## **Terminology Criteria for Adverse Events**

# (TCAE)

### In Trials of Adult Pancreatic Islet Transplantation

Version 5.0 (03 August 2011)

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#### **Quick Reference**

The CIT Terminology Criteria for Adverse Events V5.0 is a descriptive terminology which can be utilized for Adverse Event (AE) reporting. A grading (severity) scale is provided for each AE term.

#### **Components and Organization**

#### CATEGORY

A CATEGORY is a broad classification of AEs based on anatomy and/or pathophysiology. Within each CATEGORY, AEs are listed accompanied by their descriptions of severity (Grade).

#### Adverse Event Terms

An AE is any unfavorable and unintended sign (including an abnormal laboratory finding), symptom, or disease temporally associated with the use of a medical treatment or procedure that may or may <u>not</u> be considered related to the medical treatment or procedure. An AE is a term that is a unique representation of a specific event used for medical documentation and scientific analyses. Each AE term is mapped to a MedDRA term and code. AEs are listed alphabetically within CATEGORIES.

#### Short AE Name

The 'SHORT NAME' column is new and it is used to simplify documentation of AE names on Case Report Forms.

#### Supra-ordinate Terms

A supra-ordinate term is located within a CATEGORY and is a grouping term based on disease process, signs, symptoms, or diagnosis. A supra-ordinate term is

#### Contents

ALLERGY/IMMUNOLOGY1	
AUDITORY/EAR	
BLOOD/BONE MARROW	
CARDIAC ARRHYTHMIA	
CARDIAC GENERAL	
COAGULATION	
CONSTITUTIONAL SYMPTOMS	
DEATH	
DERMATOLOGY	
ENDOCRINE	
GASTROINTESTINAL	
GROWTH AND DEVELOPMENT	

followed by the word 'Select' and is accompanied by specific AEs that are all related to the supra-ordinate term. Supra-ordinate terms provide clustering and consistent representation of Grade for related AEs. Supra-ordinate terms are not AEs, are not mapped to a MedDRA term and code, cannot be graded and cannot be used for reporting.

#### REMARK

A 'REMARK' is a clarification of an AE.

#### ALSO CONSIDER

An 'ALSO CONSIDER' indicates additional AEs that are to be graded if they are clinically significant.

#### NAVIGATION NOTE

A 'NAVIGATION NOTE' indicates the location of an AE term within the CTCAE document. It lists signs/symptoms alphabetically and the CTCAE term will appear in the same CATEGORY unless the 'NAVIGATION NOTE' states differently.

#### Grades

Grade refers to the severity of the AE. The CTCAE v5.0 displays Grades 1 through 5 with unique clinical descriptions of severity for each AE based on this general guideline: Grade 1 Mild AE Grade 2 Moderate AE Grade 3 Severe AE Grade 4 Life-threatening or disabling AE Grade 5 Death related to AE

HEMORRHAGE/BLEEDING	36
HEPATOBILIARY/PANCREAS	
INFECTION	40
LYMPHATICS	43
MALIGNANCY	45
METABOLIC/LABORATORY	46
MUSCULOSKELETAL/SOFT TISSUE	51
NEUROLOGY	57
OCULAR/VISUAL	62
PAIN	
PULMONARY/UPPER RESPIRATORY	65
RENAL/GENITOURINARY	72

A Semi-colon indicates 'or' within the description of the grade.

An 'Em dash'(—) indicates a grade not available. Not all Grades are appropriate for all AEs. Therefore, some AEs are listed with fewer than five options for Grade selection.

#### Grade 5

Grade 5 (Death) is not appropriate for some AEs and therefore is not an option.

The DEATH CATEGORY is new. Only one Supraordinate term is listed in this CATEGORY: 'Death not associated with TCAE term – Select' with 4 AE options: Death NOS; Disease progression NOS; Multi-organ failure; Sudden death.

#### Important:

- Grade 5 is the only appropriate Grade
- This AE is to be used in the situation where a death 1. cannot be reported using a TCAE v5.0 term associated with Grade 5, or
- 2. cannot be reported within a TCAE CATEGORY as 'Other (Specify)'

SEXUAL REPRODUCTIVE FUNCTION	73
SURGERY/INTRA-OPERATIVE INJURY	75
SYNDROMES	
VASCULAR	
VASCULAR	<u> 78</u>

Modified from the: Cancer Therapy Evaluation Program, Common Terminology Criteria for Adverse Events, Version 3.0, DCTD, NCI, NIH, DHHS March 31, 2003 (<u>http://ctep.cancer.gov</u>), Publish Date: December 12, 2003

		ALLERGY	/IMMUNOLOG	Y				
			Grade					
Adverse Event	Short Name	1	2	3	4	5		
Allergic reaction/ hypersensitivity (including drug fever)	Allergic reaction	Transient flushing or rash; drug fever <38°C (<100.4°F)	Rash; flushing; urticaria; dyspnea; drug fever ≥ 38°C (≥ 100.4°F)	Symptomatic bronchospasm, with or without urticaria; parenteral medication(s) indicated; allergy- related edema/ angioedema; hypotension	Anaphylaxis	Death		
	anifestations of allergic o e release syndrome/acute		is graded as Allergic rea	action/hypersensitivity (inc	luding drug fever).			
Allergic rhinitis (including sneezing, nasal stuffiness, postnasal drip)	Rhinitis	Mild, intervention not indicated	Moderate, intervention indicated	_	_	-		
REMARK: Rhinitis associa CATEGORY.	ated with obstruction or s	stenosis is graded as Ob	struction/stenosis of airv	way – <i>Select</i> in the PULI	MONARY/UPPER RE	SPIRATORY		
Autoimmune reaction	Autoimmune reaction	Asymptomatic and serologic or other evidence of autoimmune reaction, with normal organ function and intervention not indicated	Evidence of autoimmune reaction involving a nonessential organ or function (e.g., hypothyroidism)	Reversible autoimmune reaction involving function of a major organ or other adverse event (e.g., transient colitis or anemia)	Autoimmune reaction with life-threatening consequences	Death		
ALSO CONSIDER: Colitis; H	। Hemoglobin; Hemolysis (e	e.g., immune hemolytic ar	ا nemia, drug-related hemo	lysis); Thyroid function, Ic	vw (hypothyroidism).	ļ		

		ALLE	RGY/IMMUNC	DLOGY			
				Grade			
Adverse Event	Short Name	1	2	3	4	5	
Serum sickness	Serum sickness	_	_	Present	Life-threatening	Death	
NAVIGATION NOTE: Urticaria as an isolated symptom is graded as Urticaria (hives, welts, wheals) in the DERMATOLOGY/SKIN CATEGORY							
Vasculitis	Vasculitis	Mild, intervention not indicated	Symptomatic, non- steroidal medical intervention indicated	Steroids indicated	Ischemic changes; amputation indicated	Death	
Graft versus host disease	GVHD	_	_	Present	Life-threatening	Death	
REMARK: In patients with	islet infusions combi	ined with bone marrow	infusions				
Sensitization	Sensitization	_	PRA > 20%	_	_	_	
REMARK: Post allogeneic	transplant						
Allergy/Immunology – Other (Specify,)	Allergy – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death	

		AUDI	TORY/EAR			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Earach	ne (otalgia) is graded as F	Pain – <i>Select</i> in the PAIN	CATEGORY.			
Hearing: patients with/without baseline audiogram and enrolled in a monitoring program <sup>1</sup>	Hearing (monitoring program)	Threshold shift or loss of 15 – 25 dB relative to baseline, averaged at 2 or more contiguous test frequencies in at least one ear; or subjective change in the absence of a Grade 1 threshold shift	Threshold shift or loss of >25 – 90 dB, averaged at 2 contiguous test frequencies in at least one ear	Adult only: Threshold shift of >25 – 90 dB, averaged at 3 contiguous test frequencies in at least one ear Pediatric: Hearing loss sufficient to indicate therapeutic intervention, including hearing aids (e.g., >20 dB bilateral HL in the speech frequencies; >30 dB unilateral HL; and requiring additional speech-language related services)	Adult only: Profound bilateral hearing loss (>90 dB) Pediatric: Audiologic indication for cochlear implant and requiring additional speech- language related services	
REMARK: Pediatric recom pre-exposure/pretreatme			s specified. For children a	nd adolescents (<18 year	rs of age) without a bas	seline test,
Hearing: patients without baseline audiogram and not enrolled in a monitoring program <sup>1</sup>	Hearing (without monitoring program)	_	Hearing loss not requiring hearing aid or intervention (i.e., not interfering with ADL)	Hearing loss requiring hearing aid or intervention (i.e., interfering with ADL)	Profound bilateral hearing loss (>90 dB)	_
REMARK: Pediatric recom pre-exposure/pretreatme			s specified. For children a	nd adolescents (<18 year	rs of age) without a bas	seline test,

		AUDI	TORY/EAR							
Grade										
Adverse Event	Short Name	1	2	3	4	5				
Otitis, external ear (non-infectious)	Otitis, external	External otitis with erythema or dry desquamation	External otitis with moist desquamation, edema, enhanced cerumen or discharge; tympanic Membrane perforation; tympanostomy	External otitis with mastoiditis; stenosis or osteomyelitis	Necrosis of soft tissue or bone	Death				
ALSO CONSIDER: Hearing enrolled in a monitoring	: patients with/without bas program <sup>1</sup> .	seline audiogram and enro	olled in a monitoring prog	ram <sup>1</sup> ; Hearing: patients w	ithout baseline audiogra	am and not				
Otitis, middle ear (non-infectious)	Otitis, middle	Serous otitis	Serous otitis, medical intervention indicated	Otitis with discharge; mastoiditis	Necrosis of the canal soft tissue or bone	Death				
Tinnitus	Tinnitus	_	Tinnitus not interfering with ADL	Tinnitus interfering with ADL	Disabling	_				
ALSO CONSIDER: Hearing enrolled in a monitoring	: patients with/without bas program <sup>1</sup>	seline audiogram and enro	olled in a monitoring prog	ram <sup>1</sup> ; Hearing: patients w	ithout baseline audiogra	am and not				
Auditory/Ear – Other (Specify,)	Auditory/Ear – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death				

<sup>&</sup>lt;sup>1</sup>Drug-induced ototoxicity should be distinguished from age-related threshold decrements or unrelated cochlear insult. When considering whether an adverse event has occurred, it is first necessary to classify the patient into one of two groups. (1) The patient is under standard treatment/enrolled in a clinical trial <2.5 years, and has a 15 dB or greater threshold shift averaged across two contiguous frequencies; or (2) The patient is under standard treatment/enrolled in a clinical trial >2.5 years, and the difference between the expected age related and the observed threshold shifts is 15 dB or greater averaged across two contiguous frequencies. Consult standard references for appropriate age- and gender-specific hearing norms, e.g., Morrell, et al. Age- and gender-specific reference ranges for hearing level and longitudinal changes in hearing level. Journal of the Acoustical Society of America 100:1949-1967, 1996; or Shotland, et al. Recommendations for cancer prevention trials using potentially ototoxic test agents. Journal of Clinical Oncology 19:1658-1663, 2001.

American National Standards Institute. The recommended ANSI S3.44 database is Annex B.

In the absence of a baseline prior to initial treatment, subsequent audiograms should be referenced to an appropriate database of normals. ANSI. (1996) American National Standard: Determination of occupational noise exposure and estimation of noise-induced hearing impairment, ANSI S 3.44-1996. (Standard S 3.44). New York:

		BLOOD	BONE MARRO	N					
Adverse Event Short Name 1 2 3 4									
Adverse Event	Short Name	1	2	3	4	5			
Bone marrow cellularity	Bone marrow cellularity	Mildly hypocellular or ≤ 25% reduction from normal cellularity for age	Moderately hypocellular or > $25 - \le 50\%$ reduction from normal cellularity for age	Severely hypocellular or > 50 – ≤ 75% reduction in cellularity from normal for age		Death			
CD4 count (Other than during administration of depleting anti- lymphocyte agents such as rabbit antithymocyte globulin and alemtuzumab)	CD4 count	<lln 0.5="" 10<sup="" x="" –="">9 /L</lln>	<0.5 – 0.05 x 10 <sup>9</sup> /L	<0.05 x 10 <sup>9</sup> /L		Death			
Haptoglobin	Haptoglobin	<lln< td=""><td>_</td><td>Absent</td><td>-</td><td>Death</td></lln<>	_	Absent	-	Death			
Hemoglobin	Hemoglobin	<lln 10.0="" dl<br="" g="" –=""><lln 6.2="" l<br="" mmol="" –=""><lln 100="" g="" l<="" td="" –=""><td>&lt;10.0 – 8.0 g/dL &lt;6.2 – 4.9 mmol/L &lt;100 – 80g/L</td><td>&lt;8.0 – 6.5 g/dL &lt;4.9 – 4.0 mmol/L &lt;80 – 65 g/L</td><td>&lt;6.5 g/dL &lt;4.0 mmol/L &lt;65 g/L</td><td>Death</td></lln></lln></lln>	<10.0 – 8.0 g/dL <6.2 – 4.9 mmol/L <100 – 80g/L	<8.0 – 6.5 g/dL <4.9 – 4.0 mmol/L <80 – 65 g/L	<6.5 g/dL <4.0 mmol/L <65 g/L	Death			
Decreases in hemog any other time, repor		hin 2 weeks post intra-portal	islet infusion, therefore, rep	oort only grades 2, 3, 4,	and 5 within the first two w	eeks; at			
Hemolysis (e.g., immune hemolytic anemia, drug related hemolysis)	Hemolysis	Laboratory evidence of hemolysis only (e.g., direct antiglobulin test [DAT, Coombs'] schistocytes)	Evidence of red cell destruction and ≥ 2 g decrease in hemoglobin, no transfusion	Transfusion or medical intervention (e.g., steroids) indicated	Catastrophic consequences of hemolysis (e.g., renal failure, hypotension, bronchospasm, emergency splenectomy)	Death			
ALSO CONSIDER: Hap	toglobin; Hemoglobin.								
Iron overload	Iron overload	_	Asymptomatic iron overload, intervention not indicated	Iron overload, intervention indicated	Organ impairment (e.g., endocrinopathy, cardiopathy)	Death			

		BLOOD	BONE MARF	ROW			
			Grade				
Adverse Event	Short Name	1	2	3	4	5	
Lymphopenia (Other than during administration of depleting anti-lymphocyte agents such as rabbit antithymocyte globulin and alemtuzumab)	Lymphopenia	_	_	<0.1 x 10 <sup>9</sup> /L	_	Death	
Myelodysplasia	Myelodysplasia	_	-	Abnormal marrow cytogenetics (marrow blasts ≤ 5%)	RAEB or RAEB-T (marrow blasts >5%)	Death	
Neutrophils/granulocytes (ANC/AGC)	Neutrophils	-	-	<1.0 – 0.5 x 10 <sup>9</sup> /L	<0.5 x 10 <sup>9</sup> /L	Death	
Platelets	Platelets	_	_	<50.0 – 25.0 x 10 <sup>9</sup> /L	<25.0 x 10 <sup>9</sup> /L	Death	
Blood/Bone Marrow – Other (Specify,)	Blood – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death	

	C	CARDIAC A	RRHYTHMIA					
		Grade						
Adverse Event	Short Name	1	2	3	4	5		
Conduction abnormality/ atrioventricular heart block       Conduction abnorm         - Select:       -         - Asystole       -         - AV Block-First degree       -         - AV Block-Second degree Mobitz Type I (Wenckel         - AV Block-Second degree Mobitz Type II         - AV Block-Second degree Mobitz Type II         - AV Block-Third degree (Complete AV block)         - Conduction abnormality NOS         - Sick Sinus Syndrome         - Stokes-Adams Syndrome         - Wolff-Parkinson-White Syndrome		Asymptomatic, intervention not indicated	Non-urgent medical intervention indicated	Symptomatic and incompletely controlled medically, or controlled with device (e.g., pacemaker)	Life-threatening (e.g., arrhythmia associated with CHF, hypotension, syncope, shock)	Death		
Palpitations	Palpitations	Present	Present with associated symptoms (e.g., lightheadedness, shortness of breath)		_			
REMARK: Grade palpitations or	nly in the absence of a docume	nted arrhythmia.	'	' 		'		
Prolonged QTc interval	Prolonged QTc	QTc >0.45 – 0.47 second	QTc >0.47 – 0.50 second; ≥ 0.06 second above baseline	QTc >0.50 second	QTc >0.50 second; life- threatening signs or symptoms (e.g., arrhythmia, CHF, hypotension, shock, syncope); Torsade de pointes	Death		

