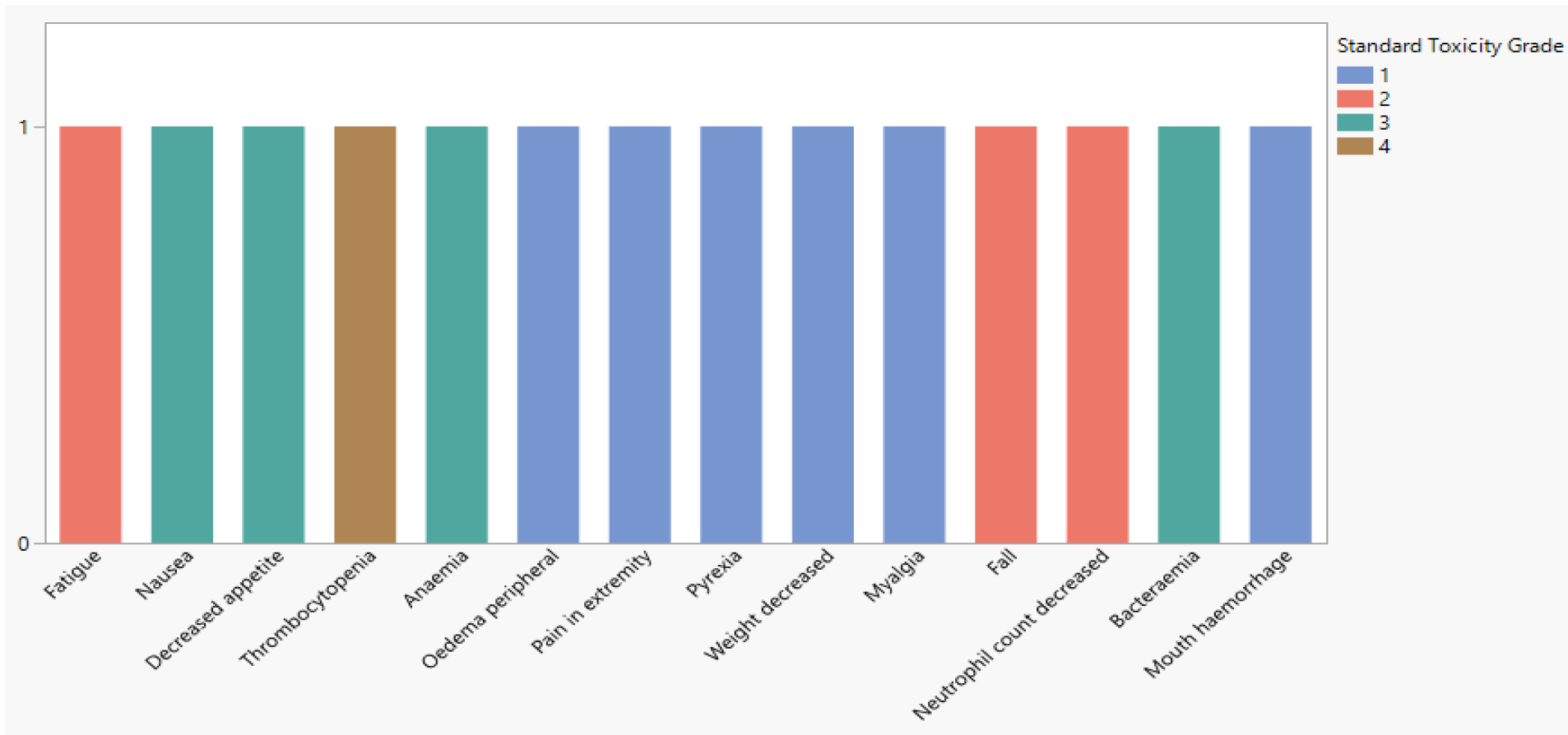


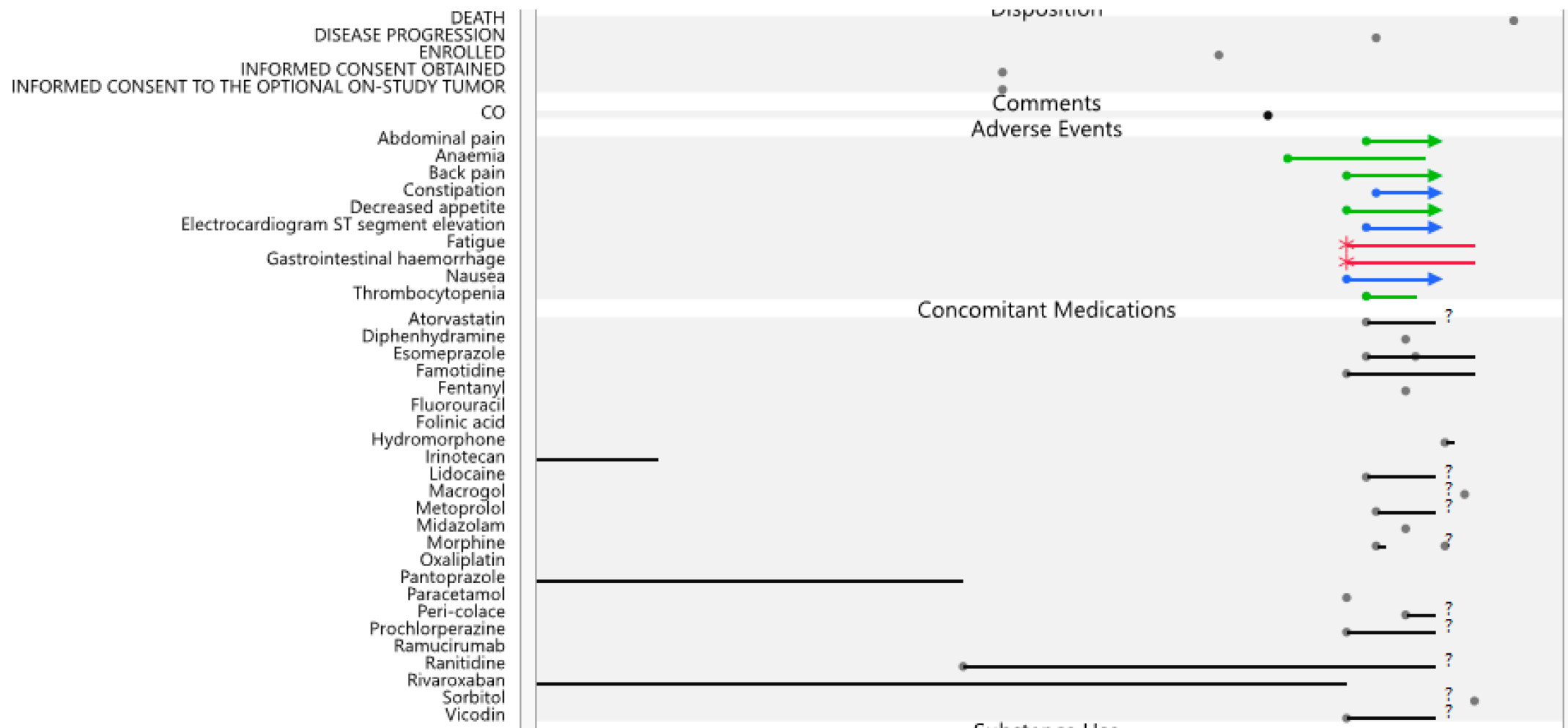
ONCOLOGY NARRATIVES

Oncology adverse event narratives are perhaps the most complicated narratives that a medical writer must deal with. The quantity and complexity of the study data associated with participants on these trials puts a high burden on the writer to be accurate, consistent and discerning as to which information to include for these individuals. Fortunately, software now allows the medical writer to choose from a variety of options as to which content to present as well as how the grammar for each adverse event is written within the paragraphs and tabulated data belonging to each participant. Once the medical writer has selected these options and modified a narrative template, software can generate the narratives for each participant in the trial in a matter of seconds.

