Common Terminology Criteria for Adverse Events v3.0 (CTCAE)

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Quick Reference

The NCI Common Terminology Criteria for Adverse Events v3.0 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 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 Supra-ordinate term is listed in this CATEGORY: 'Death not associated with CTCAE 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
 - cannot be reported using a CTCAE v3.0 term associated with Grade 5, or
 - 2. cannot be reported within a CTCAE CATEGORY as 'Other (Specify)'

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		ALLERG'	Y/IMMUNOLOGY		Pa	ge 1 of 1		
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		
REMARK: Urticaria with ma	anifestations of allergic or hype	ersensitivity reaction is grade	ed as Allergic reaction/hypers	ensitivity (including drug feve	r).			
ALSO CONSIDER: Cytokine	release syndrome/acute infus	ion reaction.						
Allergic rhinitis (including sneezing, nasal stuffiness, postnasal drip)	Rhinitis	Mild, intervention not indicated	Moderate, intervention indicated	_	_	_		
REMARK: Rhinitis associat	ted with obstruction or stenosis	is graded as Obstruction/ste	enosis of airway – Select in the	ne PULMONARY/UPPER RE	SPIRATORY CATEGORY.	•		
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 non-essential organ or function (e.g., hypothyroidism)	Reversible autoimmune reaction involving function of a major organ or other adverse event (e.g., transient colitis or anemia)	Autoimmune reaction with life-threatening consequences	Death		
ALSO CONSIDER: Colitis; H	lemoglobin; Hemolysis (e.g., in	nmune hemolytic anemia, dru	ug-related hemolysis); Thyroi	d function, low (hypothyroidis	m).			
Serum sickness	Serum sickness	_	_	Present	_	Death		
NAVIGATION NOTE: Splenic	function is graded in the BLO	OD/BONE MARROW CATE	GORY.					
NAVIGATION NOTE: Urticari	ia as an isolated symptom is g	raded as Urticaria (hives, we	Its, wheals) in the DERMATC	DLOGY/SKIN CATEGORY.				
Vasculitis	Vasculitis	Mild, intervention not indicated	Symptomatic, non- steroidal medical intervention indicated	Steroids indicated	Ischemic changes; amputation indicated	Death		
Allergy/Immunology – Other (Specify,)	Allergy – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death		

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		AUD	ITORY/EAR		Pa	ge 1 of 2
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Navigation Note: Earache	(otalgia) is graded as Pain	 Select in the PAIN CATEGO 	RY.			
Hearing: patients with/without baseline audiogram and enrolled in a monitoring program ¹	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	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	Adult only: Profound bilateral hearing loss (>90 dB)	_
program¹	one ear; or subjective change in the absence of a Grade 1 threshold shift		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)	Pediatric: Audiologic indication for cochlear implant and requiring additional speech-language related services		
	endations are identical to the considered to be <5 dB lo	ose for adults, unless specifiedoss.	d. For children and adolescen	nts (≤18 years of age) withou	t a baseline test, pre-exposur	e/pre-
Hearing: patients without baseline audiogram and not enrolled in a monitoring program ¹	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)	_
	endations are identical to the considered to be <5 dB lo	ose for adults, unless specified	d. For children and adolescen	nts (≤18 years of age) withou	t a baseline test, pre-exposur	e/pre-
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: pmonitoring program ¹ .	eatients with/without baseline	e audiogram and enrolled in a	monitoring program ¹ ; Hearing	g: patients without baseline a	udiogram and not enrolled in	a
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

AUDITORY/EAR									
			Grade						
Adverse Event	Short Name	1	2	3	4	5			
Tinnitus	Tinnitus	_	Tinnitus not interfering with ADL	Tinnitus interfering with ADL	Disabling	_			
ALSO CONSIDER: Hearing: pamonitoring program ¹ .	ALSO CONSIDER: Hearing: patients with/without baseline audiogram and enrolled in a monitoring program ¹ ; Hearing: patients without baseline audiogram and not enrolled in a monitoring program ¹ .								
Auditory/Ear – Other (Specify,)	Auditory/Ear – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death			

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.

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 sex-specific hearing norms, e.g., Morrell, et al. Age- and sex-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.

