Short Name	Definition CDISC Mapping and Instruction	Format
Breast Cancer AJCC Edition 8 Pathologic Prognostic Group Stage (c) 7092961 AJBR204P	Pathologic stage group for breast carcinoma based on the combined evaluation of T, N, and M categories that should be used in countries where HER2, ER, and PR biomarker tests are routinely performed for patient care (US, Canada, etc.), using AJCC Ed. 8 criteria. CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR204P, RSSTRESC (6642356) = value of AJBR204P, RSTESTCD (6620609) = "AJCC204", RSTEST (6620604) = "AJCC2- Anatomic Stage", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER PATHOLOGIC"; Conditionality Rule: Inclusion based on patient population being studied.	CHARACTER. Use choice list.
TNM Staging System Assessment Timepoint Type (o) 7110980 QSTMNTYP	The type of TNM staging completed based on their occurrence at a point in time. CDASH: No Match; SDTM: No Match	CHARACTER. Use choice list.

Annotated CRF: Staging AJCC Edition 8, Breast CDISC Aligned NCI Standard Template

This annotated CRF is ONLY used to show CDISC mapping without consideration of the CRF layout. CDASH mapping is in **Blue**, and SDTM mapping is in **Red**.

Form Name: Staging AJCC Edition 8, Breast CDISC Aligned NCI Standard Template

Mandatary Questions

CR	F Question	Value Domain
	te Current Staging Assessment mpleted (7110971)	DATE – Maximum Length = 11
CD	E Short Name: QSTMNDT	
	CDASH: No Match	
	SDTM: No Match	

Conditional Questions

CRF Question	Value Domain
Clinical T category (7095155)	CHARACTER – Maximum Length = 13
CDE Short Name: AJBR201C	
	□ T0 – Breast Cancer pT0 TNM Finding v8
CDASH: No Match	□ T1 – Breast Cancer pT1 TNM Finding v8
SDTM: RSORRES (6642369) = value	 T1a – Breast Cancer pT1a TNM Finding v8
of AJBR201C, RSSTRESC (6642356) = value of AJBR201C, RSTESTCD	T1b – Breast Cancer pT1b TNM Finding v8
(6620609) = "AJCC201", RSTEST (6620604) = "AJCC2-Primary Tumor	□ T1c – Breast Cancer pT1c TNM Finding v8
(T)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST	T1mi – Breast Cancer pT1mi TNM Finding v8
CANCER CLINICAL"	□ T2 – Breast Cancer pT2 TNM Finding v8
	□ T3 – Breast Cancer pT3 TNM Finding v8
	□ T4 – Breast Cancer pT4 TNM Finding v8
	 T4a – Breast Cancer pT4a TNM Finding v8
	T4b – Breast Cancer pT4b TNM Finding v8
	□ T4c – Breast Cancer pT4c TNM Finding v8
	T4d – Breast Cancer pT4d TNM Finding v8
	 Tis (DCIS) – Breast Cancer pTis (DCIS) TNM Finding v8
	 Tis (Paget) – Breast Cancer pTis (Paget) TNM Finding v8
	□ TX – Breast Cancer pTX TNM Finding v8