THE COMPLEXITY OF AN ONCOLOGY PARTICIPANT



THE COMPLEXITY OF AN ONCOLOGY PARTICIPANT



REQUIREMENTS

ICHE3: Structure and Content of Clinical Study Reports

Clinical Data Interchange Standards Consortium (CDISC) implementation guidelines

SDTM: Submission Data Tabulation Model

ADAM: Analysis Data Model

Study Data Technical Conformance Guide from the Food and Drug Administration (FDA)

ICHE3 GUIDELINES

The nature and intensity of event
the clinical course leading up to event, with an indication of timing relevant to
test drug/investigational product administration
relevant laboratory measurements
whether the drug was stopped, and when
countermeasures
post-mortem findings
investigator's opinion on causality and sponsor's opinion on causality, if
appropriate

ICHE3 GUIDELINES

patient identifier

age and sex of patient; general clinical condition of patient, if appropriate
disease being treated (if this is the same for all patients, this information is not
required) with duration (of current episode) of illness

relevant concomitant/previous illnesses with details of occurrence/duration

relevant concomitant/previous medication with details of dosage

test drug administered, including dose, if this varied among patients, and length
of time administered

NARRATIVE SECTIONS OF THE CLINICAL STUDY REPORT

15.0 Participants with AEs table

15.1 TEAE with a fatal outcome

15.2 Serious TEAE

15.3 TEAE leading to study drug discontinuation

15.4 TEAE of special interest

2.5 The SDTM Standard Domain Models

The following standard domains, listed in alphabetical order by Domain Code, with their respective domain codes have been defined or referenced by the CDISC SDS Team in this document. Note that other domain models may be posted separately for comment after this publication.

Special-Purpose Domains (defined in *Section 5 – Models For Special-Purpose Domains*):

- Comments (CO)
- Demographics (DM) ←
- Subject Elements (SE)
- Subject Visits (SV)

Interventions General Observation Class (defined in *Section 6.1 - Interventions*):

- Concomitant Medications (CM) ←
- Exposure (EX) ←
- Procedures (PR) ←
- Exposure as Collected (EC)
- Substance Use (SU)

Events General Observation Class (defined in *Section 6.2 - Events*):

- Adverse Events (AE) ←
- Disposition (DS) ←
- Healthcare Encounters (HO) ←
- Clinical Events (CE)
- Protocol Deviations (DV)
- Medical History (MH) ←

Findings General Observation Class (defined in *Section 6.3 - Findings*):

- Drug Accountability (DA)
- ECG Test Results (EG) ←
- Immunogenicity Specimen Assessments (IS)
- Microbiology Specimen (MB)
- Morphology (MO)
- PK Concentrations (PC)
- Physical Examination (PE)
- Reproductive System Findings (RP)
- Subject Characteristics (SC)
- Tumor Identification (TU)
- Vital Signs (VS) ←
- Death Details (DD)
- Inclusion/Exclusion Criterion Not Met (IE)
- Laboratory Test Results (LB) ←
- Microscopic Findings (MI)
- Microbiology Susceptibility Test (MS)
- PK Parameters (PP)
- Questionnaires (QS)
- Disease Response (RS) ←
- Subject Status (SS)
- Tumor Results (TR) ←

Findings About (defined in *Section 6.4 - FA Domain*)

- Findings About (FA) ←
- Skin Response (SR)

Study Identifier	Domain Abbreviation	Unique Subject Identifier	Sequence Number	Lab Test or Examination ...	Lab Test or Examination Name	Result or Finding in Original Units	Original Units	Reference Range Lower Limit in ...
NICSAH1	LB	101001	1	ALP	Alkaline Phosphatase	57	U/L	40
NICSAH1	LB	101001	2	APTT	Activated Partial ...	22	sec	20
NICSAH1	LB	101001	38	APTT	Activated Partial ...	22	sec	20
NICSAH1	LB	101001	3	AST	Aspartate Aminotransferase	19	U/L	10
NICSAH1	LB	101001	4	BILI	Bilirubin	0.40000001	mg/dL	0.3
NICSAH1	LB	101001	5	BUN	Blood Urea Nitrogen	26	mg/dL	7