		BLOOD/E	BONE MARROW		Pa	ge 1 of 1
				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 cellularity from normal for age	_	Death
CD4 count	CD4 count	<lln -="" 500="" mm<sup="">3 <lln -="" 0.5="" 10<sup="" x="">9 /L</lln></lln>	<500 – 200/mm ³ <0.5 – 0.2 x 10 ⁹ /L	<200 – 50/mm ³ <0.2 x 0.05 – 10 ⁹ /L	<50/mm ³ <0.05 x 10 ⁹ /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><10.0 – 8.0 g/dL <6.2 – 4.9 mmol/L <100 – 80g/L</td><td><8.0 – 6.5 g/dL <4.9 – 4.0 mmol/L <80 – 65 g/L</td><td><6.5 g/dL <4.0 mmol/L <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 gm 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: Haptoglob	in; Hemoglobin.					
Iron overload	Iron overload	_	Asymptomatic iron overload, intervention not indicated	Iron overload, intervention indicated	Organ impairment (e.g., endocrinopathy, cardiopathy)	Death
Leukocytes (total WBC)	Leukocytes	<lln 3000="" mm<sup="" –="">3 <lln 10<sup="" 3.0="" x="" –="">9 /L</lln></lln>	<3000 – 2000/mm ³ <3.0 – 2.0 x 10 ⁹ /L	<2000 – 1000/mm ³ <2.0 – 1.0 x 10 ⁹ /L	<1000/mm ³ <1.0 x 10 ⁹ /L	Death
Lymphopenia	Lymphopenia	<lln -="" 800="" mm<sup="">3 <lln -="" 0.8="" 10<sup="" x="">9 /L</lln></lln>	<800 – 500/mm ³ <0.8 – 0.5 x 10 ⁹ /L	<500 – 200 mm ³ <0.5 – 0.2 x 10 ⁹ /L	<200/mm ³ <0.2 x 10 ⁹ /L	Death
Myelodysplasia	Myelodysplasia	_	_	Abnormal marrow cytogenetics (marrow blasts ≤5%)	RAEB or RAEB-T (marrow blasts >5%)	Death
Neutrophils/granulocytes (ANC/AGC)	Neutrophils	<lln 1500="" mm<sup="" –="">3 <lln 1.5="" 10<sup="" x="" –="">9 /L</lln></lln>	<1500 – 1000/mm ³ <1.5 – 1.0 x 10 ⁹ /L	<1000 – 500/mm ³ <1.0 – 0.5 x 10 ⁹ /L	<500/mm ³ <0.5 x 10 ⁹ /L	Death
Platelets	Platelets	<lln -="" 75,000="" mm<sup="">3 <lln -="" 10<sup="" 75.0="" x="">9 /L</lln></lln>	<75,000 – 50,000/mm ³ <75.0 – 50.0 x 10 ⁹ /L	<50,000 – 25,000/mm ³ <50.0 – 25.0 x 10 ⁹ /L	<25,000/mm ³ <25.0 x 10 ⁹ /L	Death
Splenic function	Splenic function	Incidental findings (e.g., Howell-Jolly bodies)	Prophylactic antibiotics indicated	_	Life-threatening consequences	Death
Blood/Bone Marrow – Other (Specify,)	Blood – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		CARDIA	CARRHYTHMIA		Pa	ge 1 of 2
				Grade		<u> </u>
Adverse Event	Short Name	1	2	3	4	5
Conduction abnormality/ atrioventricular heart block — Select:	Conduction abnormality — Select	Asymptomatic, intervention not indicated	Non-urgent medical intervention indicated	Incompletely controlled medically or controlled with device (e.g., pacemaker)	Life-threatening (e.g., arrhythmia associated with CHF, hypotension, syncope, shock)	Death
 Asystole AV Block-First degree AV Block-Second deg AV Block-Second deg AV Block-Third degree Conduction abnormali Sick Sinus Syndrome Stokes-Adams Syndrome Wolff-Parkinson-White 	e (Complete ÁV block) sy NOS me	ach)				
Palpitations	Palpitations	Present	Present with associated symptoms (e.g., lightheadedness, shortness of breath)	_	_	_
REMARK: Grade palpitation	s <u>only</u> in the absence of a do	cumented arrhythmia.				
Prolonged QTc interval	Prolonged QTc	QTc >0.45 – 0.47 second	QTc >0.47 – 0.50 second; ≥0.06 second above baseline	QTc >0.50 second	QTc >0.50 second; life- threatening signs or symptoms (e.g., arrhythmia, CHF, hypotension, shock syncope); Torsade de pointes	Death
 Nodal/Junctional Sinus arrhythmia Sinus bradycardia Sinus tachycardia Supraventricular arrhy Supraventricular extra 	systoles (Premature Atrial Co	Asymptomatic, intervention not indicated	Non-urgent medical intervention indicated Junctional Contractions)	Symptomatic and incompletely controlled medically, or controlled with device (e.g., pacemaker)	Life-threatening (e.g., arrhythmia associated with CHF, hypotension, syncope, shock)	Death
- Supraventricular tachy		· · · · · · · · · · · · · · · · · · ·	FEOODY			
NAVIGATION NOTE: Syncope	e is graded as Syncope (fainti	ing) in the NEUROLOGY CAT	IEGORY.			

CARDIAC ARRHYTHMIA Pag						
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Vasovagal episode	Vasovagal episode	_	Present without loss of consciousness	Present with loss of consciousness	Life-threatening consequences	Death
Ventricular arrhythmia - Select: - Bigeminy - Idioventricular rhythm - PVCs - Torsade de pointes - Trigeminy - Ventricular arrhythmia - Ventricular fibrillation - Ventricular flutter - Ventricular tachycardia		Asymptomatic, no intervention indicated	Non-urgent medical intervention indicated	Symptomatic and incompletely controlled medically or controlled with device (e.g., defibrillator)	Life-threatening (e.g., arrhythmia associated with CHF, hypotension, syncope, shock)	Death
Cardiac Arrhythmia – Other (Specify,)	Cardiac Arrhythmia – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		CARDI	AC GENERAL		Pa	ge 1 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Angina is	graded as Cardiac ischemi	a/infarction in the CARDIAC C	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	_
 A CTCAE 'Other Death not asso 		Select in the DEATH CATEGO				
<u> </u>	· · · · · · · · · · · · · · · · · · ·	uritic) is graded as Pain – Sele				
NAVIGATION NOTE: CNS isch	nemia is graded as CNS cere	ebrovascular ischemia in the I	NEUROLOGY CATEGORY.			
Hypertension	Hypertension	Asymptomatic, transient (<24 hrs) increase by >20 mmHg (diastolic) or to >150/100 if previously WNL; 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	Requiring more than one drug or more intensive therapy than previously	Life-threatening consequences (e.g., hypertensive crisis)	Death
		Pediatric: Asymptomatic, transient (<24 hrs) BP increase >ULN; intervention not indicated	Pediatric: Recurrent or persistent (≥24 hrs) BP >ULN; monotherapy may be indicated	Pediatric: Same as adult	Pediatric: Same as adult	

		CARDI	AC GENERAL		Pa	ge 2 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Hypotension	Hypotension	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
ALSO CONSIDER: Syncope (fainting).					
Left ventricular diastolic dysfunction	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
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: Myocard	lial infarction is graded as Car	diac ischemia/infarction in th	e CARDIAC GENERAL CAT	EGORY.		
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: Pleuritic	pain is graded as Pain – Sele	ect in the PAIN CATEGORY.				
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

		CARDI	AC GENERAL		Paş	ge 3 of 3
				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