		CARDIAC	ARRHYTH					
Grade								
Adverse Event	Short Name	1	2	3	4	5		
Supraventricular and nodal arrhythmia – <i>Select:</i> – Atrial fibrillation	Supraventricular arrhythmia – <i>Select</i>	Asymptomatic, intervention not indicated	Non-urgent medical intervention indicated	Symptomatic and incompletely controlled medically, or controlled with device (e.g., pacemaker)	Life-threatening (e.g., arrhythmia associated with CHF, hypotension, syncope, shock)	Death		
<ul> <li>Nodal/Junctional</li> <li>Sinus arrhythmia</li> <li>Sinus bradycardia</li> <li>Sinus tachycardia</li> <li>Supraventricular arrhy</li> <li>Supraventricular extra</li> <li>Supraventricular tachy</li> </ul>	asystoles (Premature Atria	Il Contractions; Prema						
	Vasovagal episode	_	Present without loss of consciousness	Present with loss of consciousness	Life-threatening consequences	Death		
		Asymptomatic, no intervention indicated	Non-urgent medical intervention indicated	Symptomatic and incompletely controlled medically or controlled with device (e.g., defibrillator)	Life-threatening (e.g., arrhythmia associated with CHF, hypotension, syncope, shock)	Death		
Cardiac Arrhythmia – Other (Specify,)	Cardiac Arrhythmia – Other (Specify,)	Mild	Moderate	Severe	Life-threatening; disabling	Death		

		CARD		L		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Angina is	graded as Cardiac isc	hemia/infarction in the	CARDIAC GENERAL	CATEGORY.		
Cardiac ischemia/infarction	Cardiac ischemia/infarction	Asymptomatic arterial narrowing without ischemia	Asymptomatic and testing suggesting ischemia; stable angina	Symptomatic and testing consistent with ischemia; unstable angina; intervention indicated	Acute myocardial infarction	Death
Cardiac troponin I (cTnI)	cTnl	_	_	Levels consistent with unstable angina as defined by the manufacturer	Levels consistent with myocardial infarction as defined by the manufacturer	Death
Cardiac troponin T (cTnT)	cTnT	0.03 – <0.05 ng/mL	0.05 – <0.1 ng/mL	0.1 – <0.2 ng/mL	0.2 ng/mL	Death
Cardiopulmonary arrest, cause unknown (non-fatal)	Cardiopulmonary arrest	_	_	_	Life-threatening	_
REMARK: Grade 4 (non-fatal) 1. A TCAE term associated 2. A TCAE 'Other (Specify, Death not associated with T	with Grade 5. )' within any CATE	GORY.		reporting Death:	'	
NAVIGATION NOTE: Chest pa	ain (non-cardiac and no	on-pleuritic) is graded a	is Pain – <i>Select</i> in the F	AIN CATEGORY.		
NAVIGATION NOTE: CNS iscl	hemia is graded as CN	S cerebrovascular isch	emia in the NEUROL			

		CAR	DIAC GENERAI	L		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Hypertension	Hypertension	Asymptomatic, transient (<24 hrs) increase by >20 mmHg (diastolic) or to >150/100 if previously WNL; intervention not indicated Pediatric: Asymptomatic, transient (<24 hrs) BP increase >ULN; intervention not indicated	Recurrent or persistent (≥ 24 hrs) or symptomatic increase by >20 mmHg (diastolic) or to >150/100 if previously WNL; monotherapy may be indicated Pediatric: Recurrent or persistent (≥ 24 hrs) BP >ULN; monotherapy may be indicated	Requiring more than one drug or more intensive therapy than previously Pediatric: Same as adult	Life-threatening consequences (e.g., hypertensive crisis) Pediatric: Same as adult	Death
REMARK: Use age and g	gender-appropriate normal	values >95 <sup>th</sup> percenti	le ULN for pediatric patie	ents.		
Hypotension     Hypotension     Changes, intervention not indicated       ALSO CONSIDER: Syncope (fainting).		intervention not	Brief (<24 hrs) fluid replacement or other therapy; no physiologic consequences	Sustained (≥ 24 hrs) therapy, resolves without persisting physiologic consequences	Shock (e.g., acidemia; impairment of vital organ function)	Death
Left ventricular diastolic dysfunction	c Left ventricular diastolic dysfunction	Asymptomatic diagnostic finding; intervention not indicated	Asymptomatic, intervention indicated	Symptomatic CHF responsive to intervention	Refractory CHF, poorly controlled; intervention such as ventricular assist device or heart transplant indicated	Death

		CAR	DIAC GENER	AL		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Left ventricular systolic dysfunction	Left ventricular systolic dysfunction	Asymptomatic, resting ejection fraction (EF) <60 – 50%; shortening fraction (SF) <30 – 24%	Asymptomatic, resting EF <50 – 40%; SF <24 – 15%	Symptomatic CHF responsive to intervention; EF <40 – 20% SF <15%	Refractory CHF or poorly controlled; EF <20%; intervention such as ventricular assist device, ventricular reduction surgery, or heart transplant indicated	Death
NAVIGATION NOTE: Myoca	ardial infarction is graded	as Cardiac ischemia	/infarction in the CARDI	AC GENERAL CATEGOR	Y.	
Myocarditis	Myocarditis		_	CHF responsive to intervention	Severe or refractory CHF	Death
Pericardial effusion (non-malignant)	Pericardial effusion	Asymptomatic effusion	-	Effusion with physiologic consequences	Life-threatening consequences (e.g., tamponade); emergency intervention indicated	Death
Pericarditis	Pericarditis	Asymptomatic, ECG or physical exam (rub) changes consistent with pericarditis	Symptomatic pericarditis (e.g., chest pain)	Pericarditis with physiologic consequences (e.g., pericardial constriction)	Life-threatening consequences; emergency intervention indicated	Death
NAVIGATION NOTE: Pleuri	tic pain is graded as Pair	- Select in the PAIN	CATEGORY.	I		
Pulmonary hypertension	Pulmonary hypertension	Asymptomatic without therapy	Asymptomatic, therapy indicated	Symptomatic hypertension, responsive to therapy	Symptomatic hypertension, poorly controlled	Death
Restrictive cardiomyopathy	Restrictive cardiomyopathy	Asymptomatic, therapy not indicated	Asymptomatic, therapy indicated	Symptomatic CHF responsive to intervention	Refractory CHF, poorly controlled; intervention such as ventricular assist device, or heart transplant indicated	Death

	CARDIAC GENERAL									
				Grade						
Adverse Event	Short Name	1	2	3	4	5				
Right ventricular dysfunction (cor pulmonale)	Right ventricular dysfunction	Asymptomatic without therapy	Asymptomatic, therapy indicated	Symptomatic cor pulmonale, responsive to intervention	Symptomatic cor pulmonale poorly controlled; intervention such as ventricular assist device, or heart transplant indicated	Death				
Valvular heart disease	Valvular heart disease	Asymptomatic valvular thickening with or without mild valvular regurgitation or stenosis; treatment other than endocarditis prophylaxis not indicated	Asymptomatic; moderate regurgitation or stenosis by imaging	Symptomatic; severe regurgitation or stenosis; symptoms controlled with medical therapy	Life-threatening; disabling; intervention (e.g., valve replacement, valvuloplasty) indicated	Death				
Cardiac General – Other (Specify,)	Cardiac General – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death				

		CO	AGULATION			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
DIC (disseminated intravascular coagulation)	DIC	_	Laboratory findings with no bleeding	Laboratory findings and bleeding	Laboratory findings, life- threatening or disabling consequences (e.g., CNS hemorrhage, organ damage,	Death
REMARK: DIC (disseminated in ALSO CONSIDER: Platelets.	travascular coagulat	ion) must have inc	creased fibrin split prod	ucts or D-dimer.	or hemodynamically significant blood loss)	
Fibrinogen	Fibrinogen	<1.0 – 0.75 x LLN or <25% decrease from baseline	<0.75 – 0.5 x LLN or 25 – <50% decrease from baseline	<0.5 – 0.25 x LLN or 50 – <75% decrease from baseline	<0.25 x LLN or 75% decrease from baseline or absolute value <50 mg/dL	Death
REMARK: Use % decrease only	when baseline is <l< td=""><td>LN (local laborate</td><td>ory value).</td><td></td><td></td><td></td></l<>	LN (local laborate	ory value).			
INR (International Normalized Ratio of prothrombin time)	INR	>1 – 1.5 x ULN	>1.5 – 2 x ULN	>2 x ULN	_	_
ALSO CONSIDER: Hemorrhage,	CNS; Hemorrhage, (	GI – <i>Select;</i> Hemo	orrhage, GU – <i>Select;</i> H	emorrhage, pulmonary/u	ipper respiratory – <i>Select.</i>	I
PTT (Partial Thromboplastin Time)	PTT	>1 – 1.5 x ULN	>1.5 – 2 x ULN	>2 x ULN	_	_
ALSO CONSIDER: Hemorrhage, REMARK: During therapeutic he	-		-		ipper respiratory – <i>Select.</i>	
Thrombotic microangiopathy (e.g., thrombotic thrombocytopenic purpura [TTP] or hemolytic uremic syndrome [HUS])	Thrombotic microangiopathy	Evidence of RB0 destruction (schistocytosis) without clinical consequences	c	Laboratory findings present with clinical consequences (e.g., renal insufficiency, petechiae)	Laboratory findings and life-threatening or disabling consequences, (e.g., CNS hemorrhage/bleeding or thrombosis/embolism or renal failure)	Death
REMARK: Must have microangi ALSO CONSIDER: Creatinine; He	· •		, schistocytes, helmet c	ells, red cell fragments).	1	1
Coagulation – Other (Specify,)	Coagulation – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		CONSTITUTIO	NAL SYMPTON	IS		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Fatigue (asthenia, lethargy, malaise)	Fatigue	Mild fatigue over baseline	Moderate or causing difficulty performing some ADL	Severe fatigue interfering with ADL	Disabling	_
Fever (in the absence of neutropenia, where neutropenia is defined as ANC <1.0 x 10 <sup>9</sup> /L)	Fever	38.0 – 39.0°C (100.4 – 102.2°F)	>39.0 – 40.0°C (102.3 – 104.0°F)	>40.0°C (>104.0°F) for >24 hrs	>40.0°C (>104.0°F) for >24 hrs	Death
REMARK: The temperature mea ALSO CONSIDER: Allergic reaction		• •				
NAVIGATION NOTE: Hot flashes	are graded as Hot	flashes/flushes in the EN	DOCRINE CATEGORY.			I
Hypothermia	Hypothermia	_	35 – >32°C 95 – >89.6°F	32 – >28°C 89.6 – >82.4° F	≥ 28 °C 82.4°F or life- threatening consequences (e.g., coma, hypotension, pulmonary edema, acidemia, ventricular fibrillation)	Death
Insomnia	Insomnia	Occasional difficulty sleeping, not interfering with function	Difficulty sleeping, interfering with function but not interfering with ADL	Frequent difficulty sleeping, interfering with ADL	Disabling	_
REMARK: If pain or other symp	toms interfere with	sleep, do NOT grade as i	insomnia. Grade primary	event(s) causing insomnia	a.	
Rigors/chills	Rigors/chills	Mild	Moderate, narcotics indicated	Severe or prolonged, not responsive to narcotics	_	_

	CONSTITUTIONAL SYMPTOMS								
			Grade						
Adverse Event	Short Name	1	2	3	4	5			
Sweating (diaphoresis)	Sweating	Mild and occasional	Frequent or drenching	-	-	-			
ALSO CONSIDER: Hot flashe	es/flushes								
Weight gain	Weight gain	5 - < 10% of baseline	10 - < 20% of baseline	≥ 20% of baseline	-	-			
REMARK: Edema, dependii Also Consider: Ascites (r				S CATEGORIES.					
Weight loss	Weight loss	5 to <10% from baseline; intervention not indicated	10 – < 20% from baseline; nutritional support indicated	≥ 20% from baseline; tube feeding or TPN indicated	-	-			
Constitutional Symptoms – Other (Specify, <u>)</u> )	Constitutional Symptoms – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death			

	DEATH								
				Grade					
Adverse Event	Short Name	1	1 2 3 4 5						
Death not associated with TCAE term – <i>Select:</i>	Death not associated with TCAE term – <i>Select</i>		_	_		Death			
<ul> <li>Death NOS</li> <li>Disease progression</li> <li>Multi-organ failure</li> <li>Sudden death</li> </ul>	– Disease progression NOS – Multi-organ failure								
1. Cannot be attrib	<ul> <li>Sudden death</li> <li>REMARK: Grade 5 is the only appropriate grade. 'Death not associated with TCAE term – <i>Select'</i> is to be used where a death:</li> <li>Cannot be attributed to a TCAE term associated with Grade 5.</li> <li>Cannot be reported within any CATEGORY using a TCAE 'Other (Specify,)'.</li> </ul>								

		DERMA	TOLOGY/SKIN			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Atrophy, skin	Atrophy, skin	Detectable	Marked	—	—	_
Atrophy, subcutaneous fat	Atrophy, subcutaneous fat	Detectable	Marked	_	_	_
ALSO CONSIDER: Indurat	tion/fibrosis (skin and sub	cutaneous tissue).				
Bruising (in absence of Grade 3 or 4 thrombocytopenia)	Bruising	Localized or in a dependent area	Generalized	_	_	_
Burn	Burn	Minimal symptoms; intervention not indicated	Medical intervention; minimal debridement indicated	Moderate to major debridement or reconstruction indicated	Life-threatening consequences	Death
REMARK: BUIN REFERS TO	all burns including radiati	on, chemical, etc.				
Cheilitis	Cheilitis	Asymptomatic	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL	—	_
Dry skin	Dry skin	Asymptomatic	Symptomatic, not interfering with ADL	Interfering with ADL	_	_
Flushing	Flushing	Asymptomatic	Symptomatic	_	—	_
Hair loss/alopecia (scalp or body)	Alopecia	Thinning or patchy	Complete	_	_	_
Hyperpigmentation	Hyperpigmentation	Slight or localized	Marked or generalized	—	—	_
Hypopigmentation	Hypopigmentation	Slight or localized	Marked or generalized	—	—	

		DERMA	FOLOGY/SKIN			
	ade					
Adverse Event	Short Name	1	2	3	4	5
Induration/fibrosis (skin and subcutaneous tissue) ALSO CONSIDER: Fibrosis	Induration s-cosmesis; Fibrosis-deep	Increased density on palpation	Moderate impairment of function not interfering with ADL; marked increase in density and firmness on palpation with or without minimal retraction	Dysfunction interfering with ADL; very marked density, retraction or fixation	_	_
Injection site reaction/ extravasation changes	Injection site reaction	Pain; itching; erythema	Pain or swelling, with inflammation or phlebitis	Ulceration or necrosis that is severe; operative intervention indicated	_	_
ALSO CONSIDER: Allergic	reaction/hypersensitivity	(including drug fever); U	lceration.			
Nail changes	Nail changes	Discoloration; ridging (koilonychias); pitting	Partial or complete loss of nail(s); pain in nailbed(s)	Interfering with ADL	_	—
NAVIGATION NOTE: Petec	hiae is graded as Petech	iae/purpura (hemorrhage	e/bleeding into skin or mucosa)	in the HEMORRHAGE/BI	LEEDING CATEGO	RY.
Photosensitivity	Photosensitivity	Painless erythema	Painful erythema	Erythema with desquamation	Life-threatening; disabling	Death
Pruritus/itching ALSO CONSIDER: Rash/d	Pruritus	Mild or localized	Intense or widespread	Intense or widespread and interfering with ADL	_	_
ALSO CONSIDER. Rash/u	esquamation					
Rash/desquamation	Rash	Macular or papular eruption or erythema without associated symptoms	Macular or papular eruption or erythema with pruritus or other associated symptoms; localized desquamation or other lesions covering <50%	Severe, generalized erythroderma or macular, papular or vesicular eruption; desguamation	Generalized exfoliative, ulcerative, or bullous dermatitis	Death
REMARK: Rash/desquar	nation may be used for G	/HD.	of body surface area (BSA)	covering <u>&gt;</u> 50% BSA		