Study Identifier	Domain Abbreviation	Unique Subject Identifier	Subject Identifier for ...	Subject Reference Start Date/Time		Subject Reference End Date/Time		Study Site Identifier	Investigator Identifier	Investigator Name	Date/Time of Birth		mg/dL	7
NICSAH1	DM	101001	101001	1988-01-21T17:15:00		1988-02-02T17:11:00		10	1A	101A	1924-03-02	9998	mg/dL	7
NICSAH1	DM	101002	101002	1988-01-26T11:30:00		1988-02-05T12:00:00		10	1A	101A	1921-08-11		mg/dL	7
NICSAH1	DM	101003	101003	1988-01-26T15:10:00		1988-02-04T15:30:00		10	1A	101A	1956-08-03		U/L	15
NICSAH1	DM	101004	101004	1988-01-28T16:00:00		1988-01-28T16:33:00		10	1A	101A	1939-08-17		mEq/L	97
NICSAH1	DM	101005	101005	1988-04-05T14:45:00		1988-04-17T13:45:00		10	1A	101A	1920-11-14		mEq/L	97
NICSAH1	DM	101006	101006	1988-04-28T13:40:00		1988-05-08T14:00:00		10	1A	101A	1955-08-10		mEq/L	97
NICSAH1	DM	101007	101007	1988-06-25T11:05:00		1988-06-27T12:00:00		10	1A	101A	1925-05-29		mmol/L	23
NICSAH1	DM	101008	101008	1988-07-24T13:00:00		1988-08-07T13:00:00		10	1A	101A	1924-06-26		"	23
NICSAH1	DM	101009		Study Identifier	Domain Abbreviation	Unique Subject Identifier	Sequence Number	Reported Term for the Adverse Event		Dictionary-Derived Term	High Level Term	High Level Group Term	Body System or Organ Class	
NICSAH1	DM	101010	NICSAH1	AE		101001	1	Hydrocephalus		Hydrocephalus	Hydrocephalic ...	Increased intracranial ...	NERVOUS SYSTEM ...	
NICSAH1	DM	101011	NICSAH1	AE		101001	2	Pyrexia		Pyrexia	Febrile disorders	Body temperature ...	GENERAL DISORDERS AND ...	
NICSAH1	DM	101012	NICSAH1	AE		101001	3	Vasoconstriction		Vasoconstriction	Peripheral ...	Arteriosclerosis, ...	VASCULAR DISORDERS	
NICSAH1	DM	101013	NICSAH1	AE		101001	4	Vomiting		Vomiting	Nausea and ...	Gastrointestinal signs ...	GASTROINTESTINAL ...	
NICSAH1	DM	101014	NICSAH1	AE		101002	1	Alveolitis		Alveolitis	Lower ...	Lower respiratory tract ...	RESPIRATORY, THORACIC ...	
NICSAH1	DM	101015	NICSAH1	AE		101002	2	Hydrocephalus		Hydrocephalus	Hydrocephalic ...	Increased intracranial ...	NERVOUS SYSTEM ...	
NICSAH1	DM	101016	NICSAH1	AE		101002	3	Hyperglycaemia		Hyperglycaemia	Hyperglycaemic ...	Glucose metabolism ...	METABOLISM AND ...	
NICSAH1	DM	101017	NICSAH1	AE		101002	4	Pulmonary oedema		Pulmonary oedema	Left ventricular ...	Heart failures	RESPIRATORY, THORACIC ...	
NICSAH1	DM	11001	NICSAH1	AE		101002	5	Urinary tract infection		Urinary tract infection	Genitourinary ...	Genitourinary tract ...	INFECTIONS AND ...	
NICSAH1	DM	11002	NICSAH1	AE		101002	6	Vasoconstriction		Vasoconstriction	Peripheral ...	Arteriosclerosis, ...	VASCULAR DISORDERS	
NICSAH1	DM	11003	NICSAH1	AE		101002	7	Ventricular extrasystoles		Ventricular extrasystoles	Ventricular ...	Cardiac arrhythmias	CARDIAC DISORDERS	
NICSAH1	DM	11004	NICSAH1	AE		101004	1	Brain oedema		Brain oedema	Increased ...	Increased intracranial ...	NERVOUS SYSTEM ...	
			NICSAH1	AE		101004	2	Coma		Coma	Coma states	Neurological disorders ...	NERVOUS SYSTEM ...	
			NICSAH1	AE		101004	3	Hydrocephalus		Hydrocephalus	Hydrocephalic ...	Increased intracranial ...	NERVOUS SYSTEM ...	
			NICSAH1	AE		101004	4	Hyperglycaemia		Hyperglycaemia	Hyperglycaemic ...	Glucose metabolism ...	METABOLISM AND ...	
			NICSAH1	AE		101004	5	Hypotension		Hypotension	Vascular ...	Decreased and ...	VASCULAR DISORDERS	
			NICSAH1	AE		101004	6	Intracranial pressure increased		Intracranial pressure ...	Increased ...	Increased intracranial ...	NERVOUS SYSTEM ...	
			NICSAH1	AE		101004	7	Subarachnoid haemorrhage		Subarachnoid ...	Central nervous ...	Central nervous ...	NERVOUS SYSTEM ...	
			NICSAH1	AE		101004	8	Vasoconstriction		Vasoconstriction	Peripheral ...	Arteriosclerosis, ...	VASCULAR DISORDERS	
			NICSAH1	AE		101005	1	Alveolitis		Alveolitis	Lower ...	Lower respiratory tract ...	RESPIRATORY, THORACIC ...	
			NICSAH1	AE		101005	2	Anaemia		Anaemia	Anaemias NEC	Anaemias ...	BLOOD AND LYMPHATIC ...	
			NICSAH1	AE		101005	3	Heart rate increased		Heart rate increased	Heart rate and ...	Cardiac and vascular ...	INVESTIGATIONS	
			NICSAH1	AE		101005	4	Hydrocephalus		Hydrocephalus	Hydrocephalic ...	Increased intracranial ...	NERVOUS SYSTEM ...	
			NICSAH1	AE		101005	5	Hyperglycaemia		Hyperglycaemia	Hyperglycaemic ...	Glucose metabolism ...	METABOLISM AND ...	