		COA	GULATION		Pag	ge 1 of 1
				Grade		
Adverse Event	Short Name	1	2	3	4	5
DIC (disseminated intravascular coagulation)	DIC	_	Laboratory findings with no bleeding	Laboratory findings <u>and</u> bleeding	Laboratory findings, life- threatening or disabling consequences (e.g., CNS hemorrhage, organ damage, or hemodynamically significant blood loss)	Death
REMARK: DIC (disseminated	d intravascular coagulation) n	nust have increased fibrin spl	it products or D-dimer.			
ALSO CONSIDER: Platelets.						
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 of	only when baseline is <lln (i<="" td=""><td>ocal laboratory value).</td><td>'</td><td>1</td><td>'</td><td>Ţ.</td></lln>	ocal laboratory value).	'	1	'	Ţ.
INR (International Normalized Ratio of prothrombin time)	INR	>1 – 1.5 x ULN	>1.5 – 2 x ULN	>2 x ULN	_	_
ALSO CONSIDER: Hemorrhag	ge, CNS; Hemorrhage, GI – S	Select; Hemorrhage, GU – Se	elect; Hemorrhage, pulmonar	y/upper respiratory – <i>Select</i> .	1	Į.
PTT (Partial Thromboplastin Time)	PTT	>1 – 1.5 x ULN	>1.5 – 2 x ULN	>2 x ULN	_	_
ALSO CONSIDER: Hemorrhag	ge, CNS; Hemorrhage, GI – S	Select; Hemorrhage, GU – Se	elect; Hemorrhage, pulmonar	y/upper respiratory – Select.	'	
Thrombotic microangiopathy (e.g., thrombotic thrombocytopenic purpura [TTP] or hemolytic uremic syndrome [HUS])	Thrombotic microangiopathy	Evidence of RBC destruction (schistocytosis) without clinical consequences	_	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 microa	ngiopathic changes on blood	smear (e.g., schistocytes, he	elmet cells, red cell fragments	s).	1	•
ALSO CONSIDER: Creatinine	Hemoglobin; Platelets.					
Coagulation – Other (Specify,)	Coagulation – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		CONSTITUT	IONAL SYMPTON	IS	Pa	ige 1 of 2
				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 ⁹ /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	measurements listed are ora	al or tympanic.				
ALSO CONSIDER: Allergic re	action/hypersensitivity (inclu	ıding drug fever).				
NAVIGATION NOTE: Hot flash	nes are graded as Hot flashe	es/flushes in the ENDOCRINE	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 sy	mptoms interfere with sleep	, do NOT grade as insomnia.	Grade primary event(s) causi	ng insomnia.	'	1
Obesity ²	Obesity	_	BMI 25 – 29.9 kg/m ²	BMI 30 – 39.99 kg/m ²	BMI ≥40 kg/m ²	_
REMARK: BMI = (weight [kg]) / (height [m]) ²	·	•	•	•	1
Odor (patient odor)	Patient odor	Mild odor	Pronounced odor	_	_	
Rigors/chills	Rigors/chills	Mild	Moderate, narcotics indicated	Severe or prolonged, not responsive to narcotics	_	_

CTCAE v3.0

² NHLBI Obesity Task Force. "Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults," *The Evidence Report,* Obes Res 6:51S-209S, 1998.

	CONSTITUTIONAL SYMPTOMS							
			Grade					
Adverse Event	Short Name	1	2	3	4	5		
Sweating (diaphoresis)	Sweating	Mild and occasional	Frequent or drenching	_	_	_		
ALSO CONSIDER: Hot flashes	s/flushes.		'	'	'	"		
Weight gain	Weight gain	5 – <10% of baseline	10 - <20% of baseline	≥20% of baseline	_	_		
REMARK: Edema, depending	g on etiology, is graded in the	CARDIAC GENERAL or LY	MPHATICS CATEGORIES.	'	'	"		
ALSO CONSIDER: Ascites (no	on-malignant); Pleural effusio	n (non-malignant).						
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		

		l	DEATH		Pa	ge 1 of 1
		Grade				
Adverse Event	Short Name	1	2	3	4	5
Death not associated with CTCAE term - Select: - Death NOS - Disease progression N - Multi-organ failure - Sudden death	Death not associated with CTCAE term – Select	_	_	_	_	Death

REMARK: Grade 5 is the only appropriate grade. 'Death not associated with CTCAE term – Select' is to be used where a death:

- 1. Cannot be attributed to a CTCAE term associated with Grade 5.
- 2. Cannot be reported within any CATEGORY using a CTCAE 'Other (Specify, __)'.

		DERMA	TOLOGY/SKIN		P	age 1 of 3
				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: Induration/	fibrosis (skin and subcutane	ous tissue).		'		'
Bruising (in absence of Grade 3 or 4 thrombocytopenia)	Bruising	Localized or in a dependent area	Generalized	_	_	_
Burn	Burn	Minimal symptoms; intervention not indicated	Medical intervention; minimal debridement indicated	Moderate to major debridement or reconstruction indicated	Life-threatening consequences	Death
REMARK: Burn refers to all b	burns including radiation, che	emical, etc.	'		'	'
Cheilitis	Cheilitis	Asymptomatic	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL	_	_
Dry skin	Dry skin	Asymptomatic	Symptomatic, not interfering with ADL	Interfering with ADL	_	_
Flushing	Flushing	Asymptomatic	Symptomatic	_	_	_
Hair loss/alopecia (scalp or body)	Alopecia	Thinning or patchy	Complete		_	_
Hyperpigmentation	Hyperpigmentation	Slight or localized	Marked or generalized	_	_	_
Hypopigmentation	Hypopigmentation	Slight or localized	Marked or generalized	_	_	_
Induration/fibrosis (skin and subcutaneous tissue)	Induration	Increased density on palpation	Moderate impairment of function not interfering with ADL; marked increase in density and firmness on palpation with or without minimal retraction	Dysfunction interfering with ADL; very marked density, retraction or fixation		
ALSO CONSIDER: Fibrosis-co	osmesis; Fibrosis-deep conn	ective tissue.				
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 rea	action/hypersensitivity (includ	ding drug fever); Ulceration.				

		DERMA	TOLOGY/SKIN		Pa	ge 2 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Nail changes	Nail changes	Discoloration; ridging (koilonychias); pitting	Partial or complete loss of nail(s); pain in nailbed(s)	Interfering with ADL	_	_
Navigation Note: Petechia	e is graded as Petechiae/p	urpura (hemorrhage/bleeding i	nto skin or mucosa) in the HE	MORRHAGE/BLEEDING CA	ATEGORY.	
Photosensitivity	Photosensitivity	Painless erythema	Painful erythema	Erythema with desquamation	Life-threatening; disabling	Death
Pruritus/itching	Pruritus	Mild or localized	Intense or widespread	Intense or widespread and interfering with ADL	_	_
ALSO CONSIDER: Rash/desq	uamation.	'	'	'	'	'
Rash/desquamation	Rash	Macular or papular eruption or erythema without associated symptoms	Macular or papular eruption or erythema with pruritus or other associated symptoms; localized desquamation or other lesions covering <50% 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
REMARK: Rash/desquamation	on may be used for GVHD.					
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	_	_