		DE	RMATOLOGY/SI	KIN		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Rash: acne/acneiform	Acne	Intervention not indicated	Intervention indicated	Associated with pain, disfigurement, ulceration, or desquamation	_	Death
Rash: dermatitis associated with radiation – <i>Select:</i> – Chemoradiation – Radiation	Dermatitis – <i>Select</i>	Faint erythema or dry desquamation	Moderate to brisk erythema; patchy moist desquamation, mostly confined to skin folds and creases; moderate edema	Moist desquamation other than skin folds and creases; bleeding induced by minor trauma or abrasion	Skin necrosis or ulceration of full thickness dermis; spontaneous bleeding from involved site	Death
Rash: erythema multiforme (e.g., Stevens-Johnson syndrome, toxic epidermal necrolysis)	Erythema multiforme	_	Scattered, but not generalized eruption	Severe (e.g., generalized rash or painful stomatitis); IV fluids, tube feedings, or TPN indicated	Life-threatening; disabling	Death
Rash: hand-foot skin reaction	Hand-foot	Minimal skin changes or dermatitis (e.g., erythema) without pain	Skin changes (e.g., peeling, blisters, bleeding, edema) or pain, not interfering with function	Ulcerative dermatitis or skin changes with pain interfering with function	_	_
Skin breakdown/ decubitus ulcer	Decubitus	_	Local wound care; medical intervention indicated	Operative debridement or other invasive intervention indicated (e.g., hyperbaric oxygen)	Life-threatening consequences; major invasive intervention indicated (e.g., tissue reconstruction, flap, or grafting)	Death
REMARK: Skin breakdov intervention.	wn/decubitus ulcer is	to be used for loss of	skin integrity or decubitus ul	cer from pressure or as the re	sult of operative or medica	
Striae	Striae	Mild	Cosmetically significant	_	_	_

		DER	MATOLOGY/SKII	N		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Telangiectasia	Telangiectasia	Few	Moderate number	Many and confluent	—	_
Ulceration	Ulceration	_	Superficial ulceration <2 cm size; local wound care; medical intervention indicated	Ulceration ≥ 2 cm size; operative debridement, primary closure or other invasive intervention indicated (e.g., hyperbaric oxygen)	Life-threatening consequences; major invasive intervention indicated (e.g., complete resection, tissue reconstruction, flap, or grafting)	Death
Urticaria (hives, welts, wheals) ALSO CONSIDER: Aller	Urticaria gic reaction/hypersens	Intervention not indicated itivity (including drug f	Intervention indicated for <24 hrs	Intervention indicated for ≥ 24 hrs	—	_
Wound complication, non-infectious	Wound complication, non-infectious	Incisional separation of ≤ 25% of wound, no deeper than superficial fascia	Incisional separation >25% of wound with local care; asymptomatic hernia	Symptomatic hernia without evidence of strangulation; fascial disruption/dehiscence without evisceration; primary wound closure or revision by operative intervention indicated; hospitalization or hyperbaric oxygen indicated	Symptomatic hernia with evidence of strangulation; fascial disruption with evisceration; major reconstruction flap, grafting, resection, or amputation indicated	Death
Remark: Wound com	plication, non-infectiou	s is to be used for sep	paration of incision, hernia, d	ehiscence, evisceration, or	second surgery for wound re	vision.
Dermatology/Skin – Other (Specify,)	Dermatology – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		ENI	DOCRINE			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Adrenal insufficiency	Adrenal insufficiency	Asymptomatic, intervention not indicated	Symptomatic, intervention indicated	Hospitalization	Life-threatening; disabling	Death
REMARK: Adrenal insufficiency mucous membranes, pigment laboratory studies (low cortiso	ation of skin, salt cra	aving, syncope (fainting),	vitiligo, vomiting, weaki			
ALSO CONSIDER: Potassium, se	erum-high (hyperkal	emia); Thyroid function, lo	ow (hypothyroidism).			
Cushingoid appearance (e.g., moon face, buffalo hump, centripetal obesity, cutaneous striae)	Cushingoid	_	Present	_	_	_
ALSO CONSIDER: Glucose, seru	um-high (hyperglyce	mia); Potassium, serum-lo	ow (hypokalemia).			
Feminization of male	Feminization of male	_	_	Present	_	-
NAVIGATION NOTE: Gynecomas	stia is graded in the	SEXUAL/REPRODUCTIV	E FUNCTION CATEG	ORY.		
Hot flashes/flushes	Hot flashes	Mild	Moderate	Interfering with ADL	_	_
Hypoglycemic event	Hypoglycemia	_	_	Hypoglycemic symptoms requiring assistance of another person to treat	Life-threatening, seizure or coma	Death
Ketoacidosis (Patients who already have a diagnosis of type 1 diabetes mellitus)	Ketoacidosis	_	Symptomatic, not interfering with ADL; intervention indicated but able to self treat	Symptomatic, interfering with ADL, hospitalization indicated	Life-threatening consequences (e.g., coma)	Death
Masculinization of female	Masculinization of female	_	_	Present	_	_

			ENDOCRINE			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Neuroendocrine: ACTH deficiency	ACTH	Asymptomatic	Symptomatic, not interfering with ADL; intervention indicated	Symptoms interfering with ADL; hospitalization indicated	Life-threatening consequences (e.g., severe hypotension)	Death
Neuroendocrine: ADH secretion abnormality (e.g., SIADH or low ADH)	ADH	Asymptomatic	Symptomatic, not interfering with ADL; intervention indicated	Symptoms interfering with ADL	Life-threatening consequences	Death
Neuroendocrine: gonadotropin secretion abnormality	Gonadotropin	Asymptomatic	Symptomatic, not interfering with ADL; intervention indicated	Symptoms interfering with ADL; osteopenia; fracture; infertility	_	-
Pancreatic endocrine: glucose intolerance	Diabetes	_	_	Symptoms interfering with ADL; insulin indicated	Life-threatening consequences (e.g., ketoacidosis, hyperosmolar non-ketotic coma)	Death
Parathyroid function, low (hypoparathyroidism)	Hypoparathyroidism	Asymptomatic, intervention not indicated	Symptomatic; intervention indicated	_	_	_
Thyroid function, high (hyperthyroidism, thyrotoxicosis)	Hyperthyroidism	Asymptomatic, intervention not indicated	Symptomatic, not interfering with ADL; thyroid suppression therapy indicated	Symptoms interfering with ADL; hospitalization indicated	Life-threatening consequences (e.g., thyroid storm)	Death
Thyroid function, low (hypothyroidism)	Hypothyroidism	Asymptomatic, intervention not indicated	Symptomatic, not interfering with ADL; thyroid replacement indicated	Symptoms interfering with ADL; hospitalization indicated	Life-threatening myxedema coma	Death
Endocrine – Other (Specify,)	Endocrine – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

Grade								
Adverse Event	Short Name	1	2	3	4	5		
NAVIGATION NOTE: Abdor	ninal pain or cramping i	is graded as Pain – <i>Select</i> i	n the PAIN CATEGORY.					
Anorexia	Anorexia	Loss of appetite without alteration in eating habits	Oral intake altered without significant weight loss or malnutrition; oral nutritional supplements indicated	Associated with significant weight loss or malnutrition (e.g., inadequate oral caloric and/or fluid intake); IV fluids, tube feedings or TPN indicated	Life-threatening consequences	Death		
ALSO CONSIDER: Weight	loss.							
Ascites (non-malignant)	Ascites	Asymptomatic	Symptomatic, medical intervention indicated	Symptomatic, invasive procedure indicated	Life-threatening consequences	Death		
REMARK: Ascites (non-m	alignant) refers to docu	nented non-malignant asci	tes or unknown etiology, t	ı out unlikely malignant, an	ı d includes chylous asci	tes.		
Colitis – Specify etiology e.g. infectious, inflammatory, immunological, drug- related, etc.	Colitis	Asymptomatic, pathologic or radiographic findings only	Abdominal pain; mucus or blood in stool	Abdominal pain, fever, change in bowel habits with ileus; peritoneal signs	Life-threatening consequences (e.g., perforation, bleeding, ischemia, necrosis, toxic megacolon)	Death		
ALSO CONSIDER: Hemorr	hage, GI – <i>Select</i> .			•	1			
Constipation	Constipation	_	-	Symptoms interfering with ADL; obstipation with manual evacuation indicated	Life-threatening consequences (e.g., obstruction, toxic megacolon)	Death		

		GASTR	OINTESTINAL						
		Grade							
Adverse Event	Short Name	1	2	3	4	5			
Dehydration	Dehydration	Increased oral fluids indicated; dry mucous membranes; diminished skin turgor	IV fluids indicated <24 hrs	IV fluids indicated >24 hrs	Life-threatening consequences (e.g., hemodynamic collapse)	Death			
ALSO CONSIDER: Diarrhea	a; Hypotension; Vomiting.								
Dental: dentures or prosthesis	Dentures	Minimal discomfort, no restriction in activities	Discomfort preventing use in some activities (e.g., eating), but not others (e.g. speaking)	Unable to use dentures or prosthesis at any time	_	_			
Dental: periodontal disease	Periodontal	Gingival recession or gingivitis; limited bleeding on probing; mild local bone loss	Moderate gingival recession or gingivitis; multiple sites of bleeding on probing; moderate bone loss	Spontaneous bleeding; severe bone loss with or without tooth loss; osteonecrosis of maxilla or mandible	_	_			
REMARK: Severe periodo	ntal disease leading to os	steonecrosis is graded as	Osteonecrosis (avascula	r necrosis) in the MUSCU	LOSKELETAL CATEG	ORY.			
Dental: teeth	Teeth	Surface stains; dental caries; restorable, without extractions	Less than full mouth extractions; tooth fracture or crown amputation or repair indicated	Full mouth extractions	_	_			

		GA	STROINTESTINA	L				
Grade								
Adverse Event	Short Name	1	2	3	4	5		
Diarrhea	Diarrhea		Increase of 4 – 6 stools per day over baseline; IV fluids indicated < 24hrs; moderate increase in ostomy output compared to baseline; not interfering with ADL	Increase of ≥ 7 stools per day over baseline; incontinence; IV fluids >24 hrs; hospitalization; severe increase in ostomy output compared to baseline; interfering with ADL	Life- threatening consequences (e.g., hemodynamic collapse)	Death		
REMARK: Diarrhea inclu ALSO CONSIDER: Dehyd		bowel or colonic origin	n, and/or ostomy diarrhea.					
Distension/bloating, abdominal	Distension	_	_	Symptomatic, interfering with GI function	_	_		
ALSO CONSIDER: Ascite	es (non-malignant); lle	us, GI (functional obstr	uction of bowel, i.e., neurocon	nstipation); Obstruction, GI – Selec	t.			
Dry mouth/salivary gland (xerostomia)	Dry mouth	Symptomatic (dry or thick saliva) without significant dietary alteration; unstimulated saliva flow >0.2 ml/min	Symptomatic and significant oral intake alteration (e.g., copious water, other lubricants, diet limited to purees and/or soft, moist foods); unstimulated saliva 0.1 to 0.2 ml/min	Symptoms leading to inability to adequately aliment orally; IV fluids, tube feedings, or TPN indicated; unstimulated saliva <0.1 ml/min	_	_		
	it a patient's participat	ion on study. If salivary		tive and objective assessment para for initial assessment, subsequen				

		GASTR	OINTESTINAL			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Dysphagia (difficulty swallowing)	Dysphagia	Symptomatic, able to eat regular diet	Symptomatic and altered eating/ swallowing (e.g., altered dietary habits, oral supplements); IV fluids indicated <24 hrs	Symptomatic and severely altered eating/swallowing (e.g., inadequate oral caloric or fluid intake); IV fluids, tube feedings, or TPN indicated >24 hrs	Life-threatening consequences (e.g., obstruction, perforation)	Death
REMARK: Dysphagia (difficulty s dilation is graded as Stricture/si ALSO CONSIDER: Dehydration; E	tenosis (including a			l, esophageal, or neurolo	gic origin. Dysphagia re	quiring
Enteritis (inflammation of the small bowel) – Specify etiology e.g. infectious, inflammatory, immunological, drug-related, etc.	Enteritis	Asymptomatic, pathologic or radiographic findings only	Abdominal pain; mucus or blood in stool	Abdominal pain, fever, change in bowel habits with ileus; peritoneal signs	Life-threatening consequences (e.g., perforation, bleeding, ischemia, necrosis)	Death
ALSO CONSIDER: Hemorrhage, C	GI – <i>Select</i> ; Typhliti	is (cecal inflammation).				
Esophagitis – Specify etiology e.g. infectious, inflammatory, immunological, drug-related, etc.	Esophagitis	Asymptomatic pathologic, radiographic, or endoscopic findings only	Symptomatic; altered eating/swallowing (e.g., altered dietary habits, oral supplements); IV fluids indicated <24 hrs	Symptomatic and severely altered eating/swallowing (e.g., inadequate oral caloric or fluid intake); IV fluids, tube feedings, or TPN indicated >24 hrs	Life-threatening consequences	Death
REMARK: Esophagitis includes r ALSO CONSIDER: Dysphagia (diff						

		GASTR	OINTESTINAL			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Fistula, GI – <i>Select</i> : – Abdomen NOS – Anus – Biliary tree – Colon/cecum/appendix – Duodenum – Esophagus – Gallbladder – Ileum – Jejunum – Oral cavity – Pancreas – Pharynx – Rectum – Salivary gland – Small bowel NOS – Stomach REMARK: A fistula is defined a be the site from which the ab irradiated esophageal cance	onormal process is be	lieved to have originated.				
Flatulence	Flatulence	-	Moderate	—	_	_
Gastritis (including bile reflux gastritis)	Gastritis	Asymptomatic radiographic or endoscopic findings only	Symptomatic; altered gastric function (e.g., inadequate oral caloric or fluid intake); IV fluids indicated <24 hrs	Symptomatic and severely altered gastric function (e.g., inadequate oral caloric or fluid intake); IV fluids, tube feedings, or TPN indicated >24 hrs	Life-threatening consequences; operative intervention requiring complete organ resection (e.g., gastrectomy)	Death
ALSO CONSIDER: Hemorrhage	e, GI – <i>Select</i> ; Ulcer,	l GI – <i>Select.</i>	1	I	1	I
NAVIGATION NOTE: Head and	neck soft tissue necr	osis is graded as Soft tiss	ue necrosis - Select in th	e MUSCULOSKELETAL	SOFT TISSUE CATEO	ORY

				Grade		
Adverse Event	Short Name	1	2	3	4	5
Heartburn/dyspepsia	Heartburn	-	Moderate	Severe	_	_
Hemorrhoids	Hemorrhoids	_	Symptomatic; banding or medical intervention indicated	Interfering with ADL; interventional radiology, endoscopic, or operative intervention indicated	Life-threatening consequences	Death
leus, GI (functional obstruction of bowel, i.e., neuroconstipation)	lleus	Asymptomatic, radiographic findings only	Symptomatic; altered GI function (e.g., altered dietary habits); IV fluids indicated <24 hrs	Symptomatic and severely altered GI function; IV fluids, tube feeding, or TPN indicated >24 hrs	Life-threatening consequences	Death
REMARK: Ileus, GI is to be ALSO CONSIDER: Constipat Incontinence, anal			g., delayed gastric or colonio ig. Daily use of pads required	c emptying). Interfering with ADL; operative intervention	Permanent bowel diversion	Death
REMARK: Incontinence, an	al is to be used for loss		sequelae of operative or the	indicated	indicated	
Leak (including anastomotic), GI – Select: – Biliary tree – Esophagus – Large bowel – Leak NOS – Pancreas – Pharynx – Rectum – Small bowel – Stoma – Stoma	Leak, GI – <i>Select</i>	Asymptomatic radiographic findings only	Symptomatic; medical intervention indicated	Symptomatic and interfering with GI function; invasive or endoscopic intervention indicated	Life-threatening consequences	Death

