# Terminology Criteria for Adverse Events

(TCAE)

In Trials of Adult Pancreatic Islet Transplantation

Version 4.0 (2 May 2007)

## Terminology Criteria for Adverse Events (TCAE)

### In Trials of Adult Pancreatic Islet Transplantation Version 4.0 (2 May 2007)

#### **Quick Reference**

The CIT Terminology Criteria for Adverse Events V2.0 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

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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 v3.0 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

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 v3.0 term associated with Grade 5, or
- cannot be reported within a TCAE CATEGORY as 'Other (Specify)'

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

		ALLERGY	//IMMUNOLOGY	<b>/</b>		
				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
	nanifestations of allergic o e release syndrome/acute	•	is graded as Allergic rea	ction/hypersensitivity (inc	eluding drug fever).	
Allergic rhinitis (including sneezing, nasal stuffiness, postnasal drip)	Rhinitis	Mild, intervention not indicated	Moderate, intervention indicated	_	_	_
REMARK: Rhinitis associ	ated with obstruction or	stenosis is graded as Ob	ostruction/stenosis of airv	vay – <i>Select</i> in the PULI	MONARY/UPPER RES	PIRATORY
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; I	ा Hemoglobin; Hemolysis (६	e.g., immune hemolytic ar	' nemia, drug-related hemo	। lysis); Thyroid function, lo	ow (hypothyroidism).	ı

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	ALLERGY/IMMUNOLOGY									
				Grade						
Adverse Event	Short Name	1	2	3	4	5				
Serum sickness	Serum sickness	_	_	Present	Life-threatening	Death				
NAVIGATION NOTE: Urtical	ria as an isolated syr	nptom is graded as Urt	icaria (hives, welts, wh	eals) in the DERMA	TOLOGY/SKIN CATEGOR	Y				
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 comb	ined with bone marrow	infusions	•	•					
Sensitization	Sensitization	_	PRA > 20%	_	_	_				
Rемакк: Post allogeneic	Remark: Post allogeneic transplant									
Allergy/Immunology – Other (Specify,)	Allergy – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death				

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		AUDI	TORY/EAR			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Earach	ne (otalgia) is graded as F	Pain – Select 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		to those for adults, unless sidered to be <5 dB loss.	s specified. For children a	and adolescents (<18 year	rs of age) without a bas	eline 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		to those for adults, unless sidered to be <5 dB loss.	s specified. For children a	ind adolescents (<18 year	rs of age) without a bas	eline test,

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		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 p		eline 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: patients with/without baseline audiogram and enrolled in a monitoring program <sup>1</sup> ; Hearing: patients without baseline audiogram and not enrolled in a monitoring program <sup>1</sup>							
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. 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:

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

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		BLOOD	)/BONE MARRO	N				
Grade								
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 – ≤ 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		
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		

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	BLOOD/BONE MARROW								
				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			

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		CARDIAC A	RRHYTHMIA				
		Grade					
Adverse Event	Short Name	1	2	3	4	5	
Conduction abnormality/ atrioventricular heart block  - Select: - Asystole - AV Block-First degree - AV Block-Second degree Mobitz Type I (Wenckebach) - 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 o	nly in the absence of a docume	ented arrhythmia.	'		'	Į.	
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	

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		CARDIAC	ARRHYTHI	MIA				
			Grade					
Adverse Event	Short Name	1	2	3	4	5		
Supraventricular and nodal arrhythmia – Select:	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>Supraventricular tac</li> </ul>	trasystoles (Premature Atria chycardia			,				
Vasovagal episode	Vasovagal episode			Present with loss of	Life-threatening	Death		
			loss of consciousness	consciousness	consequences			
Ventricular arrhythmia – Select:  - Bigeminy - Idioventricular rhythm - PVCs - Torsade de pointes - Trigeminy - Ventricular arrhythmia NOS - Ventricular fibrillation - Ventricular flutter - Ventricular tachycardia		Asymptomatic, no intervention indicated	Non-urgent medical 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		

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		CARD	IAC GENERAI	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) is the only appropriate grade. TCAE provides three alternatives for reporting Death:

1. A TCAE term associated with Grade 5.

2. A TCAE 'Other (Specify, \_\_)' within any CATEGORY.

Death not associated with TCAE term – Select in the DEATH CATEGORY.

NAVIGATION NOTE: Chest pain (non-cardiac and non-pleuritic) is graded as Pain – Select in the PAIN CATEGORY.

NAVIGATION NOTE: CNS ischemia is graded as CNS cerebrovascular ischemia in the NEUROLOGY CATEGORY.