		DERMA	TOLOGY/SKIN		Pag	ge 3 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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 breakdown/d	T	for loss of skin integrity or ded	cubitus ulcer from pressure o	r as the result of operative or	medical intervention.	
Striae	Striae	Mild	Cosmetically significant	_	_	_
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: Allergic rea	action/hypersensitivity (includ	ding drug fever).	,	·		
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 complicati	on, non-infectious is to be us	sed for separation of incision,	hernia, dehiscence, eviscera	tion, or second surgery for we	ound revision.	
Dermatology/Skin – Other (Specify,)	Dermatology – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		EN	DOCRINE		Pa	ge 1 of 2
				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
	raving, syncope (fainting), viti			ipation, diarrhea, hypotensior by must be confirmed by labo		
ALSO CONSIDER: Potassium	, serum-high (hyperkalemia);	Thyroid function, low (hypoth	nyroidism).			
Cushingoid appearance (e.g., moon face, buffalo hump, centripetal obesity, cutaneous striae)	Cushingoid	_	Present	_	_	_
ALSO CONSIDER: Glucose, s	erum-high (hyperglycemia); I	otassium, serum-low (hypok	calemia).			
Feminization of male	Feminization of male	_	_	Present	_	_
Navigation Note: Gynecom	nastia is graded in the SEXU	AL/REPRODUCTIVE FUNC	TION CATEGORY.			
Hot flashes/flushes ³	Hot flashes	Mild	Moderate	Interfering with ADL	_	_
Masculinization of female	Masculinization of female	_	_	Present	_	_
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	_	_
Neuroendocrine: growth hormone secretion abnormality	Growth hormone	Asymptomatic	Symptomatic, not interfering with ADL; intervention indicated	_	_	_
Neuroendocrine: prolactin hormone secretion abnormality	Prolactin	Asymptomatic	Symptomatic, not interfering with ADL; intervention indicated	Symptoms interfering with ADL; amenorrhea; galactorrhea	_	Death

³ Sloan JA, Loprinzi CL, Novotny PJ, Barton DL, Lavasseur BI, Windschitl HJ, "Methodologic Lessons Learned from Hot Flash Studies," *J Clin Oncol* 2001 Dec 1;19(23):4280-90

	ENDOCRINE Page 2						
				Grade			
Adverse Event	Short Name	1	2	3	4	5	
Pancreatic endocrine: glucose intolerance	Diabetes	Asymptomatic, intervention not indicated	Symptomatic; dietary modification or oral agent indicated	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	

		GASTR	OINTESTINAL		Pag	e 1 of 10
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Abdomi	inal pain or cramping is gra	nded as Pain – Select in the PAIN	N CATEGORY.			
Anorexia	Anorexia	Loss of appetite without alteration in eating habits	Oral intake altered without significant weight loss or malnutrition; oral nutritional supplements indicated	Associated with significant weight loss or malnutrition (e.g., inadequate oral caloric and/or fluid intake); IV fluids, tube feedings or TPN indicated	Life-threatening consequences	Death
ALSO CONSIDER: Weight lo	SS.					
Ascites (non-malignant)	Ascites	Asymptomatic	Symptomatic, medical intervention indicated	Symptomatic, invasive procedure indicated	Life-threatening consequences	Death
REMARK: Ascites (non-ma	lignant) refers to document	ted non-malignant ascites or unk	nown etiology, but unlikely m	alignant, and includes chylou	ıs ascites.	
Colitis	Colitis	Asymptomatic, pathologic or radiographic findings only	Abdominal pain; mucus or blood in stool	Abdominal pain, fever, change in bowel habits with ileus; peritoneal signs	Life-threatening consequences (e.g., perforation, bleeding, ischemia, necrosis, toxic megacolon)	Death
ALSO CONSIDER: Hemorrha	age, GI – <i>Select</i> .	'	1	I	1	1
Constipation	Constipation	Occasional or intermittent symptoms; occasional use of stool softeners, laxatives, dietary modification, or enema	Persistent symptoms with regular use of laxatives or enemas indicated	Symptoms interfering with ADL; obstipation with manual evacuation indicated	Life-threatening consequences (e.g., obstruction, toxic megacolon)	Death
ALSO CONSIDER: Ileus, GI	(functional obstruction of b	owel, i.e., neuroconstipation); Ob	ostruction, GI – Select.	'	'	,
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;	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		_

		GASTR	OINTESTINAL		Pag	e 2 of 10
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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 periodon	ital disease leading to osteone	crosis is graded as Osteoned	crosis (avascular necrosis) in	the MUSCULOSKELETAL C	CATEGORY.	
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 indicated	_	_
Dental: teeth development	Teeth development	Hypoplasia of tooth or enamel not interfering with function	Functional impairment correctable with oral surgery	Maldevelopment with functional impairment not surgically correctable	_	
Diarrhea	Diarrhea	Increase of <4 stools per day over baseline; mild increase in ostomy output compared to baseline	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 include	s diarrhea of small bowel or co	olonic origin, and/or ostomy d	iarrhea.	'		,
ALSO CONSIDER: Dehydrat	tion; Hypotension.					
Distension/bloating, abdominal	Distension	Asymptomatic	Symptomatic, but not interfering with GI function	Symptomatic, interfering with GI function	_	
ALSO CONSIDER: Ascites (I	non-malignant); lleus, GI (func	tional obstruction of bowel, i.e	e., neuroconstipation); Obstru	uction, GI – Select.		•

		GASTR	OINTESTINAL		Pag	je 3 of 10
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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	_	
		s descriptions of grade using rements are used for initial as				throughout
ALSO CONSIDER: Salivary gla	•					
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 (difficu Stricture/stenosis (including		for swallowing difficulty from	oral, pharyngeal, esophagea	l, or neurologic origin. Dysph	agia requiring dilation is grad	ded as
ALSO CONSIDER: Dehydratio	n; Esophagitis.					
Enteritis (inflammation of the small bowel)	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: Hemorrhag	ge, GI – <i>Select</i> ; Typhlitis (cec	cal inflammation).				
Esophagitis	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 includ	es reflux esophagitis.		•	•	•	
ALSO CONSIDER: Dysphagia	(difficulty swallowing).					