				Grade		
Adverse Event	Short Name	1	2	3	4	5
Malabsorption	Malabsorption	_	Altered diet; oral therapies indicated (e.g., enzymes, medications, dietary supplements)	Inability to aliment adequately via GI tract (i.e., TPN indicated)	Life-threatening consequences	Death
Mucositis/stomatitis (clinical exam) – Select: – Anus – Esophagus – Large bowel – Larynx – Oral cavity – Pharynx – Rectum – Small bowel – Stomach – Trachea	Mucositis (clinical exam) – <i>Select</i>	Erythema of the mucosa or ulcer(s) < 5mm diameter. Minimal symptoms, normal diet; minimal respiratory symptoms but not interfering with function.	Patchy ulcerations or ulcers > 5mm diameter or pseudomembranes. Painful and interfering with diet.	Confluent ulcerations or ulcers >10mm diameter or pseudomembranes; bleeding with minor trauma. Painful and requiring surgical intervention or unable to eat or drink	Tissue necrosis; significant spontaneous bleeding; life-threatening consequences	Death
Mucositis/stomatitis (functional/symptomatic) - <i>Select:</i> - Anus - Esophagus - Large bowel - Larynx - Oral cavity - Pharynx - Rectum - Small bowel - Stomach - Trachea	Mucositis (functional/ symptomatic) – <i>Select</i>	Upper aerodigestive tract sites: Minimal symptoms, normal diet; minimal respiratory symptoms but not interfering with function Lower GI sites: Minimal discomfort, intervention not indicated	Upper aerodigestive tract sites: Symptomatic but can eat and swallow modified diet; respiratory symptoms interfering with function but not interfering with ADL Lower GI sites: Symptomatic, medical intervention indicated but not interfering with ADL	Upper aerodigestive tract sites: Symptomatic and unable to adequately aliment or hydrate orally; respiratory symptoms interfering with ADL Lower GI sites: Stool incontinence or other symptoms interfering with ADL	Symptoms associated with life-threatening consequences	Death

		GAS	TROINTESTINAL	-					
	Grade								
Adverse Event	Short Name	1	2	3	4	5			
Nausea	Nausea	_	Oral intake decreased without significant weight loss, dehydration or malnutrition; IV fluids indicated <24 hrs	Inadequate oral caloric or fluid intake; IV fluids, tube feedings, or TPN indicated >24 hrs	Life-threatening consequences	Death			
ALSO CONSIDER: Anorexia; Vo	omiting.								
Necrosis, GI - Select: - Anus - Colon/cecum/appendix - Duodenum - Esophagus - Gallbladder - Hepatic - Ileum - Jejunum - Oral - Pancreas - Peritoneal cavity - Pharynx - Rectum - Small bowel NOS - Stoma - Stomach	Necrosis, GI – <i>Select</i>			Inability to aliment adequately by GI tract (e.g., requiring enteral or parenteral nutrition); interventional radiology, endoscopic, or operative intervention indicated	Life-threatening consequences; operative intervention requiring complete organ resection (e.g., total colectomy)	Death			

		GASTR	OINTESTINAL			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Obstruction, GI - Select: - Cecum - Colon - Duodenum - Esophagus - Gallbladder - Ileum - Jejunum - Rectum - Small bowel NOS - Stoma - Stomach	Obstruction, GI – <i>Select</i>	Asymptomatic radiographic findings only	Symptomatic; altered GI function (e.g., altered dietary habits, vomiting, diarrhea, or GI fluid loss); IV fluids indicated <24 hrs	Symptomatic and severely altered GI function (e.g., altered dietary habits, vomiting, diarrhea, or GI fluid loss); IV fluids, tube feedings, or TPN indicated >24 hrs; operative intervention indicated	Life-threatening consequences; operative intervention requiring complete organ resection (e.g., total colectomy)	Death
NAVIGATION NOTE: Pelvic	ative injury is graded as In pain is graded as Pain – Perforation, GI –	Select in the PAIN CATE	GORY.		1	
Perforation, GI – Select: – Appendix – Biliary tree – Cecum – Colon – Duodenum – Esophagus – Gallbladder – Ileum – Jejunum – Rectum – Small bowel NOS – Stomach	Select	Asymptomatic radiographic findings only	Medical intervention indicated; IV fluids indicated <24 hrs	IV fluids, tube feedings, or TPN indicated >24 hrs; operative intervention indicated	Life-threatening consequences	Death
Proctitis	Proctitis	Rectal discomfort, intervention not indicated	Symptoms not interfering with ADL; medical intervention indicated	Stool incontinence or other symptoms interfering with ADL; operative intervention indicated	Life-threatening consequences (e.g., perforation)	Death

		GAST	ROINTESTINAL			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Rectal	or perirectal pain (proctal	gia) is graded as Pain –	Select in the PAIN CATEG	ORY.		
Salivary gland changes/saliva	Salivary gland changes	Slightly thickened saliva; slightly altered taste (e.g., metallic)	Thick, ropy, sticky saliva; markedly altered taste; alteration in diet indicated; secretion induced symptoms not interfering with ADL	Acute salivary gland necrosis; severe secretion-induced symptoms interfering with ADL	Disabling	_
ALSO CONSIDER: Dry mout alteration (dysgeusia).	h/salivary gland (xerostor	nia); Mucositis/stomatiti	is (clinical exam) – <i>Select</i> ; N	Mucositis/stomatitis (funct	tional/symptomatic) – S	Select; Taste
Stricture/stenosis (including anastomotic), GI – Select: – Anus – Biliary tree – Cecum – Colon – Duodenum – Esophagus – Ileum – Jejunum – Pancreas/panc. duct – Pharynx – Rectum – Small bowel NOS – Stoma – Stoma	Stricture, GI – <i>Select</i>	Asymptomatic radiographic findings only	Symptomatic; altered GI function (e.g., altered dietary habits, vomiting, bleeding, diarrhea); IV fluids indicated <24 hrs	Symptomatic and severely altered GI function (e.g., altered dietary habits, diarrhea, or GI fluid loss); IV fluids, tube feedings, or TPN indicated >24 hrs; operative intervention indicated	Life-threatening consequences; operative intervention requiring complete organ resection (e.g., total colectomy)	Death
Taste alteration (dysgeusia)	Taste alteration	Altered taste but no change in diet	Altered taste with change in diet (e.g., oral supplements); noxious or unpleasant taste; loss of taste	_	_	_

		GASTR	OINTESTINAL			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Typhlitis (cecal inflammation)	Typhlitis	Asymptomatic, pathologic or radiographic findings only	Abdominal pain; mucus or blood in stool	Abdominal pain, fever, change in bowel habits with ileus; peritoneal signs	Life-threatening consequences (e.g., perforation, bleeding, ischemia, necrosis); operative intervention indicated	Death
ALSO CONSIDER: Colitis;	Hemorrhage, GI – Select	; lleus, GI (functional obs	truction of bowel, i.e., neu	iroconstipation).		
Ulcer, GI – <i>Select:</i> – Anus – Cecum – Colon – Duodenum – Esophagus – Ileum – Jejunum – Rectum – Small bowel NOS – Stoma – Stomach	Ulcer, GI – <i>Select</i>	Asymptomatic, radiographic or endoscopic findings only	Symptomatic; altered GI function (e.g., altered dietary habits, oral supplements); IV fluids indicated <24 hrs	Symptomatic and severely altered GI function (e.g., inadequate oral caloric or fluid intake); IV fluids, tube feedings, or TPN indicated >24 hrs	Life-threatening consequences	Death
ALSO CONSIDER: Hemorr	hage, GI – <i>Select.</i>	1	1	1	1	
Vomiting	Vomiting	_	2 – 5 episodes in 24 hrs; IV fluids indicated <24 hrs	≥ 6 episodes in 24 hrs; IV fluids, or TPN indicated ≥ 24 hrs	Life-threatening consequences	Death
ALSO CONSIDER: Dehydr	ation.					
Gastrointestinal – Other (Specify,)	GI – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		NT				
		Grade				
Adverse Event	Short Name	1	2	3	4	5
Bone age (alteration in bone age)	Bone age	_	±2 SD (standard deviation) from normal	_	_	_
Bone growth: femoral head; slipped capital femoral epiphysis	Femoral head growth	Mild valgus/varus deformity	Moderate valgus/varus deformity, symptomatic, interfering with function but not interfering with ADL	Mild slipped capital femoral epiphysis; operative intervention (e.g., fixation) indicated; interfering with ADL	Disabling; severe slipped capital femoral epiphysis >60%; avascular necrosis	_
Bone growth: limb length discrepancy	Limb length	Mild length discrepancy <2 cm	Moderate length discrepancy 2 – 5 cm; shoe lift indicated	Severe length discrepancy >5 cm; operative intervention indicated; interfering with ADL	Disabling; epiphysiodesis	_
Bone growth: spine kyphosis/lordosis	Kyphosis/lordosis	Mild radiographic changes	Moderate accentuation; interfering with function but not interfering with ADL	Severe accentuation; operative intervention indicated; interfering with ADL	Disabling (e.g., cannot lift head)	_
Growth velocity (reduction in growth velocity)	Reduction in growth velocity	10 – 29% reduction in growth from the baseline growth curve	30 – 49% reduction in growth from the baseline growth curve	≥ 50% reduction in growth from the baseline growth curve	_	_
Puberty (delayed)	Delayed puberty		No breast development by age 13 yrs for females; no Tanner Stage 2 development by age 14.5 yrs for males	No sexual development by age 14 yrs for girls, age 16 yrs for boys; hormone replacement indicated	_	-
REMARK: Do not use testicular size for Tanner Stage in male cancer survivors.						

		GROWTH AND	DEVELOPMEN	п				
				Grade				
Adverse Event	Short Name	1	2	3	4	5		
Puberty (precocious)	Precocious puberty	_	Physical signs of puberty <7 years for females, <9 years for males	_	_	_		
Short stature	Short stature	Beyond two standard deviations of age and gender mean height	Altered ADL	-	_	-		
	s secondary to growth ho endocrine: growth hormon	-	1					
Growth and Development – Other (Specify,)	Growth and Development – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death		

		HEMORF	RHAGE/BLEEDIN	IG		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Hematoma	Hematoma	_	Minimally invasive evacuation or aspiration indicated	Transfusion, interventional radiology, or operative intervention indicated	Life-threatening consequences; major urgent intervention indicated	Death
Hemorrhage/bleeding from percutaneous transhepatic portal access, peritoneal cavity	Hemoperitoneum, procedure related	Rim of perihepatic fluid only on ultrasound (no transfusion)	Fluid (perihepatic and in pelvis) on ultrasound, and fall in hemoglobin of < 2.5 g/dL; no transfusion	Fluid on ultrasound with ≥ 2.5 g/dL drop in hemoglobin, or need for transfusion or surgical intervention	Life-threatening consequences; major urgent intervention indicated	Death
Hemorrhage/bleeding from percutaneous transhepatic portal access, thoracic cavity	Hemothorax, procedure-related	Rim of fluid on ultrasound, or blunting of costophrenic angle on chest x-ray, accompanied by decrease in hemoglobin < 2.0 gm/dL	Rim of fluid on ultrasound, or blunting of costophrenic angle on chest x-ray , accompanied by decrease in hemoglobin ≥ 2.0 gm/dL	Opacification of chest x-ray accompanied by decrease in hemoglobin ≥ 2.0 gm/dL	Life-threatening consequences; major urgent intervention (such as thoracostomy) indicated	Death
Hemorrhage/bleeding from percutaneous transhepatic portal access, biliary tract	Biliary tract bleeding, procedure related	_	Diagnosis by ultrasound, no transfusion or intervention required	Diagnosis by ultrasound, transfusion required	Life-threatening consequences; major urgent intervention (such as decompression or embolization) indicated	Death

		HEMORRHA	AGE/BLEEDIN	IG		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Hemorrhage, GI - Select: - Abdomen NOS - Anus - Biliary Tree - Cecum/appendix - Colon - Duodenum - Esophagus - Ileum - Jejunum - Liver - Lower GI NOS - Oral Cavity - Pancreas - Peritoneal Cavity - Rectum - Stoma - Stomach - Upper GI NOS - Varices (esophageal) - Varices (rectal)	Hemorrhage, GI – <i>Select</i>		Symptomatic and medical intervention or minor cauterization indicated	Transfusion, interventional radiology, endoscopic, or operative intervention indicated; radiation therapy (i.e., hemostasis of bleeding site)	Life-threatening consequences; major urgent intervention indicated	Death
Hemorrhage, GU <i>State Site:</i>	Hemorrhage, GU – <i>Select</i>		Gross bleeding, medical intervention, or urinary tract irrigation indicated	Transfusion, interventional radiology, endoscopic, or operative intervention indicated; radiation therapy (i.e., hemostasis of bleeding site)	Life-threatening consequences; major urgent intervention indicated	Death
Petechiae/purpura (hemorrhage/bleeding into skin or mucosa)	Petechiae	_	Moderate petechiae; purpura	Generalized petechiae or purpura	_	_
Hemorrhage/Bleeding – Other (Specify,)	Hemorrhage – Other (Specify)	Mild without transfusion	-	Transfusion indicated	Catastrophic bleeding, requiring major non-elective intervention	Death

	1			Grade		
Adverse Event	Short Name	1	2	3	4	5
A-V fistula post percutaneous access	A-V Fistula	_	Incidental finding on ultrasound. No significant shunting	Significant arteriovenous shunting – requires embolization or surgical intervention	Life-threatening; disabling	Death
Bile leak post percutaneous hepatic portal vein access	Bile leak	_	_	Biloma (biliary collection) requiring percutaneous or surgical drainage	Biliary peritonitis – requiring urgent surgical intervention	Death
NAVIGATION NOTE: Biliar Select; Perforation, GI	y tree damage is graded – <i>Select;</i> Stricture/stenos	as Fistula, GI – <i>Select;</i> Le is (including anastomotic),	eak (including anastomoti , GI – <i>Select</i> in the GAST	c), GI – <i>Select;</i> Necrosis, C ROINTESTINAL CATEGO	GI – <i>Select;</i> Obstruction, ( RY.	GI –
NAVIGATION NOTE: Biliar Select; Perforation, GI Cholecystitis	y tree damage is graded – <i>Select;</i> Stricture/stenos Cholecystitis	as Fistula, GI – <i>Select;</i> Le is (including anastomotic), Asymptomatic, radiographic findings only	eak (including anastomoti , GI – <i>Select</i> in the GAST Symptomatic, medical intervention indicated	c), GI – <i>Select;</i> Necrosis, C ROINTESTINAL CATEGO Interventional radiology, endoscopic, or operative intervention indicated	GI – <i>Select;</i> Obstruction, ( RY. Life-threatening consequences (e.g., sepsis or perforation)	GI – Death
Select; Perforation, GI Cholecystitis ALSO CONSIDER: Infectio	-Select; Stricture/stenos	is (including anastomotic), Asymptomatic, radiographic findings only	, GI – <i>Select</i> in the GAST Symptomatic, medical intervention indicated	ROINTESTINAL CATEGO Interventional radiology, endoscopic, or operative	RY. Life-threatening consequences (e.g., sepsis or perforation)	Death
Select; Perforation, GI Cholecystitis ALSO CONSIDER: Infectio	-Select; Stricture/stenos Cholecystitis n (documented clinically	is (including anastomotic), Asymptomatic, radiographic findings only	, GI – <i>Select</i> in the GAST Symptomatic, medical intervention indicated	ROINTESTINAL CATEGO Interventional radiology, endoscopic, or operative intervention indicated	RY. Life-threatening consequences (e.g., sepsis or perforation)	Death