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		CAR	DIAC GENERAI	L .				
				Grade				
Adverse Event	Short Name	1	2	3	4	5		
Hypertension  REMARK: Use age and g	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		
		•				5 "		
Hypotension  Hypotension  ALSO CONSIDER: Syncope (fainting).		Changes, intervention not indicated	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		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		

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		CAR	DIAC GENERAL	L		
				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 CARDIA	C GENERAL CATEGORY	Υ.	
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.			1
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

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	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				

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		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	reased 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 laborato</td><td>ry value).</td><td></td><td></td><td></td></l<>	_LN (local laborato	ry 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	rrhage, GU – <i>Select;</i> F	lemorrhage, pulmonary/u	upper respiratory – <i>Select.</i>	l
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					upper respiratory – Select.	
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			schistocytes, helmet o	cells, red cell fragments).	1	ı
ALSO CONSIDER: Creatinine; He	emoglobin; Platelets.					
Coagulation – Other (Specify,)	Coagulation – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

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		CONSTITUTIO	NAL SYMPTON	<b>IS</b>				
		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		• •						
NAVIGATION NOTE: Hot flashes	are graded as Ho	flashes/flushes in the EN	DOCRINE CATEGORY.					
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	insomnia. Grade primary	event(s) causing insomnia	a.			
Rigors/chills	Rigors/chills	Mild	Moderate, narcotics indicated	Severe or prolonged, not responsive to narcotics	_	_		

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	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, depending 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,)	Constitutional Symptoms – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death				

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DEATH							
		Grade					
Adverse Event	Short Name	1	2	3	4	5	
Death not associated with TCAE term – Select:	Death not associated with TCAE term – Select	_	_	_	_	Death	

- Death NOS
- Disease progression NOSMulti-organ failure
- Sudden death

REMARK: Grade 5 is the only appropriate grade. 'Death not associated with TCAE term – *Select'* is to be used where a death:
1. Cannot be attributed to a TCAE term associated with Grade 5.
2. Cannot be reported within any CATEGORY using a TCAE 'Other (Specify, \_\_)'.

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		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: Indurate	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 REMARK: Burn refers to	Burn all burns including radiati	Minimal symptoms; intervention not indicated	Medical intervention; minimal debridement indicated	Moderate to major debridement or reconstruction indicated	Life-threatening consequences	Death
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	_	_	_

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		DERMA	TOLOGY/SKIN				
Grade							
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 connective tissue.	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	liceration.				
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	chiae is graded as Petechi	iae/purpura (hemorrhage	e/bleeding into skin or mucosa) i	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 lesquamation	Mild or localized	Intense or widespread	Intense or widespread and interfering with ADL	_	_	
Rash/desquamation  REMARK: Rash/desquam	Rash nation may be used for GV	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% of body surface area (BSA)	Severe, generalized erythroderma or macular, papular or vesicular eruption; desquamation covering ≥ 50% BSA	Generalized exfoliative, ulcerative, or bullous dermatitis	Death	

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		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  - Select:  - Chemoradiation  - Radiation	Dermatitis – Select	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.	vn/decubitus ulcer is	to be used for loss of s	skin integrity or decubitus ul	cer from pressure or as the re	esult of operative or medica	ıl				
Striae	Striae	Mild	Cosmetically significant	_	_	_				

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		DERI	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)	Urticaria	Intervention not indicated	Intervention indicated for <24 hrs	Intervention indicated for ≥ 24 hrs	_	_		
ALSO CONSIDER: Aller	gic reaction/hypersens	itivity (including drug fe	ever).					
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 sepa	aration of incision, hernia, d	ehiscence, evisceration, or	second surgery for wound rev	vision.		
Dermatology/Skin – Other (Specify,)	Dermatology – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death		

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	ENDOCRINE									
				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 I frequently accompa	aving, syncope (fainting), anied by low aldosterone	vitiligo, vomiting, weaki ).							
ALSO CONSIDER: Potassium, se	erum-high (hyperkale	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-l	ow (hypokalemia).	'	'	<u>'</u>				
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	_	_				

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			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

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	GASTR	OINTESTINAL							
Grade									
Short Name	1	2	3	4	5				
minal pain or cramping is	s graded as Pain – <i>Select</i> i	n the PAIN CATEGORY.							
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				
loss.	•								
Ascites	Asymptomatic	Symptomatic, medical intervention indicated	Symptomatic, invasive procedure indicated	Life-threatening consequences	Death				
। alignant) refers to docur	। mented non-malignant asci	। tes or unknown etiology, t	ı out unlikely malignant, an	। d includes chylous asci	ites.				
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				
hage, GI – <i>Select</i> .	•	•	•	<b>!</b>	ı				
Constipation	_	_	Symptoms interfering with ADL; obstipation with manual evacuation indicated	Life-threatening consequences (e.g., obstruction, toxic megacolon)	Death				
	Anorexia  Anorexia  Ascites  alignant) refers to docur  Colitis  hage, GI – Select.	Short Name  Iminal pain or cramping is graded as Pain – Select in Loss of appetite without alteration in eating habits  Iloss.  Ascites  Asymptomatic  Asymptomatic, pathologic or radiographic findings only  Indicate the pain of the pa	Anorexia  Loss of appetite without alteration in eating habits  Loss of appetite without significant weight loss or malnutrition; oral nutritional supplements indicated  Ascites  Ascites  Asymptomatic  Symptomatic, medical intervention indicated  Colitis  Asymptomatic, pathologic or radiographic findings only  Asge, GI – Select.	Short Name  1 2 3  Ininal pain or cramping is graded as Pain – Select in the PAIN CATEGORY.    Anorexia	Short Name  1 2 3 4  Ininal pain or cramping is graded as Pain – Select in the PAIN CATEGORY.    Anorexia				