	GASTROINTESTINAL Page 4 of 10								
				Grade					
Adverse Event	Short Name	1	2	3	4	5			
	d as an abnormal communica								
Flatulence	Flatulence	Mild	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: Hemorrhag	ge, Gl – <i>Select</i> ; Ulcer, Gl – <i>S</i>	elect.							
Navigation Note: Head and	d neck soft tissue necrosis is	graded as Soft tissue necros	sis – Select in the MUSCULC	SKELETAL/SOFT TISSUE (CATEGORY.				
Heartburn/dyspepsia	Heartburn	Mild	Moderate	Severe	_				
Hemorrhoids	Hemorrhoids	Asymptomatic	Symptomatic; banding or medical intervention indicated	Interfering with ADL; interventional radiology, endoscopic, or operative intervention indicated	Life-threatening consequences	Death			

		GASTR	OINTESTINAL		ı	Page 5 of 10
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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	used for altered upper or lowe	er GI function (e.g., delayed g	astric or colonic emptying).			
ALSO CONSIDER: Constipati	on; Nausea; Obstruction, GI	- Select; Vomiting.				
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 sph	incter control as sequelae of	operative or therapeutic inter	vention.		
Leak (including anastomotic), GI – Select: - Biliary tree - Esophagus - Large bowel - Leak NOS - Pancreas - Pharynx - Rectum - Small bowel - Stoma - Stomach	Leak, GI – Select	Asymptomatic radiographic findings only	Symptomatic; medical intervention indicated	Symptomatic and interfering with GI function; invasive or endoscopic intervention indicated	Life-threatening consequences	Death
	nasomotic), GI – <i>Select</i> is to l yngeal, rectal), but without de	be used for clinical signs/sym evelopment of fistula.	ptoms or radiographic confire	nation of anastomotic or con-	duit leak (e.g., biliary, esc	pnageal,
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

GASTROINTESTINAL Page 6 of 10									
				Grade					
Adverse Event	Short Name	1	2	3	4	5			
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	Patchy ulcerations or pseudomembranes	Confluent ulcerations or pseudomembranes; bleeding with minor trauma	Tissue necrosis; significant spontaneous bleeding; life-threatening consequences	Death			
REMARK: Mucositis/stomatit	tis (functional/symptomatic) m	nay be used for mucositis of t	he upper aero-digestive tract	caused by radiation, agents,	or GVHD.	II.			
Mucositis/stomatitis (functional/symptomatic) – Select: – Anus – Esophagus – Large bowel – Larynx – Oral cavity – Pharynx	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,	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	Upper aerodigestive tract sites: Symptomatic and unable to adequately aliment or hydrate orally; respiratory symptoms interfering with ADL Lower GI sites: Stool incontinence or	Symptoms associated with life-threatening consequences	Death			
RectumSmall bowelStomachTrachea		intervention not indicated	intervention indicated but not interfering with ADL	other symptoms interfering with ADL					
Nausea ALSO CONSIDER: Anorexia;	Nausea	Loss of appetite without alteration in eating habits	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			

GASTROINTESTINAL Page 7 of 10								
				Grade				
Adverse Event	Short Name	1	2	3	4	5		
Necrosis, GI - Select: - Anus - Colon/cecum/appendi - Duodenum - Esophagus - Gallbladder - Hepatic - Ileum - Jejunum - Oral - Pancreas - Peritoneal cavity - Pharynx - Rectum - Small bowel NOS - Stoma - Stomach				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		
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		

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		GASTR	OINTESTINAL		Pa	ge 8 of 10
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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
Prolapse of stoma, GI	Prolapse of stoma, GI	Asymptomatic	Extraordinary local care or maintenance; minor revision indicated	Dysfunctional stoma; major revision indicated	Life-threatening consequences	Death
	nplications may be graded as large anastomotic), GI – Select.	Fistula, GI – <i>Select</i> ; Leak (inc	luding anastomotic), GI – Se	elect; Obstruction, GI – Select	; Perforation, GI – Select;	'
NAVIGATION NOTE: Rectal of	or perirectal pain (proctalgia) is	s graded as Pain – <i>Select</i> in t	he PAIN CATEGORY.			
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 (dysgeusia).	h/salivary gland (xerostomia);	Mucositis/stomatitis (clinical e	exam) – Select; Mucositis/sto	omatitis (functional/symptoma	tic) – Select; Taste alteration	'n
NAVIGATION NOTE: Splenic	function is graded in the BLO	OD/BONE MARROW CATEO	GORY.			

GASTROINTESTINAL Page 9 of 10									
		Grade							
Adverse Event	Short Name	1	2	3	4	5			
Stricture/stenosis (including anastomotic), GI - Select: - Anus - Biliary tree - Cecum - Colon - Duodenum - Esophagus - Ileum - Jejunum - Pancreas/pancreatic d - Pharynx - Rectum - Small bowel NOS - Stoma - Stomach	Stricture, GI – <i>Select</i>	Asymptomatic radiographic findings only	Symptomatic; altered GI function (e.g., altered dietary habits, vomiting, bleeding, diarrhea); IV fluids indicated <24 hrs	Symptomatic and severely altered GI function (e.g., altered dietary habits, diarrhea, or GI fluid loss); IV fluids, tube feedings, or TPN indicated ≥24 hrs; operative intervention indicated	Life-threatening consequences; operative intervention requiring complete organ resection (e.g., total colectomy)	Death			
Taste alteration (dysgeusia)	Taste alteration	Altered taste but no change in diet	Altered taste with change in diet (e.g., oral supplements); noxious or unpleasant taste; loss of taste	_	_	_			
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			

	GASTROINTESTINAL								
			Grade						
Adverse Event	Short Name	1	2	3	4	5			
Ulcer, GI - Select: - Anus - Cecum - Colon - Duodenum - Esophagus - Ileum - Jejunum - Rectum - Small bowel NOS - Stoma - Stomach	Ulcer, GI – Select	Asymptomatic, radiographic or endoscopic findings only	Symptomatic; altered GI function (e.g., altered dietary habits, oral supplements); IV fluids indicated <24 hrs	Symptomatic and severely altered GI function (e.g., inadequate oral caloric or fluid intake); IV fluids, tube feedings, or TPN indicated ≥24 hrs	Life-threatening consequences	Death			
ALSO CONSIDER: Hemorrha	ge, GI – <i>Select</i> .			,					
Vomiting	Vomiting	1 episode in 24 hrs	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: Dehydration	ALSO CONSIDER: Dehydration.								
Gastrointestinal – Other (Specify,)	GI – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death			

		GROWTH AI	ND DEVELOPMEN	IT	Pa	ge 1 of 1
				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 testicu	ular size for Tanner Stage in r	nale cancer survivors.				
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 sex mean height	Altered ADL	_	_	_
REMARK: Short stature is se	econdary to growth hormone	deficiency.	•	'	•	•
ALSO CONSIDER: Neuroendo	ocrine: growth hormone secre	tion abnormality.				
Growth and Development – Other (Specify,)	Growth and Development – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