SUMMARIES

15. PARTICIPANT NARRATIVES

Participant Number	Double-click to hide white space			
	Fatal TEAE	Other Serious TEAE	TEAE Leading to Study Drug Discontinuation	TEAE of Special Interest
101001			X	
101004		X	X	
101005		X	X	
101007		X	X	
101008			X	
101009			X	
101010		X	X	
101011			X	
101013		X		
101014	X	X	X	
101015	X			
101016	X			
101017	X			
11002		X	X	
11003		X		
11004		X		
11005	X	X		
11008		X	X	
11009		X		
11012		X		
11013		X		
11014		X		
11015	X	X	X	
11016			X	
11018		X		

NARRATIVE

15.1 TEAE with a fatal outcome

Participant Number	001
Arm	Treatment A
Diagnosis	Prostate cancer
Age	62 years
Sex	female
Race	white

Event Type	Preferred Term	Toxicity Grade	Relative Study Day
TEAE with a fatal outcome	septic shock	4	8
Serious TEAE	pleural effusion	3	8

Medical History	anaemia, hypertension, dyspnoea, anxiety, bronchitis chronic, and solid tumor
Baseline Disease Characteristics	Histopathology: None Current Stage: None MYC rearrangement status: None
Oncology Treatment History	Prior systemic therapy: None Number of prior regimens: None Prior radiotherapy: None Prior surgery: None
Prior Medications	None
Concomitant Medications	***uncoded medication****, alprazolam*, diphenhydramine, metoprolol tartrate*, prednisone

On Day 8 the participant experienced a septic shock (Grade 4) which was considered a serious adverse event (SAE). The event was considered serious for the following reasons: requires or prolongs hospitalization. At the time of the event, the participant had completed study medication. Trial medication had an action of drug interrupted as a result of the event. It is not known from the case report form if therapeutic measures were administered to treat the event. Adverse events that occurred within a +/- 3-day window of the onset of the SAE included alanine aminotransferase increased (Grade 1), anaemia (Grade 3), aspartate aminotransferase increased (Grade 1), haematuria (Grade 3), hepatic vein thrombosis (Grade 3), thrombocytopenia (Grade 1), thrombocytopenia (Grade 2), and thrombocytopenia (Grade 3). The investigator considered the AE to be not related to study medication. The event ended on (Day 25) with a final outcome of fatal.

NARRATIVE

15.2 Serious TEAE

Participant Number	40004
Treatment Group / Dose	TRTA / 5 mg
Diagnosis	Breast Cancer
Age	64 years
Sex	female
Race	hispanic

Event Type	Preferred Term	Toxicity Grade	Relative Study Day
Serious TEAE	vasoconstriction		58
Serious TEAE	hydrocephalus		58
Serious TEAE	intracranial pressure increased		58
Serious TEAE	hypotension		58
Serious TEAE	coma		30
Serious TEAE	subarachnoid haemorrhage		88

Medical History	headache associated with sah, and vomiting associated with sah
Baseline Disease Characteristics	Histopathology: None Current Stage: None MYC rearrangement status: None
Oncology Treatment History	Prior systemic therapy: None Number of prior regimens: None Prior radiotherapy: None Prior surgery: None
Prior Medications	None
Concomitant Medications	None