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		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	teonecrosis is graded as	Osteonecrosis (avascula	r necrosis) in the MUSCU	ILOSKELETAL 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	_	_

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	GASTROINTESTINAL										
	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 includes diarrhea of small bowel or colonic origin, and/or ostomy diarrhea.  ALSO CONSIDER: Dehydration; Hypotension.										
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	stipation); 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	_	_					

Remark: Dry mouth/salivary gland (xerostomia) includes descriptions of grade using both subjective and objective assessment parameters. Record this event consistently throughout a patient's participation on study. If salivary flow measurements are used for initial assessment, subsequent assessments must use salivary flow.

ALSO CONSIDER: Salivary gland changes/saliva.

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		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/s 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	SI – S <i>elect</i> , Typhliti	s (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		1	1	ı	1	I

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	GASTROINTESTINAL								
Grade									
Adverse Event	Short Name	1	2	3	4	5			
Fistula, GI – Select.  – Abdomen NOS  – Anus  – Biliary tree  – Colon/cecum/appendix  – Duodenum  – Esophagus  – Gallbladder  – Ileum  – Jejunum  – Oral cavity  – Pancreas  – Pharynx  – Rectum  – Salivary gland  – Small bowel NOS  – Stomach	Fistula, GI – Select	Asymptomatic, radiographic findings only	Symptomatic; altered GI function (e.g., altered dietary habits, diarrhea, or GI fluid loss); 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	Life-threatening consequences	Death			

REMARK: A fistula is defined as an abnormal communication between two body cavities, potential spaces, and/or the skin. The site indicated for a fistula should be the site from which the abnormal process is believed to have originated. For example, a tracheo-esophageal fistula arising in the context of a resected or irradiated esophageal cancer is graded as Fistula, GI – esophagus.

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, GI – Select, Ulcer, GI – Select.

NAVIGATION NOTE: Head and neck soft tissue necrosis is graded as Soft tissue necrosis – Select in the MUSCULOSKELETAL/SOFT TISSUE CATEGORY.

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	GASTROINTESTINAL									
				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				
lleus, 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 u ALSO CONSIDER: Constipati	• • •	•	g., delayed gastric or colonions. g.	c emptying).						
Incontinence, anal	Incontinence, anal	Occasional use of pads required	Daily use of pads required	Interfering with ADL; operative intervention indicated	Permanent bowel diversion indicated	Death				
REMARK: Incontinence, and	al is to be used for loss	of sphincter control as	sequelae of operative or the	erapeutic intervention.	I	ı				
Leak (including anastomotic), GI – Select:  - Biliary tree  - Esophagus  - Large bowel  - Leak NOS  - Pancreas  - Pharynx  - Rectum  - Small bowel  - Stoma  - Stomach	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				

REMARK: Leak (including anasomotic), GI – *Select* is to be used for clinical signs/symptoms or radiographic confirmation of anastomotic or conduit leak (e.g., biliary, esophageal, intestinal, pancreatic, pharyngeal, rectal), but without development of fistula.

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		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) – Select	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) - Select: - Anus - Esophagus - Large bowel - Larynx - Oral cavity - Pharynx - Rectum - Small bowel - Stomach - Trachea	Mucositis (functional/ symptomatic) – Select	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		

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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 – Select			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		

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	GASTROINTESTINAL								
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 – Select	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: Operative injury is graded as Intra-operative injury – *Select Organ or Structure* in the SURGERY/INTRA-OPERATIVE INJURY CATEGORY. NAVIGATION NOTE: Pelvic pain is graded as Pain – *Select* in the PAIN CATEGORY.

Perforation, GI  - Select:  - Appendix  - Biliary tree  - Cecum  - Colon  - Duodenum  - Esophagus  - Gallbladder  - Ileum  - Jejunum  - Rectum  - Small bowel NOS  - Stomach	Perforation, GI – 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

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GASTROINTESTINAL								
		Grade						
Adverse Event	Short Name	1	2	3	4	5		
NAVIGATION NOTE: Rectal	or perirectal pain (proctalg	ia) 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 (xeroston	nia); Mucositis/stomatiti	s (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  – Stomach	Stricture, GI – Select	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	_	_	_		

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		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	; Ileus, GI (functional obs	truction of bowel, i.e., neu	roconstipation).			
Ulcer, GI – Select:  - 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	
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	

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		GROWTH AN	ND DEVELOPME	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 tes	sticular size for Tanner St	age in male cancer sur	vivors.				