		HEPATOBI	LIARY/PANCRE	AS		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Pancreas, exocrine enzyme deficiency	Pancreas, exocrine enzyme deficiency	_	Increase in stool frequency, bulk, or odor; steatorrhea	Sequelae of absorption deficiency (e.g., weight loss)	Life-threatening consequences	Death
ALSO CONSIDER: Diarrhe	a.					
Pancreatitis	Pancreatitis	Asymptomatic, enzyme elevation and/or radiographic	Symptomatic, medical intervention indicated	Interventional radiology or operative intervention indicated	Life-threatening consequences (e.g., circulatory failure,	Death
ALSO CONSIDER: Amylas	e.	findings			hemorrhage, sepsis)	
Portal vein thrombosis	PVT	_	Peripheral segmental branch vein thrombus	Thrombosed right or left portal vein branch, with patent main portal vein, and with no evidence of portal hypertension	Thrombosed main portal vein, with or without extension into SMV or splenic vein, or evidence of portal hypertension	Death
NAVIGATION NOTE: Strictu CATEGORY.	ure (biliary tree, hepatic	or pancreatic) is graded	d as Stricture/stenosis (in	cluding anastomotic), GI –	Select in the GASTROINTE	STINAL
Hepatobiliary/ Pancreas – Other (Specify,)	Hepatobiliary – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		INFE	ECTION			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Colitis, infectious (e.g., Clostridium difficile) ALSO CONSIDER: Hemorrhage	Colitis, infectious , GI – <i>Select;</i> Typhli	Asymptomatic, pathologic or radiographic findings only tis (cecal inflammation).	Abdominal pain with mucus and/or blood in stool	IV antibiotics or TPN indicated	Life-threatening consequences (e.g., perforation, bleeding, ischemia, necrosis or toxic megacolon); operative resection or diversion indicated	Death
Febrile neutropenia (fever of unknown origin without clinically or microbiologically documented infection) (ANC <1.0 x 10 <sup>9</sup> /L, fever ≥ 38.5°C)	Febrile neutropenia		_	Present	Life-threatening consequences (e.g., septic shock, hypotension, acidosis, necrosis)	Death
ALSO CONSIDER: Neutrophils/g	ranulocytes (ANC//	AGC).				
Infection (documented clinically or microbiologically) with Grade 3 or 4 neutrophils (ANC <1.0 x 10 <sup>9</sup> /L) – <i>Select</i> ' <i>Select</i> ' AEs appear at the	Infection (documented clinically) – <i>Select</i>		Localized, local intervention indicated	IV antibiotic, antifungal, or antiviral intervention indicated; interventional radiology or operative intervention indicated	Life-threatening consequences (e.g., septic shock, hypotension, acidosis, necrosis)	Death
end of the CATEGORY. REMARK: Fever with Grade 3 of or microbiologically document ALSO CONSIDER: Neutrophils/g	ted infection).		ed infection is graded a	as Febrile neutropenia (feve	er of unknown origin withou	t clinically
Infection with normal ANC or Grade 1 or 2 neutrophils – Select 'Select' AEs appear at the end of the CATEGORY.	Infection with normal ANC – <i>Select</i>	_	Localized, local intervention indicated	IV antibiotic, antifungal, or antiviral intervention indicated; interventional radiology or operative intervention indicated	Life-threatening consequences (e.g., septic shock, hypotension, acidosis, necrosis)	Death

		INFE	CTION			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Infection with unknown ANC – <i>Select</i> <i>'Select'</i> AEs appear at the end of the CATEGORY.	Infection with unknown ANC – <i>Select</i>		Localized, local intervention indicated	IV antibiotic, antifungal, or antiviral intervention indicated; interventional radiology or operative intervention indicated	Life-threatening consequences (e.g., septic shock, hypotension, acidosis, necrosis)	Death
REMARK: Infection with unknow	own ANC – <i>Select</i> is	to be used in the rare	case when ANC is unkno	own.		
Opportunistic infection associated with Grade 2 lymphopenia ALSO CONSIDER: Lymphopen	Opportunistic infection ia.	_	Localized, local intervention indicated	IV antibiotic, antifungal, or antiviral intervention indicated; interventional radiology or operative intervention indicated	Life-threatening consequences (e.g., septic shock, hypotension, acidosis, necrosis)	Death
Viral hepatitis	Viral hepatitis	Present; transaminases and liver function normal	Transaminases abnormal, liver function normal	Symptomatic liver dysfunction; fibrosis by biopsy; compensated cirrhosis	Decompensated liver function (e.g., ascites, coagulopathy, encephalopathy, coma)	Death
REMARK: Non-viral hepatitis i ALSO CONSIDER: Albumin, se transaminase); Bilirubin (hyp	rum-low (hypoalbumi	nemia); ALT, SGPT (s	serum glutamic pyruvic tra	ansaminase); AST, SGOT (se	erum glutamic oxaloacetic	2
Infection – Other (Specify,)	Infection – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

	<b>INFECTION - SELECT</b>	
CARDIOVASCULAR - Artery - Heart (endocarditis) - Spleen - Vein DERMATOLOGY/SKIN - Lip/perioral – mucus, ulcer - Peristomal - Ungual (nails) GASTROINTESTINAL - Abdomen NOS - Anal/perianal - Appendix - Cecum - Colon - Dental-tooth - Esophagus - Ileum - Jejunum - Oral cavity-gums (gingivitis) - Mouth ulcers - Peritoneal cavity - Rectum - Salivary gland - Small bowel NOS - Stomach	GENERAL - Blood - Catheter-related - Foreign body (e.g., graft, implant, prosthesis, stent) - Wound HEPATOBILIARY/PANCREAS - Biliary tree - Gallbladder (cholecystitis) - Liver - Pancreas LYMPHATIC - Lymphatic NEUROLOGY - Brain (encephalitis, infectious) - Brain + Spinal cord (encephalomyelitis) - Meninges (meningitis) - Nerve-cranial - Nerve-peripheral - Spinal cord (myelitis) OCULAR - Conjunctiva - Cornea - Eye NOS - Lens	PULMONARY/UPPER RESPIRATORY - Bronchus - Larynx - Lung (pneumonia) - Mediastinum NOS - Mucosa - Neck NOS - Nose - Paranasal - Pharynx - Pleura (empyema) - Sinus - Trachea - Upper aerodigestive NOS - Upper airway NOS RENAL/GENITOURINARY - Bladder (urinary) - Kidney - Prostate - Urinary tract NOS

		LYI	MPHATICS			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Chyle or lymph leakage	Chyle or lymph leakage	Asymptomatic, clinical or radiographic	Symptomatic, medical intervention indicated	Interventional radiology or operative intervention indicated	Life-threatening complications	Death
ALSO CONSIDER: Chylotho	orax	findings				
Dermal change lymphedema, phlebolymphedema	Dermal change	Trace thickening or faint discoloration	Marked discoloration; leathery skin texture; papillary formation	_	—	_
REMARK: Dermal change ALSO CONSIDER: Ulceration	<b>2</b> 1 1	oolymphedema refers to	changes due to venous	stasis		
Edema: head and neck	Edema: head and neck	Localized to dependent areas, no disability or functional impairment	Localized facial or neck edema with functional impairment	Generalized facial or neck edema with functional impairment (e.g., difficulty in turning neck or opening mouth compared to baseline)	Severe with ulceration or cerebral edema; tracheotomy or feeding tube indicated	Death
Edema: limb	Edema: limb	5 – 10% inter-limb discrepancy in volume or circumference at point of greatest visible difference; swelling or obscuration of anatomic architecture on close inspection; pitting edema	>10 – 30% inter-limb discrepancy in volume or circumference at point of greatest visible difference. Readily apparent obscuration of anatomic architecture; obliteration of skin folds; readily apparent deviation from normal anatomic contour	>30% inter-limb discrepancy in volume; lymphorrhea; Gross deviation from normal anatomic contour; interfering with ADL	Progression to malignancy (i.e., lymphangiosarcoma); amputation indicated; disabling	Death

		LY	MPHATICS			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Edema: trunk/genital	Edema: trunk/genital	Swelling or obscuration of anatomic architecture on close inspection; pitting edema	Readily apparent obscuration of anatomic architecture; obliteration of skin folds; readily apparent deviation from normal anatomic contour	Lymphorrhea; interfering with ADL; gross deviation from normal anatomic contour	Progression to malignancy (i.e., lymphangiosarcoma); disabling	Death
Edema: viscera	Edema: viscera		Symptomatic; medical intervention indicated	Symptomatic and unable to aliment adequately orally; interventional radiology or operative intervention indicated	Life-threatening consequences	Death
Lymphedema-related fibrosis	Lymphedema- related fibrosis	_	Marked increase in density and firmness, with or without tethering	Very marked density and firmness with tethering affecting ≥ 40% of the edematous area	_	_
Lymphocele	Lymphocele	_	Symptomatic; medical intervention indicated	Symptomatic and interventional radiology or operative intervention indicated	_	_
Phlebolymphatic cording	Phlebolymphatic cording	_	Symptomatic; medical intervention indicated	Symptomatic and leading to contracture or reduced range of motion	- -	_
Lymphatics – Other (Specify,)	Lymphatics – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

	MALIGNANCY						
	Grade						
Adverse Event	Short Name	1	2	3	4	5	
Malignancy – Previously undetected	Malignancy – Previously undetected	_	_	Non-life-threatening basal or squamous cell carcinoma of the skin	Solid tumor, leukemia or lymphoma	Death	
Malignancy – Possibly related to immunosuppression	Malignancy – Possibly related to immunosuppression	_	_	Non-life-threatening basal or squamous cell carcinoma of the skin	Solid tumor, leukemia or lymphoma	Death	

		METABOL	IC/LABORATO	RY		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Acidosis (metabolic or respiratory)	Acidosis	_	_	рН <7.3	pH <7.3 with life threatening consequences	Death
Albumin, serum-low (hypoalbuminemia)	Hypoalbuminemia	<lln 3="" dl<br="" g="" –=""><lln 30="" g="" l<="" td="" –=""><td>&lt;3 – 2 g/dL &lt;30 – 20 g/L</td><td>&lt;2 g/dL &lt;20 g/L</td><td>_</td><td>Death</td></lln></lln>	<3 – 2 g/dL <30 – 20 g/L	<2 g/dL <20 g/L	_	Death
Decreases in albumin are ex other time, report all grades.		post intra-portal islet i	nfusion, therefore, report	only grades 3, 4, and 5	within the first two weeks;	at any
Albuminuria	Albuminuria	—	<30 – 300 mg/24 hrs	>300 mg/24hrs	_	_
Alkaline phosphatase	Alkaline phosphatase	>ULN – 2.5 x ULN	>2.5 – 5.0 x ULN	>5.0 – 20.0 x ULN	>20.0 x ULN	_
Decreases in alkaline phosp weeks; at any other time, re	•	vithin 2 weeks post intra	a-portal islet infusion, ther	efore, report only grad	es 2, 3, 4, and 5 within the	first two
Alkalosis (metabolic or respiratory)	Alkalosis	pH >normal, but ≤ 7.5	-	pH >7.5	pH >7.5 with life- threatening consequences	Death
ALT (SGPT) and/or AST (SGOT)	ALT/AST (NPR)	>ULN – 2.5 x ULN	>2.5 – 5.0 x ULN	>5.0- 20.0 x ULN	Evidence of fulminant hepatic failure, with INR $\ge 2.5$ and AST/ALT $\ge 20.0 \times ULN$	Death
NOTE: Elevations in ALT, AS grades 3, 4, and 5 within the						
Amylase	Amylase	>ULN – 1.5 x ULN	>1.5 – 2.0 x ULN	>2.0 – 5.0 x ULN	>5.0 x ULN	

		METABOL	IC/LABORATOF	RY		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Bicarbonate, serum-low	Bicarbonate, serum- low	<lln 16="" l<="" mmol="" td="" –=""><td>&lt;16 – 11 mmol/L</td><td>&lt;11 – 8 mmol/L</td><td>&lt;8 mmol/L</td><td>Death</td></lln>	<16 – 11 mmol/L	<11 – 8 mmol/L	<8 mmol/L	Death
Decreases in bicarbonate any other time, report all		weeks post intra-portal is	let infusion, therefore, rep	ort only grades 2, 3, 4, an	d 5 within the first two v	veeks; at
Bilirubin (hyperbilirubinemia)	Bilirubin	>ULN – 1.5 x ULN	>1.5 – 3.0 x ULN	>3.0 – 10.0 x ULN	>10.0 x ULN	_
REMARK: Jaundice is not a grade bilirubin.	an AE, but may be a ma	anifestation of liver dysfur	nction/failure or elevated b	ilirubin. If jaundice is asso	bciated with elevated bil	lirubin,
Calcium, serum-low (hypocalcemia)	Hypocalcemia	<lln 8.0="" dl<br="" mg="" –=""><lln 2.0="" l<br="" mmol="" –="">Ionized calcium: <lln 1.0="" l<="" mmol="" td="" –=""><td>&lt;8.0 – 7.0 mg/dL &lt;2.0 – 1.75 mmol/L lonized calcium: &lt;1.0 – 0.9 mmol/L</td><td>&lt;7.0 – 6.0 mg/dL &lt;1.75 – 1.5 mmol/L lonized calcium: &lt;0.9 – 0.8 mmol/L</td><td>&lt;6.0 mg/dL &lt;1.5 mmol/L lonized calcium: &lt;0.8 mmol/L</td><td>Death</td></lln></lln></lln>	<8.0 – 7.0 mg/dL <2.0 – 1.75 mmol/L lonized calcium: <1.0 – 0.9 mmol/L	<7.0 – 6.0 mg/dL <1.75 – 1.5 mmol/L lonized calcium: <0.9 – 0.8 mmol/L	<6.0 mg/dL <1.5 mmol/L lonized calcium: <0.8 mmol/L	Death
calculation has been perf calcium is the definitive m	ormed: Corrected Calci nethod to diagnose meta	um (mg/dL) = Total Calci abolically relevant alterati	um (mg/dL) – 0.8 [Albumi	pocalcemia is reported afi n (g/dL) – 4]. <sup>4</sup> Alternatively ecreases in calcium are ex time, report all grades.	y, direct measurement of	of ionized
Calcium, serum-high (hypercalcemia)	Hypercalcemia	>ULN – 11.5 mg/dL >ULN – 2.9 mmol/L lonized calcium: >ULN – 1.5 mmol/L	>11.5 – 12.5 mg/dL >2.9 – 3.1 mmol/L lonized calcium: >1.5 – 1.6 mmol/L	>12.5 – 13.5 mg/dL >3.1 – 3.4 mmol/L lonized calcium: >1.6 – 1.8 mmol/L	>13.5 mg/dL >3.4 mmol/L lonized calcium: >1.8 mmol/L	Death
Cholesterol (total), serum-high (hypercholesterolemia)	Total Cholesterol	>ULN – 300 mg/dL >ULN – 7.75 mmol/L	>300 – 400 mg/dL >7.75 – 10.34 mmol/L	>400 – 500 mg/dL >10.34 – 12.92 mmol/L	>500 mg/dL >12.92 mmol/L	Death
Cholesterol (LDL), serum-high (in patients with type 1 diabetes mellitus)	LDL Cholesterol	_	100-130 mg/dL 2.58 – 3.36 mmol/L Requiring medical treatment AND change from pre- transplant baseline	>130 mg/dL >3.36 mmol/L or requiring > 1 med for treatment AND change from pre- transplant baseline	_	_

		METABO	OLIC/LABORATO	DRY		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
CPK (creatine phosphokinase)	СРК	>ULN – 2.5 x ULN	>2.5 x ULN – 5 x ULN	>5 x ULN – 10 x ULN	>10 x ULN	Death
Creatinine	Creatinine			>1.5 x ULN or ≥ 2 x pre- transplant baseline or requiring medication dose reduction/weaning	Progressive deterioration, chronic dialysis or renal transplant indicated	Death
REMARK: Adjust to age-app ALSO CONSIDER: Glomerula		atric patients.				
GGT (γ-Glutamyl transpeptidase)	GGT	>ULN – 2.5 x ULN	>2.5 – 5.0 x ULN	>5.0 – 20.0 x ULN	>20.0 x ULN	_
Note: Elevations in ALT, A 4, and 5 within the first 2 w						t only grades 3,
Measured glomerular filtration rate	GFR	_	< 75% LLN	< 50% LLN or requiring medication dose reduction/ weaning	Progressive deterioration, chronic dialysis or	Death
ALSO CONSIDER: Creatinine					renal transplant indicated	
Glucose, serum-high (hyperglycemia)	See Ketoacidosis in	ENDOCRINE Section				
Glucose, serum-low (hypoglycemia)	See Hypoglycemic E	event in ENDOCRINE Se	ection			
Hemoglobinuria	Hemoglobinuria	Present	_	_	_	Death
Lipase	Lipase	>ULN – 1.5 x ULN	>1.5 – 2.0 x ULN	>2.0 – 5.0 x ULN	>5.0 x ULN	_
Magnesium, serum-high (hypermagnesemia)	Hypermagnesemia	>ULN – 3.0 mg/dL >ULN – 1.23 mmol/L	_	>3.0 – 8.0 mg/dL >1.23 – 3.30 mmol/L	>8.0 mg/dL >3.30 mmol/L	Death