CRF Question	Value Domain
Clinical N category (7095180) CDE Short Name: AJBR202C	CHARACTER – Maximum Length = 5
CDASH: No Match SDTM: RSORRES (6642369) = value of AJBR202C, RSSTRESC (6642356) = value of AJBR202C, RSTESTCD (6620609) = "AJCC202", RSTEST (6620604) = "AJCC2-Regional Lymph Nodes (N)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER CLINICAL"	 cN0 – Breast Cancer cN0 TNM Finding v8 cN1 – Breast Cancer cN1 TNM Finding v8 cN1mi – Breast Cancer cN1mi TNM Finding v8 cN2 – Breast Cancer cN2 TNM Finding v8 cN2a – Breast Cancer cN2a TNM Finding v8 cN2b – Breast Cancer cN2b TNM Finding v8 cN3 – Breast Cancer cN3 TNM Finding v8 cN3a – Breast Cancer cN3a TNM Finding v8 cN3b – Breast Cancer cN3b TNM Finding
Clinical M category (7095121)	 v8 cN3c – Breast Cancer cN3c TNM Finding v8 cNX – Breast Cancer cNX TNM Finding v8 CHARACTER – Maximum Length = 7
CDE Short Name: AJBR203C	cM0 – Breast Cancer cM0 TNM Finding v8
CDASH: No Match	 cM0(i+) – Breast Cancer cM0(i+) TNM Finding v8
SDTM: RSORRES (6642369) = value of AJBR203C, RSSTRESC (6642356) = value of AJBR203C, RSTESTCD (6620609) = "AJCC203", RSTEST (6620604) = "AJCC2-Distant Metastasis (M)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER CLINICAL"	 cM1 – Breast Cancer cM1 TNM Finding v8 pM1 – Breast Cancer pM1 TNM Finding v8

CRF Question	Value Domain
Clinical disease stage (7093937) CDE Short Name: AJBR204C	CHARACTER – Maximum Length = 4
CDASH: No Match CDASH: No Match; SDTM: RSORRES (6642369) = value of AJBR204C, RSSTRESC (6642356) =	 0 – Prognostic Stage 0 Breast Cancer AJCC v8 IA – Prognostic Stage IA Breast Cancer AJCC v8 IB – Prognostic Stage IB Breast Cancer AJCC v8
value of AJBR204C, RSTESTCD (6620609) = "AJCC204, RSTEST (6620604) = "AJCC2-Anatomic Stage", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER CLINICAL";	 IIA – Prognostic Stage IIA Breast Cancer AJCC v8 IIB – Prognostic Stage IIB Breast Cancer AJCC v8 IIIA – Prognostic Stage IIIA Breast Cancer AJCC v8 IIIB – Prognostic Stage IIIB Breast Cancer AJCC v8 IIIC – Prognostic Stage IIIC Breast Cancer AJCC v8 IIIC – Prognostic Stage IIIC Breast Cancer AJCC v8 IV – Prognostic Stage IV Breast Cancer AJCC v8

CRF Question	Value Domain
Pathologic T category (7093780) CDE Short Name: AJBR201P	CHARACTER – Maximum Length = 13
CDASH: No Match SDTM: RSORRES (6642369) = value of AJBR201P, RSSTRESC (6642356) = value of AJBR201P, RSTESTO (6620609) = "AJCC201", RSTEST (6620604) = "AJCC2-Primary Tumor (T)", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER PATHOLOGIC"	 T0 – Breast Cancer pT0 TNM Finding v8 T1 – Breast Cancer pT1 TNM Finding v8 T1a – Breast Cancer pT1a TNM Finding v8 T1b – Breast Cancer pT1b TNM Finding v8 T1c – Breast Cancer pT1c TNM Finding v8 T1mi – Breast Cancer pT1mi TNM Finding v8 T2 – Breast Cancer pT2 TNM Finding v8 T3 – Breast Cancer pT3 TNM Finding v8 T4 – Breast Cancer pT4 TNM Finding v8 T4a – Breast Cancer pT4 TNM Finding v8 T4b – Breast Cancer pT4b TNM Finding v8 T4c – Breast Cancer pT4c TNM Finding v8 T4d – Breast Cancer pT4d TNM Finding v8 T4c – Breast Cancer pT4c TNM Finding v8 T4c – Breast Cancer pT4d TNM Finding v8 T4c – Breast Cancer pT4d TNM Finding v8 Tis (DCIS) – Breast Cancer pTis (DCIS) TNM Finding v8 Tis (Paget) – Breast Cancer pT3 (Paget) TNM Finding v8 TX – Breast Cancer pTX TNM Finding v8