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	GROWTH AND DEVELOPMENT									
				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 hormo									
Growth and Development – Other (Specify,)	Growth and Development – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death				

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		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	Opacification of chest x-ray accompanied by decrease in hemoglobin	_	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			

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		HEMORRHA	GE/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 – Select		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 State Site:	Hemorrhage, GU – Select	_	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

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		HEPATOBILIA	ARY/PANCREAS	S		
				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
				c), GI – <i>Select;</i> Necrosis, G ROINTESTINAL CATEGO		GI –
Cholecystitis	Cholecystitis	Asymptomatic, radiographic findings only	Symptomatic, medical intervention indicated	Interventional radiology, endoscopic, or operative intervention indicated	Life-threatening consequences (e.g., sepsis or perforation)	Death
	n (documented clinically of fection with unknown ANC		Grade 3 or 4 neutrophils -	- Select; Infection with nor	mal ANC or Grade 1 or 2	2
Hepatic steatosis (change from pre-islet transfusion baseline)	Steatosis	_	Mild or moderate steatosis	Severe steatosis	Non-alcoholic steatohepatitis (NASH)	Death
Liver dysfunction/ failure (clinical)	Liver dysfunction	_	Jaundice	Asterixis	Encephalopathy or coma	Death

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		HEPATOBII	LIARY/PANCRE	AS				
			Grade					
Adverse Event	Short Name	1	2	3	4	5		
Liver dysfunction/ failure within 2 weeks of islet infusion (laboratory values)	Elevated LFTs	_	Transaminitis (AST or ALT elevated, but ≤ 2x normal)	Transaminitis (AST or ALT elevated, but > 2x normal)	Evidence of fulminant hepatic failure, with INR ≥ 2.5, and AST/ALT ≥ 2 x normal	Death		
REMARK: Jaundice is no dysfunction/failure or ele ALSO CONSIDER: Bilirubir	evated bilirubin.	n the liver is not working	g properly or when a bile	duct is blocked. It is graded	d as a result of liver			
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 findings	Symptomatic, medical intervention indicated	Interventional radiology or operative intervention indicated	Life-threatening consequences (e.g., circulatory failure, hemorrhage, sepsis)	Death		
ALSO CONSIDER: Amylas	e. 	illidings			nemornage, 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: Stricts CATEGORY.	ure (biliary tree, hepatic	or pancreatic) is graded	d as Stricture/stenosis (inc	cluding anastomotic), GI –	Select in the GASTROINTE	STINAL		
Hepatobiliary/ Pancreas – Other (Specify,)	Hepatobiliary – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death		

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		INFE	CTION				
				Grade			
Adverse Event	Short Name	1	2	3	4	5	
Colitis, infectious (e.g., Clostridium difficile)  ALSO CONSIDER: Hemorrhage	Colitis, infectious e, 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/	granulocytes (ANC//	AGC).					
Infection (documented clinically or microbiologically) with Grade 3 or 4 neutrophils (ANC <1.0 x 10 <sup>9</sup> /L) – Select 'Select' AEs appear at the	Infection (documented clinically) – Select	_	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 or microbiologically documer ALSO CONSIDER: Neutrophils/	ited 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 – Select	_	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	

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	INFECTION									
				Grade						
Adverse Event	Short Name	1	2	3	4	5				
Infection with unknown ANC – Select 'Select' AEs appear at the end of the CATEGORY.	Infection with unknown ANC – Select	_	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 unknown	own ANC – Select is	to be used in the rare	case when ANC is unknown	own.						
Opportunistic infection associated with Grade 2 lymphopenia  ALSO CONSIDER: Lymphopen	Opportunistic infection	_	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 (hypoalbum	nemia); ALT, SGPT (	serum glutamic pyruvic tra	ansaminase); AST, SGOT (se	erum glutamic oxaloacetic	·				
Infection – Other (Specify,)	Infection – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death				

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# **INFECTION - SELECT**

### **CARDIOVASCULAR**

- Artery
- Heart (endocarditis)
- SpleenVein

#### **DERMATOLOGY/SKIN**

- Lip/perioral mucus, ulcer
- Peristomal
- Ungual (nails)

#### **GASTROINTESTINAL**

- Abdomen NOS
- Anal/perianal
- Appendix
- Cecum
- Colon
- Dental-tooth
- Esophagus
- lleum
- 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

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		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	•	polymphedema 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

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		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			

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	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			