		METABO	LIC/LABORATO	RY		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Magnesium, serum-low (hypomagnesemia)	Hypomagnesemia	<lln 1.2="" dl<br="" mg="" –=""><lln 0.5="" l<="" mmol="" td="" –=""><td>&lt;1.2 – 0.9 mg/dL &lt;0.5 – 0.4 mmol/L</td><td>&lt;0.9 – 0.7 mg/dL &lt;0.4 – 0.3 mmol/L</td><td>&lt;0.7 mg/dL &lt;0.3 mmol/L</td><td>Death</td></lln></lln>	<1.2 – 0.9 mg/dL <0.5 – 0.4 mmol/L	<0.9 – 0.7 mg/dL <0.4 – 0.3 mmol/L	<0.7 mg/dL <0.3 mmol/L	Death
Decreases in magnesiur other time, report all grad		weeks post intra-portal is	slet infusion, therefore, repo	ort only grades 3, 4, and	5 within the first two week	s; at any
Phosphate, serum-low (hypophosphatemia)	Hypophosphatemia	<lln 2.5="" dl<br="" mg="" –=""><lln 0.8="" l<="" mmol="" td="" –=""><td>&lt;2.5 – 2.0 mg/dL &lt;0.8 – 0.6 mmol/L</td><td>&lt;2.0 – 1.0 mg/dL &lt;0.6 – 0.3 mmol/L</td><td>&lt;1.0 mg/dL &lt;0.3 mmol/L</td><td>Death</td></lln></lln>	<2.5 – 2.0 mg/dL <0.8 – 0.6 mmol/L	<2.0 – 1.0 mg/dL <0.6 – 0.3 mmol/L	<1.0 mg/dL <0.3 mmol/L	Death
Decreases in phosphate other time, report all grad		eeks post intra-portal isl	et infusion, therefore, repo	rt only grades 3, 4, and s	5 within the first two weeks	; at any
Potassium, serum-high (hyperkalemia)	Hyperkalemia	>ULN – 5.5 mmol/L	>5.5 – 6.0 mmol/L	>6.0 – 7.0 mmol/L	>7.0 mmol/L	Death
Increases in potassium a other time, report all grad	•	ı eks post intra-portal isle	I t infusion, therefore, report	I only grades 3, 4, and 5	within the first two weeks;	at any
Potassium, serum-low (hypokalemia)	Hypokalemia	<lln 3.0="" l<="" mmol="" td="" –=""><td>_</td><td>&lt;3.0 – 2.5 mmol/L</td><td>&lt;2.5 mmol/L</td><td>Death</td></lln>	_	<3.0 – 2.5 mmol/L	<2.5 mmol/L	Death
Decreases in potassium other time, report all grad		eeks post intra-portal isl	et infusion, therefore, repor	rt only grades 3, 4, and 5	5 within the first two weeks	; at any
Proteinuria	Proteinuria	0.15 – 0.5 g/24 hrs	>0.5 – 1.0 g/24 hrs	1.0 - 3.0 g/24 hrs	>3.0 g/24 hrs or Nephrotic syndrome	Death
Sodium, serum-high (hypernatremia)	Hypernatremia	>ULN – 150 mmol/L	>150 – 155 mmol/L	>155 – 160 mmol/L	>160 mmol/L	Death
Sodium, serum-low (hyponatremia)	Hyponatremia	<lln 130="" l<="" mmol="" td="" –=""><td>_</td><td>&lt;130 – 120 mmol/L</td><td>&lt;120 mmol/L</td><td>Death</td></lln>	_	<130 – 120 mmol/L	<120 mmol/L	Death
Decreases in alkaline so any other time, report all		n 2 weeks post intra-por	tal islet infusion, therefore,	report only grades 3, 4,	and 5 within the first two w	veeks; at
Triglyceride, serum- high (hypertriglyceridemia)	Hypertriglyceridemia	>ULN – 2.5 x ULN	>2.5 – 5.0 x ULN	>5.0 – 10 x ULN	>10 x ULN	Death

	METABOLIC/LABORATORY								
			Grade						
Adverse Event	Short Name	1	2	3	4	5			
Uric acid, serum-high (hyperuricemia)	Hyperuricemia	>ULN – 10 mg/dL ≤ 0.59 mmol/L without physiologic consequences		>ULN – 10 mg/dL ≤ 0.59 mmol/L with physiologic consequences	>10 mg/dL >0.59 mmol/L	Death			
ALSO CONSIDER: Creatinii	ne; Potassium, serum-hi	gh (hyperkalemia); Rena	al failure; Tumor lysis synd	rome.					
Metabolic/Laboratory – Other (Specify,)	Metabolic/Lab – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death			

		MUSCULOSKEL	ETAL/SOFT TIS	SUE					
Grade									
Adverse Event	Short Name	1	2	3	4	5			
Arthritis (non-septic)	Arthritis	Mild pain with inflammation, erythema, or joint swelling, but not interfering with function	Moderate pain with inflammation, erythema, or joint swelling interfering with function, but not interfering with ADL	Severe pain with inflammation, erythema, or joint swelling and interfering with ADL	Disabling	Death			
		nritis (e.g., inflammation of a nmatory in character) is gra		rized by inflammation of join he PAIN CATEGORY.	ts) is made. Arthralgia	(sign or			
Bone: spine-scoliosis	Scoliosis	≤ 20 degrees; clinically undetectable	> 20 – 45 degrees; visible by forward flexion; interfering with function but not interfering with ADL	>45 degrees; scapular prominence in forward flexion; operative intervention indicated; interfering with ADL	Disabling (e.g., interfering with cardiopulmonary function)	Death			
Cervical spine-range of motion	Cervical spine ROM	Mild restriction of rotation or flexion between 60 – 70 degrees	Rotation <60 degrees to right or left; <60 degrees of flexion	Ankylosed/fused over multiple segments with no C-spine rotation	_	_			
REMARK: 60 – 65 degre	es of rotation is required	for reversing a car; 60 – 6	5 degrees of flexion is req	uired to tie shoes.					
Exostosis	Exostosis	Asymptomatic	Involving multiple sites; pain or	Excision indicated	Progression to malignancy (i.e.,	Death			

		Grade						
Adverse Event	Short Name	1	2	3	4	5		
Extremity-lower (gait/walking)	Gait/walking	Limp evident only to trained observer and able to walk ≥ 1 kilometer; cane indicated for walking	Noticeable limp, or limitation of limb function, but able to walk ≥ 0.1 kilometer (1 city block); quad cane indicated for walking	Severe limp with stride modified to maintain balance (widened base of support, marked reduction in step length); ambulation limited to walker; crutches indicated	Unable to walk			
ALSO CONSIDER: Ataxia	a (incoordination); Musc	le weakness, generalized o	or specific area (not due to	neuropathy) – Select.				
Extremity-upper (function)	Extremity-upper (function)	Able to perform most household or work activities with affected limb	Able to perform most household or work activities with compensation from unaffected limb	Interfering with ADL	Disabling; no function of affected limb	_		
Fibrosis-cosmesis	Fibrosis-cosmesis	Visible only on close examination	Readily apparent but not disfiguring	Significant disfigurement; operative intervention indicated if patient chooses	_	-		
Fibrosis-deep connective tissue	Fibrosis-deep connective tissue	Increased density, "spongy" feel	Increased density with firmness or tethering	Increased density with fixation of tissue; operative intervention indicated; interfering with ADL	Life-threatening; disabling; loss of limb; interfering with vital organ function	Death		

		MUSCULOSKELI	ETAL/SOFT TIS	SUE				
		Grade						
Adverse Event	Short Name	1	2	3	4	5		
Fracture	Fracture	Asymptomatic, radiographic findings only (e.g., asymptomatic rib fracture on plain x-ray, pelvic insufficiency fracture on MRI, etc.)	Symptomatic but nondisplaced; immobilization indicated	Symptomatic and displaced or open wound with bone exposure; operative intervention indicated	Disabling; amputation indicated	Death		
Joint-effusion	Joint-effusion	Asymptomatic, clinical or radiographic findings only	Symptomatic; interfering with function but not interfering with ADL	Symptomatic and interfering with ADL	Disabling	Death		
ALSO CONSIDER: Arthrit	is (non-septic).							
Joint-function₅	Joint-function	Stiffness interfering with athletic activity; ≤ 25% loss of range of motion (ROM)	Stiffness interfering with function but not interfering with ADL; >25 – 50% decrease in ROM	Stiffness interfering with ADL; >50 – 75% decrease in ROM	Fixed or non- functional joint (arthrodesis); >75% decrease in ROM	_		
ALSO CONSIDER: Arthrit	is (non-septic).							
Local complication – device/prosthesis- related	Device/prosthesis	Asymptomatic	Symptomatic, but not interfering with ADL; local wound care; medical intervention indicated	Symptomatic, interfering with ADL; operative intervention indicated (e.g., hardware/device replacement or removal, reconstruction	Life-threatening; disabling; loss of limb or organ	Death		

	MUS	SCULOSKELE	TAL/SOFT TISS	UE			
		Grade					
Adverse Event	Short Name	1	2	3	4	5	
Lumbar spine-range of motion	Lumbar spine ROM	Stiffness and difficulty bending to the floor to pick up a very light object but able to do activity	Some lumbar spine flexion but requires a reaching aid to pick up a very light object from the floor	Ankylosed/fused over multiple segments with no L-spine flexion (i.e., unable to reach to floor to pick up a very light object	_	_	
Muscle weakness, generalized or specific area (not due to neuropathy) - Select: - Extraocular - Extremity-lower - Extremity-lower - Facial - Left-sided - Ocular - Pelvic - Right-sided - Trunk - Whole body/generalized ALSO CONSIDER: Fatigue (asth	Muscle weakness – <i>Select</i> enia, lethargy, malaise)	Asymptomatic, weakness on physical exam	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL	Life-threatening; disabling	Death	
Muscular/skeletal hypoplasia	Muscular/skeletal hypoplasia	Cosmetically and functionally insignificant hypoplasia	Deformity, hypoplasia, or asymmetry able to be remediated by prosthesis (e.g., shoe insert) or covered by clothing	Functionally significant deformity, hypoplasia, or asymmetry, unable to be remediated by prosthesis or covered by clothing	Disabling	-	

	MU	SCULOSKELE	TAL/SOFT TISS	UE			
		Grade					
Adverse Event	Short Name	1	2	3	4	5	
Myositis (inflammation/damage of muscle)	Myositis	Mild pain, not interfering with function	Pain interfering with function, but not interfering with ADL	Pain interfering with ADL	Disabling	Death	
REMARK: Myositis implies mu ALSO CONSIDER: CPK (creating							
Osteonecrosis (avascular necrosis)	Osteonecrosis	Asymptomatic, radiographic findings only	Symptomatic and interfering with function, but not interfering with ADL; minimal bone removal indicated (i.e., minor sequestrectomy)	Symptomatic and interfering with ADL; operative intervention or hyperbaric oxygen indicated	Disabling	Death	
Osteoporosis <sup>6</sup>	Osteoporosis	Radiographic evidence of osteoporosis or Bone Mineral Density (BMD) t-score –1 to –2.5 (osteopenia) and no loss of height or therapy indicated	BMD t-score < -2.5; loss of height <2 cm; anti-osteoporotic therapy indicated	Fractures; loss of height ≥ 2 cm	Disabling	Death	
Seroma	Seroma	Asymptomatic	Symptomatic; medical intervention or simple aspiration indicated	Symptomatic, interventional radiology or operative intervention indicated	_	—	

<sup>&</sup>lt;sup>6</sup> "Assessment of Fracture Risk and its Application to Screening for Postmenopausal Osteoporosis," Report of a *WHO Study Group Technical Report Series,* No. 843, 1994, v + 129 pages [C\*, E, F, R, S], ISBN 92 4 120843 0, Sw.fr. 22.-/US \$19.80; in developing countries: Sw.fr. 15.40, Order no. 1100843

	MUS	SCULOSKELI	ETAL/SOFT TISS	UE		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Soft tissue necrosis – Select: – Abdomen – Extremity-lower – Extremity-upper – Head – Neck – Pelvic – Thorax	Soft tissue necrosis – <i>Select</i>		Local wound care; medical intervention indicated	Operative debridement or other invasive intervention indicated (e.g., hyperbaric oxygen)	Life-threatening consequences; major invasive intervention indicated (e.g., tissue reconstruction, flap, or grafting)	Death
Trismus (difficulty, restriction or pain when opening mouth)	Trismus	Decreased range of motion without impaired eating	Decreased range of motion requiring small bites, soft foods or purees	Decreased range of motion with inability to adequately aliment or hydrate orally	_	_
NAVIGATION NOTE: Wound-infe	ctious is graded as Infe	ction – <i>Select</i> in the II	NFECTION CATEGORY.			
NAVIGATION NOTE: Wound non-	infectious is graded as	Wound complication,	non-infectious in the DERM	ATOLOGY/SKIN CATEGO	DRY.	
Musculoskeletal/Soft Tissue – Other (Specify,)	Musculoskeletal – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		NEUF	ROLOGY				
		Grade					
Adverse Event	Short Name	1	2	3	4	5	
NAVIGATION NOTE: ADD (A	Attention Deficit Disorde	r) is graded as Cognitive of	disturbance.				
NAVIGATION NOTE: Aphasia	a, receptive and/or expr	essive, is graded as Spee	ech impairment (e.g., dysp	ohasia or aphasia).			
Apnea	Apnea	_	_	Present	Intubation indicated	Death	
Arachnoiditis/ meningismus/radiculitis	Arachnoiditis	Symptomatic, not interfering with function; medical intervention indicated	Symptomatic (e.g., photophobia, nausea) interfering with function but not interfering with ADL	Symptomatic, interfering with ADL	Life-threatening; disabling (e.g., paraplegia)	Death	
ALSO CONSIDER: Fever (in with Grade 3 or 4 neutrop Select; Pain – Select; Vo	ohils (ANC <1.0 x 10 <sup>9</sup> /L)	enia, where neutropenia – <i>Select;</i> Infection with n	is defined as ANC <1.0 x ormal ANC or Grade 1 or	10 <sup>9</sup> /L); Infection (docume 2 neutrophils – <i>Select;</i> In	ented clinically or microbion fection with unknown AN	ologically IC –	
Ataxia (incoordination)	Ataxia	Asymptomatic	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL; mechanical assistance indicated	Disabling	Death	
REMARK: Ataxia (incoordin	nation) refers to the con	sequence of medical or o	perative intervention.				
Brachial plexopathy	Brachial plexopathy	Asymptomatic	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL	Disabling	Death	
CNS Cerebrovascular ischemia	CNS ischemia	_	Asymptomatic, radiographic findings only	Transient ischemic event or attack (TIA) <24 hrs duration	Cerebral vascular accident (CVA, stroke), neurologic deficit >24 hrs	Death	
CNS necrosis/ cystic progression	CNS necrosis	Asymptomatic, radiographic findings only	Symptomatic, not interfering with ADL; medical intervention indicated	Symptomatic and interfering with ADL; hyperbaric oxygen indicated	Life-threatening; disabling; operative intervention indicated to prevent or treat CNS necrosis/cystic progression	Death	

		NEU	ROLOGY				
		Grade					
Adverse Event	Short Name	1	2	3	4	5	
Cognitive disturbance	Cognitive disturbance	Mild cognitive disability; not interfering with work/ school/life performance; specialized educational services/devices not indicated	Moderate cognitive disability; interfering with work/school/life performance but capable of independent living; specialized resources on part-time basis indicated	Severe cognitive disability; significant impairment of work/school/life performance	Unable to perform ADL; full-time specialized resources or institutionalization indicated	Death	
REMARK: Cognitive distur	bance may be used f	for Attention Deficit Disorder	(ADD).				
Confusion	Confusion	Transient confusion, disorientation, or attention deficit	Confusion, disorientation, or attention deficit interfering with function, but not interfering with ADL	Confusion or delirium interfering with ADL	Harmful to others or self; hospitalization indicated	Death	
REMARK: Attention Deficit	Disorder (ADD) is g	raded as Cognitive disturbar	nce. (ADD) is graded as Cog	nitive disturbance.	I		
Dizziness	Dizziness	With head movements or nystagmus only; not interfering with function	Interfering with function, but not interfering with ADL	Interfering with ADL	Disabling	_	
REMARK: Dizziness includ Also Consider: Neuropa		htheadedness, and vertigo. Syncope (fainting).					
NAVIGATION NOTE: Dyspha	asia, receptive and/o	r expressive, is graded as S	speech impairment (e.g., dysp	hasia or aphasia).			
Encephalopathy	Encephalopathy	_	Mild signs or symptoms; not interfering with ADL	Signs or symptoms interfering with ADL; hospitalization indicated	Life-threatening; disabling	Death	