CRF Question	Value Domain
Pathologic N category (7093765)	CHARACTER – Maximum Length = 9
CDE Short Name: AJBR202P	
	pN0 – Breast Cancer pN0 TNM Finding v8
CDASH: No Match	pN0(i+) – Breast Cancer pN0(i+) TNM Finding v8
SDTM: RSORRES (6642369) = value of AJBR202P, RSSTRESC (6642356)	pN0(mol+) – Breast Cancer pN0(mol+) TNM Finding v8
= value of AJBR202P, RSTESTCD (6620609) = "AJCC202", RSTEST	pN1 – Breast Cancer pN1 TNM Finding v8
(6620604) = "AJCC2-Regional Lymph Nodes (N)", RSCAT (6659633) =	pN1a – Breast Cancer pN1a TNM Finding v8
"AJCC V8", RSSCAT (No CDE) = "BREAST CANCER PATHOLOGIC"	pN1b – Breast Cancer pN1b TNM Finding v8
	pN1c – Breast Cancer pN1c TNM Finding v8
	pN1m – iBreast Cancer pN1mi TNM Finding v8
	pN2 – Breast Cancer pN2 TNM Finding v8
	pN2a – Breast Cancer pN2a TNM Finding v8
	pN2b – Breast Cancer pN2b TNM Finding v8
	pN3 – Breast Cancer pN3 TNM Finding v8
	pN3a – Breast Cancer pN3a TNM Finding v8
	pN3b – Breast Cancer pN3b TNM Finding v8
	pN3c – Breast Cancer pN3c TNM Finding v8
	pNX – Breast Cancer pNX TNM Finding v8
Pathologic M category (7093927) CDE Short Name: AJBR203P	CHARACTER – Maximum Length = 7
	□ cM0 – Breast Cancer cM0 TNM Finding v8
CDASH: No Match	cM0(i+) – Breast Cancer cM0(i+) TNM Finding v8
SDTM: RSORRES (6642369) = value	□ cM1 – Breast Cancer cM1 TNM Finding v8
of AJBR203P, RSSTRESC (6642356) = value of AJBR203P, RSTESTCD (6620609) = "AJCC203", RSTEST (6620604) = "AJCC2-Distant Metastasis (M)", RSCAT (6659633) =	pM1 – Breast Cancer pM1 TNM Finding v8
"AJCC V8", RSSCAT (No CDE) = "BREAST CANCER PATHOLOGIC"	

CRF Question	Value Domain
Pathologic disease stage (7092961) CDE Short Name: AJBR204P	CHARACTER – Maximum Length = 4
CDASH: No Match SDTM: RSORRES (6642369) = value of AJBR204P, RSSTRESC (6642356) = value of AJBR204P, RSTESTCD (6620609) = "AJCC204", RSTEST (6620604) = "AJCC2-Anatomic Stage", RSCAT (6659633) = "AJCC V8", RSSCAT (No CDE) = "BREAST CANCER PATHOLOGIC"	 O- Prognostic Stage 0 Breast Cancer AJCC v8 IA - Prognostic Stage IA Breast Cancer AJCC v8 IB - Prognostic Stage IB Breast Cancer AJCC v8 IIA - Prognostic Stage IIA Breast Cancer AJCC v8 IIB - Prognostic Stage IIB Breast Cancer AJCC v8 IIB - Prognostic Stage IIB Breast Cancer AJCC v8 IIIA - Prognostic Stage IIIB Breast Cancer AJCC v8 IIIA - Prognostic Stage IIIA Breast Cancer AJCC v8 IIIB - Prognostic Stage IIIB Breast Cancer AJCC v8 IIIB - Prognostic Stage IIIB Breast Cancer AJCC v8 IIIC - Prognostic Stage IIIC Breast Cancer AJCC v8 IV - Prognostic Stage IV Breast Cancer
	AJCC v8

Optional Questions

CRF Question	Value Domain
Staging Time Point (7110980)	CHARACTER – Maximum Length = 18
CDE Short Name: QSTMNTYP	
	Current Diagnosis – Current Diagnosis
CDASH: No Match	Initial Diagnosis – First Diagnosis
	Restaging – Restaging
SDTM: No Match	Study Enrollment – Clinical Study Enrollment