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	METABOLIC/LABORATORY								
				Grade					
Adverse Event	Short Name	1	2	3	4	5			
Acidosis (metabolic or respiratory)	Acidosis	_	_	pH <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			
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	_			
Alkalosis (metabolic or respiratory)	Alkalosis	pH >normal, but ≤ 7.5	_	pH >7.5	pH >7.5 with life- threatening consequences	Death			
Note: For elevations in ALT, grades.	AST, and GGT that o	ccur within 2 weeks of the	he islet infusion procedur	e, report grade 3, 4 and	d 5 only; at any other time,	report all			
ALT, SGPT and/or AST, SGOT (serum glutamic pyruvic transaminase and/or serum glutamic oxaloacetic transaminase) UNRELATED TO PROCEDURE (LFTs should return to baseline within 4 weeks of islet transplant)	ALT/AST (NPR)	>ULN – 1.5 x ULN	>1.5 – 2.0 x ULN	>2.0- 5.0 x ULN	Evidence of fulminant hepatic failure, with INR ≥ 2.5 and AST/ALT ≥ 5.0 x ULN	Death			
Amylase	Amylase	>ULN – 1.5 x ULN	>1.5 – 2.0 x ULN	>2.0 – 5.0 x ULN	>5.0 x ULN	_			

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	METABOLIC/LABORATORY									
				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				
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 dysfun	ction/failure or elevated b	ilirubin. If jaundice is asso	ociated with elevated b	lirubin,				
Calcium, serum-low (hypocalcemia)	Hypocalcemia	<lln 8.0="" dl<br="" mg="" –=""><lln 2.0="" l<br="" mmol="" –="">lonized 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				
REMARK: Calcium can be calculation has been performed calcium is the definitive n	ormed: Corrected Calci	um (mg/dĹ) = Total Calciu	um (mg/dL) – 0.8 [Albumii							
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 medication for treatment AND change from pre- transplant baseline	_	_				

<sup>&</sup>lt;sup>4</sup>Crit Rev Clin Lab Sci 1984;21(1):51-97

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		METABOL	IC/LABORATOR	RY		
			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  REMARK: Adjust to age-al ALSO CONSIDER: Glomeru		— diatric patients.	_	>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
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	_
Measured glomerular filtration rate	GFR	_	< 75% LLN	< 50% LLN or requiring medication dose reduction/ weaning	Progressive deterioration, chronic dialysis or renal transplant	Death
ALSO CONSIDER: Creatining	ne.				indicated	
Glucose, serum-high (hyperglycemia)	See Ketoacidosis in I	ENDOCRINE Section				
Glucose, serum-low (hypoglycemia)	See Hypoglycemic E	vent in ENDOCRINE Sec	etion			
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
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

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		METABOL	IC/LABORATOR	Y					
				Grade					
Adverse Event	Short Name	1	2	3	4	5			
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			
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			
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			
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			
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			
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: Creatining	ALSO CONSIDER: Creatinine; Potassium, serum-high (hyperkalemia); Renal failure; Tumor lysis syndrome.								
Metabolic/Laboratory – Other (Specify,)	Metabolic/Lab – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death			

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		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				
		thritis (e.g., inflammation of a			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 require	d for reversing a car; 60 – 6	5 degrees of flexion is rec	quired to tie shoes.						
Exostosis	Exostosis	Asymptomatic	Involving multiple sites; pain or interfering with function	Excision indicated	Progression to malignancy (i.e., chondrosarcoma)	Death				

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	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) – <i>Select.</i>						
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				

ALSO CONSIDER: Induration/fibrosis (skin and subcutaneous tissue); Muscle weakness, generalized or specific area (not due to neuropathy) – *Select*; Neuropathy: motor; Neuropathy: sensory.

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	I	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: Arthriti	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: Arthriti	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

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	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-upper  - Facial  - Left-sided  - Ocular  - Pelvic  - Right-sided  - Trunk  - Whole body/generalized	Muscle weakness  – Select  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	_

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	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 mus 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

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	MUSCULOSKELETAL/SOFT TISSUE										
		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  – Select	_	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-infed	ctious is graded as Infe	ection – Select in the IN	IFECTION CATEGORY.			1					
NAVIGATION NOTE: Wound non-	infectious is graded as	Wound complication,	non-infectious in the DERN	MATOLOGY/SKIN CATEGO	PRY.						
Musculoskeletal/Soft Tissue – Other (Specify,)	Musculoskeletal – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death					

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	NEUROLOGY										
Grade											
Adverse Event	Short Name	1	2	3	4	5					
NAVIGATION NOTE: ADD (A	Attention Deficit Disorde	r) is graded as Cognitive	disturbance.								
NAVIGATION NOTE: Aphasi	ia, 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	phils (ANC <1.0 x 10 <sup>9</sup> /L)	penia, where neutropenia - Select; 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> Ir	ented clinically or microbing fection with unknown AN	ologically) NC –					
Ataxia (incoordination)	Ataxia	Asymptomatic	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL; mechanical assistance indicated	Disabling	Death					
REMARK: Ataxia (incoordii	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					