	HEMORRH	HAGE/BLEEDING		P	Page 1 of 4
			Grade		
Short Name	1	2	3	4	5
Hematoma	Minimal symptoms, invasive intervention not indicated	Minimally invasive evacuation or aspiration indicated	Transfusion, interventional radiology, or operative intervention indicated	Life-threatening consequences; major urgent intervention indicated	Death
to extravasation at wound or	operative site or secondary t	o other intervention. Transfu	ision implies pRBC.		·
; INR (International Normalize	ed Ratio of prothrombin time)); Platelets; PTT (Partial Thr	omboplastin Time).		
Hemorrhage with surgery		_	Requiring transfusion of 2 units non-autologous (10 cc/kg for pediatrics) pRBCs beyond protocol specification; postoperative interventional radiology, endoscopic, or operative intervention indicated	Life-threatening consequences	Death
iod is defined as ≤72 hours at	fter surgery. Verify protocol-s	pecific acceptable guideline	s regarding pRBC transfusion	•	'
; INR (International Normalize	ed Ratio of prothrombin time)); Platelets; PTT (Partial Thr	omboplastin Time).		
CNS hemorrhage	Asymptomatic, radiographic findings only	Medical intervention indicated	Ventriculostomy, ICP monitoring, intraventricular thrombolysis, or operative intervention indicated	Life-threatening consequences; neurologic deficit or disability	Death
	Hematoma to extravasation at wound or ; INR (International Normalize Hemorrhage with surgery od is defined as ≤72 hours at ; INR (International Normalize	Short Name Hematoma Minimal symptoms, invasive intervention not indicated to extravasation at wound or operative site or secondary to include the extravasation at wound or operative site or secondary to its (International Normalized Ratio of prothrombin time) Hemorrhage with surgery od is defined as ≤72 hours after surgery. Verify protocol-so indicated INR (International Normalized Ratio of prothrombin time) CNS hemorrhage Asymptomatic,	Short Name 1 2 Hematoma Minimal symptoms, invasive intervention not indicated to extravasation at wound or operative site or secondary to other intervention. Transful (International Normalized Ratio of prothrombin time); Platelets; PTT (Partial Thrombin time) with surgery — od is defined as ≤72 hours after surgery. Verify protocol-specific acceptable guideline; INR (International Normalized Ratio of prothrombin time); Platelets; PTT (Partial Thrombin time); Platelets; PTT (Partial Thrombin time); Asymptomatic, Medical intervention	Hematoma Minimal symptoms, invasive intervention not indicated Minimally invasive evacuation or aspiration interventional radiology, or operative intervention indicated Transfusion, interventional radiology, or operative intervention indicated Intervention indicated Transfusion indicated Transfusion intervention indicated Transfusion intervention indicated Transfusion intervention indicated Transfusion indicated	Short Name 1 2 3 4 Hematoma Minimal symptoms, invasive intervention not indicated to extravasation at wound or operative site or secondary to other intervention. Transfusion implies pRBC. INR (International Normalized Ratio of prothrombin time); Platelets; PTT (Partial Thromboplastin Time). Requiring transfusion of 2 units non-autologous (10 cc/kg for pediatrics) pRBCs beyond protocol specification; postoperative intervention indicated International Normalized Ratio of prothrombin time); Platelets; PTT (Partial Thromboplastin Time). Requiring transfusion of 2 units non-autologous (10 cc/kg for pediatrics) pRBCs beyond protocol specification; postoperative interventional radiology, endoscopic, or operative intervention indicated INR (International Normalized Ratio of prothrombin time); Platelets; PTT (Partial Thromboplastin Time). INR (International Normalized Ratio of prothrombin time); Platelets; PTT (Partial Thromboplastin Time). CNS hemorrhage Asymptomatic, radiographic findings only Medical intervention indicated Ventriculostomy, ICP monitoring, intraventricular thrombolysis, or operative intervention disability Ventrombolysis, or operative disability Ventro

		HEMORRI	HAGE/BLEEDING		Pa	ge 2 of 4	
			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	Mild, intervention (other than iron supplements) not indicated	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	

REMARK: Transfusion implies pRBC.

ALSO CONSIDER: Fibrinogen; INR (International Normalized Ratio of prothrombin time); Platelets; PTT (Partial Thromboplastin Time).

		HEMORRI	HAGE/BLEEDING		ı	Page 3 of 4
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Hemorrhage, GU - Select: - Bladder - Fallopian tube - Kidney - Ovary - Prostate - Retroperitoneum - Spermatic cord - Stoma - Testes - Ureter - Urethra - Urinary NOS - Uterus - Vagina - Vas deferens REMARK: Transfusion implied	Hemorrhage, GU – Select es pRBC. ; INR (International Normalize	Minimal or microscopic bleeding; intervention not indicated	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
Hemorrhage, pulmonary/ upper respiratory - Select: - Bronchopulmonary NO - Bronchus - Larynx - Lung - Mediastinum - Nose - Pharynx - Pleura - Respiratory tract NOS - Stoma - Trachea	Hemorrhage pulmonary – Select	Mild, intervention not indicated	Symptomatic and medical intervention 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
REMARK: Transfusion implies	·					
ALSO CONSIDER: Fibrinogen	; INR (International Normalize	ed Ratio of prothrombin time); Platelets; PTT (Partial Thro	omboplastin Time).		
Petechiae/purpura (hemorrhage/bleeding into skin or mucosa)	Petechiae	Few petechiae	Moderate petechiae; purpura	Generalized petechiae or purpura		_
ALSO CONSIDER: Fibrinogen	; INR (International Normalize	ed Ratio of prothrombin time); Platelets; PTT (Partial Thro	omboplastin Time).		

HEMORRHAGE/BLEEDING Page									
			Grade						
Adverse Event	Short Name	1	2	3	4	5			
NAVIGATION NOTE: Vitreous	hemorrhage is graded in the	OCULAR/VISUAL CATEGO	DRY.						
Hemorrhage/Bleeding – Other (Specify,)	Hemorrhage – Other (Specify)	Mild without transfusion	_	Transfusion indicated	Catastrophic bleeding, requiring major non-elective intervention	Death			