On Day 58 the participant experienced a vasoconstriction (severe) which was considered a serious adverse event (SAE). Though the event was considered serious, no reasons were provided on the case report form. The participant was on treatment when the event occurred. Trial medication had an action of drug withdrawn as a result of the event. It is not known from the case report form if therapeutic measures were administered to treat the event. Adverse events that occurred within a +/- 3-day window of the onset of the SAE included coma (severe), hydrocephalus (severe), hyperglycaemia (mild), hypotension (severe), and intracranial pressure increased (severe). The investigator considered the AE to be not related to study medication. The event ended on (Day 58) with a final outcome of recovered/resolved.

15.3 TEAE Leading to Study Drug Discontinuation

Participant Number	40050
Treatment Group / Dose	TRTA / 5 mg
Diagnosis	Prostate Cancer
Age	55 years
Sex	male
Race	white

Event Type	Preferred Term	Toxicity Grade	Relative Study Day
TEAE leading to Discontinuation	intestinal perforation		106

Medical History	focal deficit associated with sah, headache associated with sah, loss of consciousness associated with sah, other medical condition, vomiting associated with sah, and allergies
Baseline Disease Characteristics	Histopathology: None Current Stage: None MYC rearrangement status: None
Oncology Treatment History	Prior systemic therapy: None Number of prior regimens: None Prior radiotherapy: None Prior surgery: None
Prior Medications	None
Concomitant Medications	None

On Day 106 the participant experienced a intestinal perforation (moderate) which was an adverse event leading to study drug discontinuation. Though the event was considered serious, no reasons were provided on the case report form. At the time of the event, the participant had completed study medication. Trial medication had an action of not applicable as a result of the event. It is not known from the case report form if therapeutic measures were administered to treat the event. Adverse events that occurred within a +/- 3-day window of the onset of the SAE included vasoconstriction (moderate). The investigator considered the AE to be not related to study medication. The event ended on (Day 108) with a final outcome of recovered/resolved.

NARRATIVE

15.4 TEAE of Special Interest

Participant Number	40070
Treatment Group / Dose	TRTA / 5 mg
Diagnosis	Breast Cancer
Age	72 years
Sex	female
Race	hispanic

Event Type	Preferred Term	Toxicity Grade	Relative Study Day
TEAE of Special Interest	subarachnoid haemorrhage		177
TEAE of Special Interest	respiratory disorder		183

Medical History	headache associated with sah, and vomiting associated with sah
Baseline Disease Characteristics	Histopathology: None Current Stage: None MYC rearrangement status: None
Oncology Treatment History	Prior systemic therapy: None Number of prior regimens: None Prior radiotherapy: None Prior surgery: None
Prior Medications	None
Concomitant Medications	None

On Day 177 the participant experienced a subarachnoid haemorrhage (severe) which was considered a serious adverse event (SAE). Though the event was considered serious, no reasons were provided on the case report form. The participant was on treatment when the event occurred. Trial medication had an action of drug withdrawn as a result of the event. It is not known from the case report form if therapeutic measures were administered to treat the event. Adverse events that occurred within a +/- 3-day window of the onset of the SAE included cerebral infarction (severe), hypotension (moderate), intracranial pressure increased (severe), phlebitis (moderate), and pyrexia (moderate). The investigator considered the AE to be not related to study medication. The event ended on (Day 178) with a final outcome of not recovered/not resolved.

TABLES

Participant Number	001		
Arm	Treatment A		
Diagnosis	Prostate cancer		
Age	46 year old		
Sex	male		
Race	white		

Event Type	Preferred Term	Toxicity Grade	Relative Study Day
Serious TEAE	dyspnoea	3	53
Serious TEAE	pleural effusion	2	64
TEAE with a fatal outcome	dyspnoea	4	88
TEAE with a fatal outcome	hypoxia	4	88
TEAE with a fatal outcome	respiratory failure	4	88

Medical History	aortic stenosis, arthritis, solid tumor, and gastrooesophageal reflux disease		
Baseline Disease Characteristics	Histopathology: None Current Stage: None MYC rearrangement status: None		
Oncology Treatment History	Prior systemic therapy: None Number of prior regimens: None Prior radiotherapy: None Prior surgery: None		
Prior Medications	None		
Concomitant Medications	colecalfiferol*, guaifenesin*		