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		NEU	ROLOGY			
			G	rade		
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	or 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 gr	ded as Cognitive disturbar	nce. (ADD) is graded as Cog	nitive disturbance.	ı	
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		ntheadedness, and vertigo. Syncope (fainting).	'	ı		
NAVIGATION NOTE: Dyspha	asia, receptive and/or	expressive, is graded as S	peech 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
ALSO CONSIDER: Cognitive somnolence/depressed le			pairment; Mental status; Mood	d alteration – <i>Select;</i> P	sychosis (hallucinations/o	delusions

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		NEURO	LOGY			
			Gr	ade		
Adverse Event	Short Name	1	2	3	4	5
Extrapyramidal/ nvoluntary movement/ restlessness	Involuntary movement	_	_	Severe involuntary	Disabling	_
NAVIGATION NOTE: Heada as Pain – Select in the PA		jaw pain, neurologic pain	, phantom limb pain, post-infe	ctious neuralgia, or pain	ful neuropathies) is	s 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 math thare areas that become vo		NOT associated with necrosis	. Leukoencephalopathy	(radiographic findi	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

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NEUROLOGY								
Grade								
Adverse Event	Short Name	1	2	3	4	5		
Neuropathy: cranial – Select:	Neuropathy: cranial  – Select	Asymptomatic, detected on exam/testing only	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL	Life-threatening; disabling	Death		

- CN I Smell
- CN II Vision
- CN III Pupil, upper eyelid, extra ocular movements
  CN IV Downward, inward movement of eye
  CN V Motor-jaw muscles; Sensory-facial
  CN VI Lateral deviation of eye

- CN VII Motor-face; Sensory-tasteCN VIII Hearing and balance
- CN IX Motor-pharynx; Sensory-ear, pharynx, tongue
   CN X Motor-palate; pharynx, larynx
- CN XI Motor-sternomastoid and trapezius
- CN XII Motor-tongue

REMARK: Cranial nerve sensory neuropathy is graded as Neuropathy: cranial – Select.

Personality/behavioral	Personality	Change, but not adversely affecting patient 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

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		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
	erebrovascular ischemia; isode; Ventricular arrhythr		ty/atrioventricular heart block	x – Select; Dizziness; Sup	raventricular and nodal a	arrhythmia
NAVIGATION NOTE: Taste	alteration (CN VII, IX) is	graded as Taste altera	ation (dysgeusia) in the GAS	TROINTESTINAL CATEG	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

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		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 – Select; 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 surface	ce disease includes conju	nctivitis, keratoconjunctivit	is sicca, chemosis, keratiniza	tion, and palpebral conjunc	tival epithelial met	aplasia.			
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	ppathy: cranial – Select.								
Optic disc edema  ALSO CONSIDER: Neuro	Optic disc edema  opathy: cranial – Select.	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	_	_			

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		OC	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	_

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		OCUL	AR/VISUAL			
			Gr	ade		
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

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		F	PAIN			
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Pain  - Select:  'Select' AEs appear at the end of the CATEGORY.	Pain – Select	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	_
		PAII	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	- LN - M - - - - NI - O	EPATOBILIARY/PAN Gallbladder Liver /MPHATIC Lymph node USCULOSKELETAL Back Bone Buttock Extremity-limb Intestine Joint Muscle Neck Phantom (pain assoc EUROLOGY Head/headache Neuralgia/peripheral CULAR Eye ULMONARY/UPPER Chest wall	ciated with missing limb)	PULMONARY/UPPER  - Larynx  - Pleura  - Sinus  - Throat/pharynx/laryn RENAL/GENITOURIN  - Bladder  - Kidney SEXUAL/REPRODUC  - Breast  - Ovulatory  - Pelvis  - Penis  - Perineum  - Prostate  - Scrotum  - Testicle  - Urethra  - Uterus  - Vagina	nx NARY	

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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: Dyspr	nea (shortness of brea	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 CONSIDED: Infact	ion (documented clini	findings	antibiotics, suction or oxygen)	(ANC <1.0 × 1.0 <sup>9</sup> /l.) _ Sel	ect: Infection with normal	ANC or			
ALSO CONSIDER: Infecti Grade 1 or 2 neutroph infiltrates. Atelectasis	ion (documented clininils – <i>Select;</i> Infection	cally or microbiologically	oxygen)  y) with Grade 3 or 4 neutrophils (elect; Laryngeal nerve dysfunction  Symptomatic (e.g., dyspnea, cough), medical	Operative (e.g., stent, laser) intervention	Select; Pneumonitis/pulm  Life-threatening respiratory	ANC or nonary			
Grade 1 or 2 neutroph infiltrates.	nils – Select; Infection	cally or microbiologically with unknown ANC – S	oxygen)  y) with Grade 3 or 4 neutrophils (elect; Laryngeal nerve dysfunction  Symptomatic (e.g.,	on; Neuropathy: cranial – Operative (e.g., stent,	Select; Pneumonitis/pulm	nonary			
Grade 1 or 2 neutroph infiltrates.  Atelectasis  ALSO CONSIDER: Adult microbiologically) with	Atelectasis  Respiratory Distress Grade 3 or 4 neutrop	cally or microbiologically with unknown ANC – S  Asymptomatic  Syndrome (ARDS); Couphils (ANC <1.0 x 109/L)	oxygen)  y) with Grade 3 or 4 neutrophils (elect; Laryngeal nerve dysfunction)  Symptomatic (e.g., dyspnea, cough), medical intervention indicated (e.g., bronchoscopic suctioning, chest physiotherapy,	Operative (e.g., stent, laser) intervention indicated  th); Hypoxia; Infection (do ANC or Grade 1 or 2 neutons)	Life-threatening respiratory compromise	Death			