		HEPATOBII	LIARY/PANCREAS	S	Pa	ge 1 of 1			
	Grade								
Adverse Event	Short Name	1	2	3	4	5			
		ula, GI – <i>Select</i> ; Leak (includi Se <i>lect</i> in the GASTROINTES		Necrosis, GI – <i>Select</i> ; Obstr	uction, GI – <i>Select</i> ; Perforati	on, 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			
ALSO CONSIDER: Infection (owith unknown ANC – Selection (or a selection) and the selection (or a selection) are selection (or a selection) and the selection (or a selection) are selection (or a selection) and the selection (or a selection) are selection (or a selection) and the selection (or a selection) are selection (or a selection) are selection (or a selection) and the selection (or a selection) are selection (or a selection) and the selection (or a selection) are selection (or a select		obiologically) with Grade 3 or	4 neutrophils – Select; Infec	tion with normal ANC or Grad	de 1 or 2 neutrophils – Selec	t; Infection			
Liver dysfunction/failure (clinical)	Liver dysfunction	_	Jaundice	Asterixis	Encephalopathy or coma	Death			
REMARK: Jaundice is not ar	AE, but occurs when the liv	er is not working properly or v	when a bile duct is blocked. It	is graded as a result of liver	dysfunction/failure or elevate	ed bilirubin.			
ALSO CONSIDER: Bilirubin (h	yperbilirubinemia).								
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: Diarrhea.	·		'	'	'				
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: Amylase.	'	'	'	'	'	'			
NAVIGATION NOTE: Stricture	(biliary tree, hepatic or panc	reatic) is graded as Stricture/s	stenosis (including anastomo	tic), GI – <i>Select</i> in the GASTI	ROINTESTINAL CATEGOR	Y.			
Hepatobiliary/Pancreas – Other (Specify,)	Hepatobiliary – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death			

INFECTION Page 1 of 3										
Grade										
Adverse Event	Short Name	1	2	3	4	5				
Colitis, infectious (e.g., Clostridium difficile)	Colitis, infectious	Asymptomatic, pathologic or radiographic findings only	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				
ALSO CONSIDER: Hemorrhag	je, GI – Select; Typhlitis (cec	al inflammation).		T						
Febrile neutropenia (fever of unknown origin without clinically or microbiologically documented infection) (ANC <1.0 x 10 ⁹ /L, fever ≥38.5°C)	Febrile neutropenia		_	Present	Life-threatening consequences (e.g., septic shock, hypotension, acidosis, necrosis)	Death				
ALSO CONSIDER: Neutrophils	s/granulocytes (ANC/AGC).									
Infection (documented clinically or microbiologically) with Grade 3 or 4 neutrophils (ANC <1.0 x 10 ⁹ /L) – Select	Infection (documented clinically) with Grade 3 or 4 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				
'Select' AEs appear at the end of the CATEGORY.										
REMARK: Fever with Grade documented infection).	3 or 4 neutrophils in the abse	ence of documented infection	is graded as Febrile neutrop	oenia (fever of unknown origin	without clinically or microbio	ologically				
ALSO CONSIDER: Neutrophils	s/granulocytes (ANC/AGC).									
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				

		IN	FECTION		Pa	ge 2 of 3
				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 unki	nown ANC – <i>Select</i> is to be u	sed in the rare case when Al	NC is unknown.	'	1	•
Opportunistic infection associated with ≥Grade 2 Lymphopenia	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
ALSO CONSIDER: Lymphope	nia.					
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	is graded as Infection – Sele	ect.	•	•		•
ALSO CONSIDER: Albumin, s (hyperbilirubinemia); Encep); ALT, SGPT (serum glutami	c pyruvic transaminase); AS	T, SGOT (serum glutamic oxa	aloacetic transaminase); Biliru	ubin
Infection – Other (Specify,)	Infection – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

	INFECTION - SELECT	Τ	Page 3 of 3
AUDITORY/EAR - External ear (otitis externa) - Middle ear (otitis media) CARDIOVASCULAR - Artery - Heart (endocarditis) - Spleen - Vein DERMATOLOGY/SKIN - Lip/perioral - Peristomal - Skin (cellulitis) - Ungual (nails) GASTROINTESTINAL - Abdomen NOS - Anal/perianal - Appendix - Cecum - Colon - Dental-tooth - Duodenum - Esophagus - Ileum - Jejunum - Oral cavity-gums (gingivitis)	GENERAL - Blood - Catheter-related - Foreign body (e.g., graft, implant, prosthesis, stent) - Wound HEPATOBILIARY/PANCREAS - Biliary tree - Gallbladder (cholecystitis) - Liver - Pancreas LYMPHATIC - Lymphatic MUSCULOSKELETAL - Bone (osteomyelitis) - Joint - Muscle (infection myositis) - Soft tissue NOS NEUROLOGY - Brain (encephalitis, infectious) - Brain + Spinal cord (encephalomyelitis) - Meninges (meningitis) - Nerve-cranial - Nerve-peripheral	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 - Ureter - Urethra - Urinary tract NOS SEXUAL/REPRODUCTIVE FUNCTION - Cervix - Fallopian tube - Pelvis NOS	Page 3 of 3
Peritoneal cavity Rectum	Spinal cord (myelitis)OCULAR	– Penis	
RectumSalivary glandSmall bowel NOS	OCULAR - Conjunctiva - Cornea	ScrotumUterusVagina	

Uterus VaginaVulva

ConjunctivaCorneaEye NOSLens

Stomach

		LYI	MPHATICS		Pa	ge 1 of 2
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Chyle or lymph leakage	Chyle or lymph leakage	Asymptomatic, clinical or radiographic findings	Symptomatic, medical intervention indicated	Interventional radiology or operative intervention indicated	Life-threatening complications	Death
ALSO CONSIDER: Chylothor	ax.	ı	ı	I	I	ı
Dermal change lymphedema, phlebolymphedema	Dermal change	Trace thickening or faint discoloration	Marked discoloration; leathery skin texture; papillary formation	_	_	_
REMARK: Dermal change ly	mphedema, phlebolymphede	ema refers to changes due to	venous stasis.		·	·
ALSO CONSIDER: Ulceration	1.					
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
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	Asymptomatic; clinical or radiographic findings only	Symptomatic; medical intervention indicated	Symptomatic and unable to aliment adequately orally; interventional radiology or operative intervention indicated	Life-threatening consequences	Death

	LYMPHATICS						
				Grade			
Adverse Event	Short Name	1	2	3	4	5	
Lymphedema-related fibrosis	Lymphedema-related fibrosis	Minimal to moderate redundant soft tissue, unresponsive to elevation or compression, with moderately firm texture or spongy feel	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	Asymptomatic, clinical or radiographic findings only	Symptomatic; medical intervention indicated	Symptomatic and interventional radiology or operative intervention indicated	_	_	
Phlebolymphatic cording	Phlebolymphatic cording	Asymptomatic, clinical findings only	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	