		NEURC	DLOGY				
			Gr	ade			
Adverse Event	Short Name	1	2	3	4	5	
Extrapyramidal/ involuntary movement/ restlessness	Involuntary movement	_	_	Severe involuntary	Disabling	_	
NAVIGATION NOTE: Heada as Pain – <i>Select</i> in the PA		jaw pain, neurologic pain	, phantom limb pain, post-infe	ctious neuralgia, or paint	ful neuropathies) is	graded	
Leukoencephalopathy (radiographic findings)	Leukoencephalopathy	Mild increase in subarachnoid space (SAS); mild ventriculomegaly; small (± multiple) focal T2 hyperintensities, involving periventricular white matter or <1/3 of susceptible areas of cerebrum	Moderate increase in SAS; moderate ventriculomegaly; focal T2 hyperintensities extending into centrum ovale or involving 1/3 to 2/3 of susceptible areas of cerebrum	Severe increase in SAS; severe ventriculomegaly; near total white matter T2 hyperintensities or diffuse low attenuation (CT)	_	_	
	ppathy is a diffuse white mather thare areas that become v		NOT associated with necrosis	. Leukoencephalopathy	(radiographic findir	ngs) doe	
Mood alteration – Select: – Agitation – Anxiety – Depression – Euphoria	Mood alteration – Select	Mild mood alteration not interfering with function	Moderate mood alteration interfering with function, but not interfering with ADL; medication indicated	Severe mood alteration interfering with ADL	Suicidal ideation; danger to self or others	Death	

		NEUROL	OGY			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Neuropathy: cranial – <i>Select:</i>	Neuropathy: cranial – Select	Asymptomatic, detected on exam/testing only	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL	Life-threatening; disabling	Death
<ul> <li>CN IV Downward, inwa</li> <li>CN V Motor-jaw musci</li> <li>CN VI Lateral deviation</li> <li>CN VII Motor-face; Se</li> <li>CN VIII Hearing and b</li> <li>CN IX Motor-pharynx;</li> <li>CN X Motor-palate; ph</li> <li>CN XI Motor-sternoma</li> <li>CN XII Motor-tongue</li> </ul>	les; Sensory-facial n of eye nsory-taste alance Sensory-ear, pharynx, tong narynx, larynx astoid and trapezius		Select.			
Personality/behavioral	a	Change, but not dversely affecting atient or family	Change, adversely affecting patient or family	Mental health intervention indicated	Change harmful to others or self; hospitalization indicated	Death
Psychosis (hallucinations/ delusions)	Psychosis -	_	Transient episode	Interfering with ADL; medication, supervision or restraints indicated	Harmful to others or self; life-threatening consequences	Death

		NE	UROLOGY			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Speech impairment (e.g., dysphasia or aphasia)	Speech impairment	_	Awareness of receptive or expressive dysphasia, not impairing ability to communicate	Receptive or expressive dysphasia, impairing ability to communicate	Inability to communicate	_
			ropathy or end organ dysfund a (e.g., hoarseness, loss, or a		is).	
Syncope (fainting)	Syncope (fainting)	—		Present	Life-threatening consequences	Death
	cerebrovascular ischemia; pisode; Ventricular arrhyth		ty/atrioventricular heart block	∖ <i>– Select;</i> Dizziness; Sup	raventricular and nodal	l arrhythmi
NAVIGATION NOTE: Tast	te alteration (CN VII, IX) is	graded as Taste altera	ation (dysgeusia) in the GAS <sup>-</sup>	TROINTESTINAL CATEO	GORY.	
Tremor	Tremor	Mild and brief or intermittent but not interfering with function	Moderate tremor interfering with function, but not interfering with ADL	Severe tremor interfering with ADL	Disabling	_
Neurology – Other (Specify,)	Neurology – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		OCU	LAR/VISUAL			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Nystagmus	Nystagmus	Asymptomatic	Symptomatic and interfering with function but not interfering with ADL	Symptomatic and interfering with ADL	Disabling	-
ALSO CONSIDER: Neuro	opathy: cranial – <i>Select;</i> O	phthalmoplegia/diplopia (	double vision).			
Ocular surface disease	Ocular surface disease	Asymptomatic or Minimally symptomatic but not interfering with function	Symptomatic, interfering with function but not interfering with ADL; topical antibiotics or other topical intervention indicated	Symptomatic, interfering with ADL; operative intervention indicated	_	-
REMARK: Ocular surfa	ce disease includes conju	nctivitis, keratoconjunctivit	is sicca, chemosis, keratiniza	tion, and palpebral conjunc	tival epithelial me	etaplasia.
Ophthalmoplegia/ diplopia (double vision)	Diplopia	Intermittently symptomatic, intervention not indicated	Symptomatic and interfering with function but not interfering with ADL	Symptomatic and interfering with ADL; surgical intervention indicated	Disabling	_
ALSO CONSIDER: Neuro	opathy: cranial – <i>Select.</i>					
Optic disc edema	Optic disc edema opathy: cranial – <i>Select</i> .	Asymptomatic	Decreased visual acuity (20/40 or better); visual field defect present	Decreased visual acuity (worse than 20/40); marked visual field defect but sparing the central 20 degrees	Blindness (20/200 or worse)	-
Proptosis/ enophthalmos	Proptosis/ enophthalmos	Asymptomatic, intervention not indicated	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL	-	_

		00	ULAR/VISUAL			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Retinal detachment	Retinal detachment	Exudative; no central vision loss; intervention not indicated	Exudative and visual acuity 20/40 or better but intervention not indicated	Rhegmatogenous or exudative detachment; operative intervention indicated	Blindness (20/200 or worse)	_
Retinopathy	Retinopathy			Minimum of a 3 step progression using the Early Treatment Diabetic Retinopathy Study grading system, or equivalent progression as certified by an ophthalmologist familiar with diabetic retinopathy	Blindness (20/200 or worse)	_
Scleral necrosis/melt	Scleral necrosis	Asymptomatic or symptomatic but not interfering with function	Symptomatic, interfering with function but not interfering with ADL; moderate decrease in visual acuity (20/40 or better); medical intervention indicated	Symptomatic, interfering with ADL; marked decrease in visual acuity (worse than 20/40); operative intervention indicated	Blindness (20/200 or worse); painful eye with enucleation indicated	_
Uveitis	Uveitis	Asymptomatic	Anterior uveitis; medical intervention indicated	Posterior or pan-uveitis; operative intervention indicated	Blindness (20/200 or worse)	_
Vision-blurred vision	Blurred vision	Symptomatic not interfering with function	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL	Disabling	_

		OCUL	AR/VISUAL				
		Grade					
Adverse Event	Short Name	1	2	3	4	5	
Vision-flashing lights/floaters	Flashing lights	Symptomatic not interfering with function	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL	Disabling	-	
Vision-photophobia	Photophobia	Symptomatic not interfering with function	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL	Disabling	—	
Vitreous hemorrhage	Vitreous hemorrhage	Asymptomatic, clinical findings only	Symptomatic, interfering with function, but not interfering with ADL; intervention not indicated	Symptomatic, interfering with ADL; vitrectomy indicated	_	—	
Watery eye (epiphora, tearing)	Watery eye	Symptomatic, intervention not indicated	Symptomatic, interfering with function but not interfering with ADL	Symptomatic, interfering with ADL	-	_	
Ocular/Visual – Other (Specify,)	Ocular – Other (Specify)	Symptomatic not interfering with function	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL	Blindness (20/200 or worse)	Death	

		F	PAIN			
			(	Grade		
Adverse Event	Short Name	1	2	3	4	5
Pain – <i>Select:</i> <i>'Select'</i> AEs appear at the end of the CATEGORY.	Pain – <i>Select</i>	Mild pain not interfering with function	Moderate pain; pain or analgesics interfering with function, but not interfering with ADL	Severe pain; pain or analgesics severely interfering with ADL	Disabling	-
Pain – Other (Specify,)	Pain – Other (Specify)	Mild pain not interfering with function	Moderate pain; pain or analgesics interfering with function, but not interfering with ADL	Severe pain; pain or analgesics severely interfering with ADL	Disabling	_
		PAI	N – SELECT			
AUDITORY/EAR – External ear – Middle ear CARDIOVASCULAR – Cardiac/heart – Pericardium DERMATOLOGY/SKIN – Face – Lip – Oral-gums – Scalp – Skin GASTROINTESTINAL – Abdomen NOS – Anus – Dental/teeth/periodontal – Esophagus – Oral cavity – Peritoneum – Rectum – Stomach GENERAL – Pain NOS	- - - - - - - - - - - - - - - - - - -	IEPATOBILIARY/PAI - Gallbladder - Liver - YMPHATIC - Lymph node //USCULOSKELETAI - Back - Back - Bone - Buttock - Buttock - Extremity-limb - Intestine - Joint - Muscle - Neck - Phantom (pain asso NEUROLOGY - Head/headache - Neuralgia/peripheral DCULAR - Eye PULMONARY/UPPEF - Chest wall - Chest/thorax NOS	- ciated with missing limb)	PULMONARY/UPPEI – Larynx – Pleura – Sinus – Throat/pharynx/lary RENAL/GENITOURI – Bladder – Kidney SEXUAL/REPRODUC – Breast – Ovulatory – Pelvis – Penis – Penis – Penis – Perineum – Prostate – Scrotum – Testicle – Urethra – Uterus – Vagina	nx NARY	

Grade								
Adverse Event	Short Name	1	2	3	4	5		
Adult Respiratory Distress Syndrome (ARDS)	ARDS	_	_	Present, intubation not indicated	Present, intubation indicated	Death		
ALSO CONSIDER: Dysp	nea (shortness of bre	ath); Hypoxia; Pneumon	itis/pulmonary infiltrates.					
Aspiration	Aspiration	Asymptomatic ("silent aspiration"); endoscopy or radiographic (e.g., barium swallow)	Symptomatic (e.g., altered eating habits, coughing or choking episodes consistent with aspiration); medical intervention indicated (e.g.,	Clinical or radiographic signs of pneumonia or pneumonitis; unable to aliment orally	Life-threatening (e.g., aspiration pneumonia or pneumonitis)	Death		
ALSO CONSIDER: Infect	ion (documented clin	findings	antibiotics, suction or oxygen) ) with Grade 3 or 4 neutrophils (	ANC <1.0 x 1 0 <sup>9</sup> /L) – <i>Sel</i>	ect; Infection with normal	ANC or		
ALSO CONSIDER: Infect Grade 1 or 2 neutroph infiltrates. Atelectasis	tion (documented clin hils – <i>Select;</i> Infection Atelectasis	ically or microbiologically	oxygen)	ANC <1.0 x 1 0 <sup>9</sup> /L) – <i>Sel</i> on; Neuropathy: cranial – Operative (e.g., stent, laser) intervention indicated	ect; Infection with normal Select; Pneumonitis/pulm Life-threatening respiratory compromise	ANC or nonary		
Grade 1 or 2 neutroph infiltrates. Atelectasis ALSO CONSIDER: Adult microbiologically) with	Atelectasis Atelectasis Respiratory Distress	ically or microbiologically with unknown ANC – So Asymptomatic Syndrome (ARDS); Cou phils (ANC <1.0 x 109/L)	oxygen) v) with Grade 3 or 4 neutrophils ( elect; Laryngeal nerve dysfunction Symptomatic (e.g., dyspnea, cough), medical intervention indicated (e.g., bronchoscopic suctioning, chest physiotherapy,	on; Neuropathy: cranial – Operative (e.g., stent, laser) intervention indicated h); Hypoxia; Infection (dc	Select; Pneumonitis/pulm Life-threatening respiratory compromise	Death		

		PULMONARY	UPPER RESPIR	ATORY		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Carbon monoxide diffusion capacity (DL <sub>CO</sub> )	DL <sub>CO</sub>	90 – 75% of predicted value	<75 – 50% of predicted value	<50 – 25% of predicted value	<25% of predicted value	Death
ALSO CONSIDER: Hypoxia	; Pneumonitis/pulmor	ary infiltrates; Pulmonary	/ fibrosis (radiographic char	nges).		
Chylothorax	Chylothorax	Asymptomatic	Symptomatic; thoracentesis or tube drainage indicated	Operative intervention indicated	Life-threatening (e.g., hemodynamic instability or ventilatory support indicated)	Death
Cough	Cough	Symptomatic, non- narcotic medication only indicated	Symptomatic and narcotic medication indicated	Symptomatic and significantly interfering with sleep or ADL	_	_
Dyspnea (shortness of breath)	Dyspnea	Dyspnea on exertion, but can walk 1 flight of stairs without stopping	Dyspnea on exertion but unable to walk 1 flight of stairs or 1 city block (0.1km) without stopping	Dyspnea with ADL	Dyspnea at rest; intubation/ventilator indicated	Death
ALSO CONSIDER: Hypoxia	; Neuropathy: motor;	Pneumonitis/pulmonary i	nfiltrates; Pulmonary fibrosi	s (radiographic change	es).	
Edema, larynx	Edema, larynx	Asymptomatic edema by exam only	Symptomatic edema, no respiratory distress	Stridor; respiratory distress; interfering with ADL	Life-threatening airway compromise; tracheotomy, intubation, or laryngectomy	Death
ALSO CONSIDER: Allergic re	eaction/hypersensitivi	ty (including drug fever).			indicated	
FEV <sub>1</sub>	FEV <sub>1</sub>	90 – 75% of predicted value	<75 – 50% of predicted value	<50 – 25% of predicted value	<25% of predicted	Death

		Grade						
Adverse Event	Short Name	1	2	3	4	5		
Fistula, pulmonary/upper respiratory – <i>Select:</i> – Bronchus – Larynx – Lung – Oral cavity – Pharynx – Pleura – Trachea	Fistula, pulmonary <i>– Select</i>	Asymptomatic, radiographic findings only	Symptomatic, tube thoracostomy or medical management indicated; associated with altered respiratory function but not interfering with ADL	Symptomatic and associated with altered respiratory function interfering with ADL; or endoscopic (e.g., stent) or primary closure by operative intervention indicated	Life-threatening consequences; operative intervention with thoracoplasty, chronic open drainage or multiple thoracotomies indicated	Death		
be the site from which the	abnormal process is b	elieved to have arisen.	o body cavities, potential s For example, a tracheo-es igus in the GASTROINTES Symptomatic, intervention indicated	ophageal fistula arising				
Hypoxia	Нурохіа	_	Decreased O <sub>2</sub> saturation with exercise (e.g., pulse oximeter <88%); intermittent supplemental oxygen	saturation at rest;	Life-threatening; intubation or ventilation indicated	Death		
Nasal cavity/paranasal sinus reactions	Nasal/paranasal reactions	Asymptomatic mucosal crusting, blood-tinged secretions	Symptomatic stenosis or edema/narrowing interfering with airflow	Stenosis with significant nasal obstruction; interfering with	Necrosis of soft tissue or bone	Death		

	I	PULMONARY/U	PPER RESPIRAT	ORY		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Obstruction/stenosis of airway – <i>Select:</i> – Bronchus – Larynx – Pharynx – Trachea	Airway obstruction – <i>Select</i>	Asymptomatic obstruction or stenosis on exam, endoscopy, or radiograph	Symptomatic (e.g., noisy airway breathing), but causing no respiratory distress; medical management indicated (e.g., steroids)	Interfering with ADL; stridor or endoscopic intervention indicated (e.g., stent, laser)	Life-threatening airway compromise; tracheotomy or intubation indicated	Death
Pleural effusion (non-malignant)	Pleural effusion	Asymptomatic	Symptomatic, intervention such as diuretics or up to 2 therapeutic thoracenteses indicated	Symptomatic and supplemental oxygen, >2 therapeutic thoracenteses, tube drainage, or pleurodesis indicated	Life-threatening (e.g., causing hemodynamic instability or ventilatory support indicated)	Death
ALSO CONSIDER: Atelectasi NAVIGATION NOTE: Pleuritic			coxia; Pneumonitis/pulmonar	ry infiltrates; Pulmonary fi	brosis (radiographic char	nges).
Pneumonitis/pulmonary infiltrates	Pneumonitis	Asymptomatic, radiographic findings only	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL; O <sub>2</sub> indicated	Life-threatening; ventilatory support indicated	Death
microbiologically) with Gra	ade 3 or 4 neutrophil	s (ANC <1.0 x 10 <sup>9</sup> /L) – Se	Dyspnea (shortness of breatl <i>elect;</i> Infection with normal A ibrosis (radiographic change	NC or Grade 1 or 2 neutr	cumented clinically or ophils – <i>Select;</i> Infection	with
Pneumothorax	Pneumothorax	Asymptomatic, radiographic findings only	Symptomatic; intervention indicated (e.g., hospitalization for observation, tube placement without sclerosis)	Sclerosis and/or operative intervention indicated	Life-threatening, causing hemodynamic instability (e.g., tension pneumothorax); ventilatory support indicated	Death