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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	ı; Pneumonitis/pulmon	ary infiltrates; Pulmonary	y 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; I	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 r	eaction/hypersensitivit	ty (including drug fever).	T		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	

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	PULMONARY/UPPER RESPIRATORY								
			Grade						
Adverse Event	Short Name	1	2	3	4	5			
Fistula, pulmonary/upper respiratory  - Select:  - Bronchus  - Larynx  - Lung  - Oral cavity  - Pharynx  - Pleura  - Trachea	Fistula, pulmonary – Select	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			

Remark: A fistula is defined as an abnormal communication between two body cavities, potential spaces, and/or the skin. The site indicated for a fistula should be the site from which the abnormal process is believed to have arisen. For example, a tracheo-esophageal fistula arising in the context of a resected or irradiated esophageal cancer should be graded as Fistula, GI – esophagus in the GASTROINTESTINAL CATEGORY.

Hiccoughs (hiccups, singultus)	Hiccoughs	Symptomatic, intervention not indicated	Symptomatic, intervention indicated	Symptomatic, significantly interfering with sleep or ADL	_	
Нурохіа	Нурохіа	_	Decreased O <sub>2</sub> saturation with exercise (e.g., pulse oximeter <88%); intermittent supplemental oxygen	Decreased O <sub>2</sub> saturation at rest; continuous oxygen indicated	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 ADL	Necrosis of soft tissue or bone	Death

ALSO CONSIDER: Infection (documented clinically or microbiologically) with Grade 3 or 4 neutrophils (ANC <1.0 x  $10^9$ /L) – Select; Infection with normal ANC or Grade 1 or 2 neutrophils – Select; Infection with unknown ANC – Select.

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		PULMONARY/U	IPPER RESPIRAT	ORY		
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Obstruction/stenosis of airway  – Select:  – Bronchus  – Larynx  – Pharynx  – Trachea	Airway obstruction – Select	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			poxia; Pneumonitis/pulmona	ry infiltrates; Pulmonary fi	brosis (radiographic cha	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) – S	Dyspnea (shortness of breat elect; Infection with normal A fibrosis (radiographic change	NC or Grade 1 or 2 neutr	cumented clinically or ophils – Select; 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

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	PI	ULMONARY/U	PPER RESPIRAT	ORY		
				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 CATEGO		d as Grade 4 either as T	hrombosis/embolism (vascu	ılar access-related) or Th	rombosis/thrombus/embo	olism in
Pulmonary fibrosis (radiographic changes)	Pulmonary fibrosis		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	ficult to distinguish from espiratory Distress Synd	pneumonitis that is gen rome (ARDS); Cough; [	or combined modality thera erally seen within 3 months Dyspnea (shortness of breat elect; Infection with normal Al	of radiation or combined of h); Hypoxia; Infection (do	modality therapy. cumented clinically or	
Vital capacity	Vital capacity	90 – 75% of predicted value	d <75 – 50% of predicted value	<50 – 25% of predicted value	<25% of predicted value	Death

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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: Laryngeal nerve dysfunction; Speech impairment (e.g., dysphasia or aphasia).								
Pulmonary/Upper Respiratory – Other (Specify,)	Pulmonary – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death		

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		RENAL/GEI	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 – Select; F		(ANC <1.0 x 109/L) – Sel	ect; Infection with normal	ANC or
Renal failure	Renal failure	_	_	Chronic dialysis not indicated	Chronic dialysis or renal transplant indicated	Death
ALSO CONSIDER: Glome	rular filtration rate.	'	ı	1	I	ı
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

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		SEXUAL/R	EPRODUCTIVE I	FUNCTION		
			Gra	de		
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 as	Pain – Select in the PAIN CATE	EGORY.			
NAVIGATION NOTE: Dysp	areunia is graded as P	ain – Select in the PAIN CATEG	GORY.			
Navigation Note: Dysu	ria (painful urination) 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 grad	led in the ENDOCRINE CATEG	ORY.		1	
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	_	_

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	SEXUAL/REPRODUCTIVE FUNCTION								
	Grade								
Adverse Event	Short Name	1	2	3	4	5			
Navigation Note: Maso	culinization of female is o	graded in the ENDOCRIN	E CATEGORY.						
Navigation Note: Pelvi	c pain is graded as Pain	– Select in the PAIN CA	TEGORY.						
NAVIGATION NOTE: Ulcei	rs of the labia or perineu	m are graded as Ulceration	on 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;	_	_	_			
ALSO CONSIDER: Pain-S	Select		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			