DEMOGRAPHICS

TABLE

Participant Number	\$SUBJID = 001
Arm	\$TRT01A = Treatment A
Diagnosis	\$MHTERM when \$MHCAT=“CANCER HISTORY” = prostate cancer
Age	\$AGE = 46
Sex	\$SEX = male
Race	\$RACE = caucasian

USUBJID	Unique Subject Identifier	Char		Identifier	Identifier used to uniquely identify a subject across all studies for all applications or submissions involving the product. This must be a unique number, and could be a compound identifier formed by concatenating STUDYID-SITEID-SUBJID.	Req
SUBJID	Subject Identifier for the Study	Char		Topic	Subject identifier, which must be unique within the study. Often the ID of the subject as recorded on a CRF.	Req

EVENTS TABLE

Event Type	Preferred Term	Toxicity Grade	Relative Study Day
TEAE leading to study drug discontinuation	\$AEDECOD = “dyspnea”	\$AETOXGR = “3”	\$AESTDY = 2
Serious TEAE	\$AEDECOD = “hypoxia”	\$AETOXGR = “3”	\$AESTDY = 4
AE of Special Interest	\$AEDECOD = “pleural effusion”	\$AETOXGR = “2”	\$AESTDY = 7
TEAE with a fatal outcome	\$AEDECOD = “cardiac arrest”	\$AETOXGR = “4”	\$AESTDY = 10
TEAE with a fatal outcome	\$AEDECOD = “respiratory failure”	\$AETOXGR = “4”	\$AESTDY = 10

AETOXGR	Standard Toxicity Grade	Char	*	Record Qualifier	Toxicity grade according to a standard toxicity scale such as Common Terminology Criteria for Adverse Events v3.0 (CTCAE). Sponsor should specify name of the scale and version used in the metadata (see Assumption 6d). If value is from a numeric scale, represent only the number (e.g., “2” and not “Grade 2”).	Perm
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MEDICAL HISTORY TABLES

Medical History	\$MHDECOD when \$MHCAT = “GENERAL MEDICAL HISTORY”
Baseline Disease Characteristics	Histopathology: \$FATEST, \$FASCAT, \$FAORRES Current Stage: \$FATEST, \$FASCAT, \$FAORRES MYC rearrangement status: \$FATEST, \$FASCAT, \$FAORRES
Oncology Treatment History	Prior systemic therapy: \$CMDECOD when \$CMCAT=“PRIOR THERAPY” Number of prior regimens: None Prior radiotherapy: \$CMDECOD when \$CMCAT=“PRIOR RADIOTHERAPY” Prior surgery: \$CMDECOD when \$CMCAT=“PRIOR SURGERY”
Prior Medications	\$CMDECOD when \$CMCAT = “PRIOR”
Concomitant Medications	\$CMDECOD when \$CMCAT = “CONCOMITANT MEDICATION”

PARAGRAPHS

Participant **\$SUBJID** first received **\$EXDOSE** when **\$EXSTDY = “1”** of **\$TRTXXA** on **\$EXSTDY**, as participant of the **\$TRTXXA**, and ended dosing with **\$EXDOSE** when **\$EXSTDY is the last day of treatment** of **\$TRT01A** on .

On **\$AESTDY** the participant experienced a **\$AEDECOD** (**\$AETOXGR**) which was considered a **\$AESER = “Y”** (SAE). The event was considered serious for the following reasons: requires or prolongs hospitalization. On the day of the event, the participant did not take any drug. The SAE occurred 20 days after the first dose of any study medication. Trial medication had an action of **\$AEACN** as a result of the event. Other action, unrelated to dose adjustments of study treatment, was not reported. Therapeutic measures administered to treat the event included **\$CMDECOD**. No other AEs were recorded within a +/- 3-day window around the onset of the event. The investigator considered the AE to be **\$AEREL** to study medication. The event ended on **\$AEENDY** with a final outcome of **\$AEOUT**.

REFERENCES

- <http://drug-dev.com/patient-safety-narratives-clinical-trials-medical-writing-patient-safety-narratives/>
- <https://www.cognibrain.com/narrative-writing-in-clinical-research-guidelines-for-medical-writer/>
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5384400/>