				Grade		
Adverse Event	Short Name	1	2	3	4	5
Prolonged chest tube drainage or air leak after pulmonary resection	Chest tube drainage or leak		Sclerosis or additional tube thoracostomy indicated	Operative intervention indicated (e.g., thoracotomy with stapling or sealant application)	Life-threatening; debilitating; organ resection indicated	Death
Prolonged intubation after pulmonary resection (>24 hrs after surgery)	Prolonged intubation	_	Extubated within 24 – 72 hrs postoperatively	Extubated >72 hrs postoperatively, but before tracheostomy indicated	Tracheostomy indicated	Death
NAVIGATION NOTE: Pulmor the VASCULAR CATEG		d as Grade 4 either as	Thrombosis/embolism (vascu	ılar access-related) or Th	rombosis/thrombus/emb	olism in
Pulmonary fibrosis (radiographic changes)	Pulmonary fibrosis	Minimal radiographic findings (or patchy or bibasilar changes) with estimated radiographic proportion of total lung volume that is fibrotic of <25%	Patchy or bi-basilar changes with estimated radiographic proportion of total lung volume that is fibrotic of 25 – <50%	Dense or widespread infiltrates/ consolidation with estimated radiographic proportion of total lung volume that is fibrotic of 50 – <75%	Estimated radiographic proportion of total lung volume that is fibrotic is ~75%; honeycombing	Death
lung tissue. It may be diff ALSO CONSIDER: Adult Re	icult to distinguish from spiratory Distress Synce	pneumonitis that is ge frome (ARDS); Cough;	n or combined modality thera merally seen within 3 months Dyspnea (shortness of breat celect; Infection with normal A	of radiation or combined h); Hypoxia; Infection (do	modality therapy. cumented clinically or	
Vital capacity	Vital capacity	90 – 75% of predicto value	ed <75 – 50% of predicted value	<50 – 25% of predicted value	<25% of predicted value	Death

	PULMONARY/UPPER RESPIRATORY									
Grade										
Adverse Event	Short Name	1	2	3	4	5				
Voice changes/ dysarthria (e.g., hoarseness, loss or alteration in voice, laryngitis)	Voice changes	Mild or intermittent hoarseness or voice change, but fully understandable	Moderate or persistent voice changes, may require occasional repetition but understandable on telephone	Severe voice changes including predominantly whispered speech; may require frequent repetition or face-to- face contact for understandability; requires voice aid (e.g., electrolarynx) for <50% of communication	Disabling; non- understandable voice or aphonic; requires voice aid (e.g., electrolarynx) for >50% of communication or requires >50% written communication	Death				
ALSO CONSIDER: Laryngea	I nerve dysfunction;	Speech impairment (e.g.	, dysphasia or aphasia).							
Pulmonary/Upper Respiratory – Other (Specify,)	Pulmonary – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death				

		<b>RENAL/GEI</b>	NITOURINARY			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Bladder spasms	Bladder spasms	Symptomatic, intervention not indicated	Symptomatic, antispasmodics indicated	Narcotics indicated	Major surgical intervention indicated (e.g., cystectomy)	_
Cystitis	Cystitis	Asymptomatic	Frequency with dysuria; macroscopic hematuria	Transfusion; IV pain medications; bladder irrigation indicated	Catastrophic bleeding; major non- elective intervention indicated	Death
		or microbiologically) with ( unknown ANC – <i>Select;</i> P		ANC <1.0 x 109/L) – Sele	ect; Infection with normal	ANC or
Renal failure	Renal failure	_	_	Chronic dialysis not indicated	Chronic dialysis or renal transplant indicated	Death
ALSO CONSIDER: Glomer	ular filtration rate.	'	1	'	1	Ū.
Urinary frequency/urgency	Urinary frequency	Increase in frequency or nocturia up to 2 x normal; enuresis	Increase > 2 x normal but < hourly	> 1 x/hr: urgency; catheter indicated	-	—
Renal/Genitourinary – Other (Specify,)	Renal – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		SEXUAL/R	EPRODUCTIVE I	FUNCTION						
		Grade								
Adverse Event	Short Name	1	2	3	4	5				
Breast function/lactation	Breast function	Mammary abnormality, not functionally significant	Mammary abnormality, functionally significant		_	_				
Breast nipple/areolar deformity	Nipple/areolar	Limited areolar asymmetry with no change in nipple/areolar projection	Asymmetry of nipple areolar complex with slight deviation in nipple projection	Marked deviation of nipple projection	_	-				
NAVIGATION NOTE: Dysm	nenorrhea is graded a	s Pain – Select in the PAIN CATI	EGORY.	·		L				
NAVIGATION NOTE: Dysp	areunia is graded as l	Pain – Select in the PAIN CATEC	GORY.							
NAVIGATION NOTE: Dysu	ria (painful urination) i	is graded as Pain – Select in the	PAIN CATEGORY.							
Erectile dysfunction	Erectile dysfunction	Decrease in erectile function (frequency rigidity of erections) but erectile aids not indicated	Decrease in erectile function (frequency/ rigidity of erections), erectile aids indicated	Decrease in erectile function (frequency/ rigidity of erections) but erectile aids not helpful; penile prosthesis indicated	_	_				
NAVIGATION NOTE: Femi	nization of male is gra	ided in the ENDOCRINE CATEG	ORY.	I						
Gynecomastia	Gynecomastia	_	Asymptomatic breast enlargement	Symptomatic breast enlargement; intervention indicated	_	-				
ALSO CONSIDER: Pain -	Select					·				
Irregular menses (change from baseline)	Irregular menses	1 – 3 months without menses	>3 – 6 months without menses but continuing menstrual cycles	Persistent amenorrhea for >6 months	_	_				

	SEXUAL/REPRODUCTIVE FUNCTION									
				Grade						
Adverse Event	Short Name	1	2	3	4	5				
NAVIGATION NOTE: Masc	culinization of female is g	graded in the ENDOCRINE	E CATEGORY.							
NAVIGATION NOTE: Pelvi	c pain is graded as Pain	- Select in the PAIN CAT	EGORY.							
NAVIGATION NOTE: UICE	rs of the labia or perineu	m are graded as Ulceratio	n in DERMATOLOGY/SKI	N CATEGORY.						
Vaginal discharge (non-infectious)	Vaginal discharge	Mild	Moderate to heavy; pad use indicated	_	_	_				
Vaginal dryness	Vaginal dryness	Mild	Interfering with sexual function; dyspareunia; intervention indicated	_	_	—				
Vaginal mucositis	Vaginal mucositis	Erythema of the mucosa; minimal symptoms	Patchy ulcerations; moderate symptoms or dyspareunia	Confluent ulcerations; bleeding with trauma; unable to tolerate vaginal exam, sexual intercourse or tampon placement	Tissue necrosis; significant spontaneous bleeding; life- threatening consequences	_				
Sexual/Reproductive Function – Other (Specify,)	Sexual – Other (Specify)	Mild	Moderate	Severe	Disabling	Death				

	SUR	GERY/INTRA-	OPERATIVE II	NJURY		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Intra-operative injury – Select Organ or Structure Select AEs appear at the end of the CATEGORY.	Intraop injury – <i>Select</i>	Primary repair of injured organ/ structure indicated	Partial resection of injured organ/ structure indicated	Complete resection or reconstruction of injured organ/ structure indicated	Life threatening consequences; disabling	_
Intra-operative Injury – Other (Specify,)	Intraop Injury – Other (Specify)	Primary repair of injured organ/ structure indicated	Partial resection of injured organ/ structure indicated	Complete resection or reconstruction of injured organ/structure indicated	Life threatening consequences; disabling	-
	SURGE	RY/INTRA-OP	ERATIVE INJU	JRY—SELECT		
Cardiovascular - Artery - carotid - Artery - hepatic - Artery - major visceral art - Spleen - Vein - hepatic - Vein – inferior vena cava - Vein – jugular - Vein – major visceral vein - Vein – portal vein		Gastrointestinal - Abdomen NOS - Cecum - Colon - Ileum - Jejunum - Small bowel NOS	3	Hepatobiliary/Pancreas - Biliary tree – common - Biliary tree – common - Biliary tree – left hepa - Biliary tree – right hepaton - Biliary tree – NOS - Gallbladder - Liver - Pancreas - Pancreatic duct	n hepatic duct atic duct	

		S	YNDROMES			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Acute	e vascular leak syndror	me is graded in the VA	SCULAR CATEGORY.			
NAVIGATION NOTE: Adrer	nal insufficiency is grac	ded in the ENDOCRINE	E CATEGORY.			
NAVIGATION NOTE: Adult	Respiratory Distress S	Syndrome (ARDS) is gr	aded in the PULMONARY/	UPPER RESPIRATORY CATE	GORY.	
NAVIGATION NOTE: Autoin	mmune reaction is gra	ded as Autoimmune re	action/hypersensitivity (incl	uding drug fever) in the ALLER	GY/IMMUNOLOGY CA	TEGORY.
Cytokine release syndrome/acute infusion reaction	Cytokine release syndrome	Mild reaction; infusion interruption not indicated; intervention not indicated	Requires therapy or infusion interruption but responds promptly to symptomatic treatment (e.g., antihistamines, NSAIDS, narcotics, IV fluids); prophylactic medications indicated for ≤ 24 hrs	Prolonged (i.e., not rapidly responsive to symptomatic medication and/or brief interruption of infusion); recurrence of symptoms following initial improvement; hospitalization indicated for other clinical sequelae (e.g., renal impairment, pulmonary infiltrates)	Life-threatening; pressor or ventilatory support indicated	Death
common to both AEs. A Signs and symptoms us Signs/symptoms may ir (shortness of breath); F Rash/desquamation; Ri welts, wheals); Vomiting ALSO CONSIDER: Allergic	n acute infusion reacti sually develop during c include: Allergic reactio atigue (asthenia, letha igors/chills; Sweating ( g. e reaction/hypersensitiv	ion may occur with an a or shortly after drug infu n/hypersensitivity (inclu irgy, malaise); Headach diaphoresis); Tachycar vity (including drug feve	agent that causes cytokine usion and generally resolve uding drug fever); Arthralgia he; Hypertension; Hypotens dia; Tumor pain (onset or e	ensitive reactions, although son release (e.g., monoclonal antibi completely within 24 hrs of con a (joint pain); Bronchospasm; Co sion; Myalgia (muscle pain); Nar exacerbation of tumor pain due to ng; Dyspnea (shortness of brea rrhythmia – <i>Select</i> .	odies or other biologica ppletion of infusion. ough; Dizziness; Dyspr usea; Pruritus/itching; to treatment); Urticaria	ll agents). lea (hives,
NAVIGATION NOTE: Disse	minated intravascular	coagulation (DIC) is gr	aded in the COAGULATIO	N CATEGORY.		

	SYNDROMES										
	Grade										
Adverse Event	Short Name	1	2	3	4	5					
Flu-like syndrome	Flu-like syndrome	Symptoms present but not interfering with function	Moderate or causing difficulty performing some ADL	Severe symptoms interfering with ADL	Disabling	Death					
			which may include cough wit consistent with one single p	h catarrhal symptoms, fever athophysiological process.	, headache, malaise, r	nyalgia,					
NAVIGATION NOTE: SIAD	H is graded as Neuroe	ndocrine: ADH secretion	on abnormality (e.g., SIADH	l or low ADH) in the ENDOC	RINE CATEGORY.						
NAVIGATION NOTE: Steve DERMATOLOGY/SKIN		is graded as Rash: er	ythema multiforme (e.g., Ste	evens-Johnson syndrome, to	oxic epidermal necrolys	sis) in the					
NAVIGATION NOTE: Thror syndrome [HUS]) in CC			otic microangiopathy (e.g., t	hrombotic thrombocytopenic	purpura [TTP] or hem	olytic uremic					
Syndromes – Other (Specify,)	Syndromes – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death					

		VA	ASCULAR						
		Grade							
Adverse Event	Short Name	1	2	3	4	5			
Acute vascular leak syndrome	Acute vascular leak syndrome	_	Symptomatic, fluid support not indicated	Respiratory compromise or fluids indicated	Life-threatening; pressor support or ventilatory support indicated	Death			
Peripheral arterial ischemia	Peripheral arterial ischemia	_	Brief (<24 hrs) episode of ischemia managed non- surgically and without permanent deficit	Recurring or prolonged (≥ 24 hrs) and/or invasive intervention indicated	Life-threatening, disabling and/or associated with end organ damage (e.g., limb loss)	Death			
Phlebitis (including superficial thrombosis)	Phlebitis	_	Present	_	_	_			
ALSO CONSIDER: Injection	n site reaction/extravasation	changes.							
Portal vein flow	Portal flow	_	Decreased portal vein flow	Reversal/retrograde portal vein flow	_	_			
Thrombosis/embolism (vascular access- related)	Thrombosis/embolism (vascular access)	_	Deep vein thrombosis or cardiac thrombosis; intervention (e.g., anticoagulation, lysis, filter, invasive procedure) not indicated	Deep vein thrombosis or cardiac thrombosis; intervention (e.g., anticoagulation, lysis, filter, invasive procedure) indicated	Embolic event including pulmonary embolism or life-threatening thrombus	Death			
Thrombosis/thrombus/ embolism	Thrombosis/thrombus/ embolism	_	Deep vein thrombosis or cardiac thrombosis; intervention (e.g., anticoagulation, lysis, filter, invasive procedure) not indicated	Deep vein thrombosis or cardiac thrombosis; intervention (e.g., anticoagulation, lysis, filter, invasive procedure) indicated	Embolic event including pulmonary embolism or life-threatening thrombus	Death			

		V	ASCULAR					
		Grade						
Adverse Event	Short Name	1	2	3	4	5		
Vessel injury-artery – <i>Select:</i> – Aorta – Carotid – Extremity-lower – Extremity-upper – Other NOS – Visceral	Artery injury – <i>Select</i>	Asymptomatic diagnostic finding; intervention not indicated	Symptomatic (e.g., claudication); not interfering with ADL; repair or revision not indicated	Symptomatic interfering with ADL; repair or revision indicated	Life-threatening; disabling; evidence of end organ damage (e.g., stroke, MI, organ or limb loss)	Death		
NAVIGATION NOTE: Ves OPERATIVE INJURY		-operatively is graded	as Intra-operative injury – S	Select Organ or Structure	in the SURGERY/INTRA-			
Vessel injury-vein – <i>Select:</i> – Extremity-lower – Extremity-upper – IVC – Jugular – Other NOS – SVC – Viscera	Vein injury – <i>Select</i>	Asymptomatic diagnostic finding; intervention not indicated	Symptomatic (e.g., claudication); not interfering with ADL; repair or revision not indicated	Symptomatic interfering with ADL; repair or revision indicated	Life-threatening; disabling; evidence of end organ damage	Death		
NAVIGATION NOTE: Ves NJURY CATEGORY.		peratively is graded as	Intra-operative injury – Sele	ect Organ or Structure in	the SURGERY/INTRA-OF	PERATIVE		
Visceral arterial schemia (non-myocardial) ALSO CONSIDER: CNS co	Visceral arterial ischemia erebrovascular ischemia	_	Brief (<24 hrs) episode of ischemia managed medically and without permanent deficit	Prolonged (≥ 24 hrs) or recurring symptoms and/or invasive intervention indicated	Life-threatening; disabling; evidence of end organ damage	Death		
Vascular – Other (Specify,)	Vascular – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death		