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SURGERY/INTRA-OPERATIVE INJURY								
				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 – Select	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  - Small bowel NOS  - Biliary tree – common bile duct  - Biliary tree – left hepatic duct  - Biliary tree – right hepatic duct  - Biliary tree – right hepatic duct  - Biliary tree – NOS  - Gallbladder  - Liver  - Pancreas  - Pancreatic duct			n hepatic duct atic duct			

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		Grade				
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Acu	te vascular leak syndro	me is graded in the V	ASCULAR CATEGORY.			
NAVIGATION NOTE: Adre	enal insufficiency is gra	ded in the ENDOCRIN	IE CATEGORY.			
NAVIGATION NOTE: Adu	It Respiratory Distress	Syndrome (ARDS) is g	graded in the PULMONARY/	UPPER RESPIRATORY CATE	EGORY.	
NAVIGATION NOTE: Auto	oimmune reaction is gra	aded as Autoimmune r	reaction/hypersensitivity (incl	uding drug fever) in the ALLEF	RGY/IMMUNOLOGY CA	ATEGORY
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	Prolonged (i.e., not rapidly responsive to symptomatic medication and/or brief interruption of infusion); recurrence of symptoms following initial	Life-threatening; pressor or ventilatory support indicated	Death

fluids); prophylactic

for ≤ 24 hrs

medications indicated

improvement:

renal impairment, pulmonary infiltrates)

hospitalization indicated for

other clinical sequelae (e.g.,

**SYNDROMES** 

REMARK: Cytokine release syndromes/acute infusion reactions are different from Allergic/hypersensitive reactions, although some of the manifestations are common to both AEs. An acute infusion reaction may occur with an agent that causes cytokine release (e.g., monoclonal antibodies or other biological agents). Signs and symptoms usually develop during or shortly after drug infusion and generally resolve completely within 24 hrs of completion of infusion. Signs/symptoms may include: Allergic reaction/hypersensitivity (including drug fever); Arthralgia (joint pain); Bronchospasm; Cough; Dizziness; Dyspnea (shortness of breath); Fatigue (asthenia, lethargy, malaise); Headache; Hypertension; Hypotension; Myalgia (muscle pain); Nausea; Pruritus/itching; Rash/desquamation; Rigors/chills; Sweating (diaphoresis); Tachycardia; Tumor pain (onset or exacerbation of tumor pain due to treatment); Urticaria (hives, welts, wheals); Vomiting.

ALSO CONSIDER: Allergic reaction/hypersensitivity (including drug fever); Bronchospasm, wheezing; Dyspnea (shortness of breath); Hypertension; Hypoxia; Prolonged QTc interval; Supraventricular and nodal arrhythmia – Select; Ventricular arrhythmia – Select.

NAVIGATION NOTE: Disseminated intravascular coagulation (DIC) is graded in the COAGULATION CATEGORY.

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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		
			hich may include cough wit consistent with one single p		, headache, malaise, my	algia,		
NAVIGATION NOTE: SIAD	H is graded as Neuroe	ndocrine: ADH secretion	on abnormality (e.g., SIADH	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 necrolysis	) in the		
Navigation Note: Thrombotic microangiopathy is graded as Thrombotic microangiopathy (e.g., thrombotic thrombocytopenic purpura [TTP] or hemolytic uremic syndrome [HUS]) in COAGULATION CATEGORY.								
Syndromes – Other (Specify,)	Syndromes – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death		

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	VASCULAR									
				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				

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	VASCULAR									
				Grade						
Adverse Event	Short Name	1	2	3	4	5				
Vessel injury-artery  – Select:  – Aorta  – Carotid  – Extremity-lower  – Extremity-upper  – Other NOS  – Visceral	Artery injury – Select	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		l-operatively is graded	as Intra-operative injury – S	Select Organ or Structure	in the SURGERY/INTRA					
Vessel injury-vein  - Select:  - Extremity-lower  - Extremity-upper  - IVC  - Jugular  - Other NOS  - SVC  - Viscera	Vein injury – Select	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 INJURY CATEGORY.		peratively is graded as	Intra-operative injury – Sele	ect Organ or Structure in t	he SURGERY/INTRA-OF	PERATIVE				
Visceral arterial ischemia (non-myocardial)	Visceral arterial ischemia	_	Brief (<24 hrs) episode of ischemia managed medically and without permanent deficit	Prolonged (≥ 24 hrs) or recurring symptoms and/or invasional	Life-threatening; disabling; evidence of end organ damage	Death				
ALSO CONSIDER: CNS C	erebrovascular ischemia	1		indicated						
Vascular – Other (Specify,)	Vascular – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death				

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