		METABO	LIC/LABORATOF	RY		Page 1 of
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Acidosis (metabolic or respiratory)	Acidosis	pH <normal, but="" td="" ≥7.3<=""><td>_</td><td>pH <7.3</td><td>pH <7.3 with life- threatening consequences</td><td>Death</td></normal,>	_	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><3 – 2 g/dL <30 – 20 g/L</td><td><2 g/dL <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
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
ALT, SGPT (serum glutamic pyruvic transaminase)	ALT	>ULN – 2.5 x ULN	>2.5 – 5.0 x ULN	>5.0 – 20.0 x ULN	>20.0 x ULN	_
Amylase	Amylase	>ULN – 1.5 x ULN	>1.5 – 2.0 x ULN	>2.0 – 5.0 x ULN	>5.0 x ULN	_
AST, SGOT (serum glutamic oxaloacetic transaminase)	AST	>ULN – 2.5 x ULN	>2.5 – 5.0 x ULN	>5.0 – 20.0 x ULN	>20.0 x ULN	_
Bicarbonate, serum-low	Bicarbonate, serum-low	<lln 16="" l<="" mmol="" td="" –=""><td><16 – 11 mmol/L</td><td><11 – 8 mmol/L</td><td><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	n AE, but may be a manifest	ation of liver dysfunction/fail	ure or elevated bilirubin. If ja	aundice is associated with ele	evated bilirubin, grade bilirub	oin.
Calcium, serum-low (hypocalcemia)	Hypocalcemia	<lln 8.0="" dl<br="" mg="" –=""><lln 2.0="" l<="" mmol="" td="" –=""><td><8.0 – 7.0 mg/dL <2.0 – 1.75 mmol/L</td><td><7.0 – 6.0 mg/dL <1.75 – 1.5 mmol/L</td><td><6.0 mg/dL <1.5 mmol/L</td><td>Death</td></lln></lln>	<8.0 – 7.0 mg/dL <2.0 – 1.75 mmol/L	<7.0 – 6.0 mg/dL <1.75 – 1.5 mmol/L	<6.0 mg/dL <1.5 mmol/L	Death
		lonized calcium: <lln 1.0="" l<="" mmol="" td="" –=""><td>lonized calcium: <1.0 – 0.9 mmol/L</td><td>lonized calcium: <0.9 – 0.8 mmol/L</td><td>lonized calcium: <0.8 mmol/L</td><td></td></lln>	lonized calcium: <1.0 – 0.9 mmol/L	lonized calcium: <0.9 – 0.8 mmol/L	lonized calcium: <0.8 mmol/L	

performed: Corrected Calcium (mg/dL) = Total Calcium (mg/dL) – 0.8 [Albumin (g/dL) – 4] 4. Alternatively, direct measurement of ionized calcium is the definitive method to diagnose metabolically relevant alterations in serum calcium.

⁴Crit Rev Clin Lab Sci 1984;21(1):51-97

		METABOL	IC/LABORATORY	<u> </u>	Pa	ge 2 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Calcium, serum-high (hypercalcemia)	Hypercalcemia	>ULN – 11.5 mg/dL >ULN – 2.9 mmol/L	>11.5 – 12.5 mg/dL >2.9 – 3.1 mmol/L	>12.5 – 13.5 mg/dL >3.1 – 3.4 mmol/L	>13.5 mg/dL >3.4 mmol/L	Death
		lonized calcium: >ULN – 1.5 mmol/L	lonized calcium: >1.5 – 1.6 mmol/L	lonized calcium: >1.6 – 1.8 mmol/L	lonized calcium: >1.8 mmol/L	
Cholesterol, serum-high (hypercholesteremia)	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
CPK (creatine phosphokinase)	СРК	>ULN – 2.5 x ULN	>2.5 x ULN – 5 x ULN	>5 x ULN – 10 x ULN	>10 x ULN	Death
Creatinine	Creatinine	>ULN – 1.5 x ULN	>1.5 – 3.0 x ULN	>3.0 – 6.0 x ULN	>6.0 x ULN	Death
Rемакк: Adjust to age-app	ropriate levels for pediatric p	patients.	'		'	•
ALSO CONSIDER: Glomerula	r filtration rate.					
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	_
Glomerular filtration rate	GFR	<75 – 50% LLN	<50 – 25% LLN	<25% LLN, chronic dialysis not indicated	Chronic dialysis or renal transplant indicated	Death
ALSO CONSIDER: Creatinine						
Glucose, serum-high (hyperglycemia)	Hyperglycemia	>ULN – 160 mg/dL >ULN – 8.9 mmol/L	>160 – 250 mg/dL >8.9 – 13.9 mmol/L	>250 – 500 mg/dL >13.9 – 27.8 mmol/L	>500 mg/dL >27.8 mmol/L or acidosis	Death
REMARK: Hyperglycemia, ir	n general, is defined as fastir	g unless otherwise specified	in protocol.			
Glucose, serum-low (hypoglycemia)	Hypoglycemia	<lln 55="" dl<br="" mg="" –=""><lln 3.0="" l<="" mmol="" td="" –=""><td><55 – 40 mg/dL <3.0 – 2.2 mmol/L</td><td><40 – 30 mg/dL <2.2 – 1.7 mmol/L</td><td><30 mg/dL <1.7 mmol/L</td><td>Death</td></lln></lln>	<55 – 40 mg/dL <3.0 – 2.2 mmol/L	<40 – 30 mg/dL <2.2 – 1.7 mmol/L	<30 mg/dL <1.7 mmol/L	Death
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><1.2 – 0.9 mg/dL <0.5 – 0.4 mmol/L</td><td><0.9 – 0.7 mg/dL <0.4 – 0.3 mmol/L</td><td><0.7 mg/dL <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
Phosphate, serum-low (hypophosphatemia)	Hypophosphatemia	<lln 2.5="" dl<br="" mg="" –=""><lln 0.8="" l<="" mmol="" td="" –=""><td><2.5 – 2.0 mg/dL <0.8 – 0.6 mmol/L</td><td><2.0 – 1.0 mg/dL <0.6 – 0.3 mmol/L</td><td><1.0 mg/dL <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

		METABO	LIC/LABORATOF	RY	Pa	ge 3 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Potassium, serum-low (hypokalemia)	Hypokalemia	<lln 3.0="" l<="" mmol="" td="" –=""><td>_</td><td><3.0 – 2.5 mmol/L</td><td><2.5 mmol/L</td><td>Death</td></lln>	_	<3.0 – 2.5 mmol/L	<2.5 mmol/L	Death
Proteinuria	Proteinuria	1+ or 0.15 – 1.0 g/24 hrs	2+ to 3+ or >1.0 – 3.5 g/24 hrs	4+ or >3.5 g/24 hrs	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><130 – 120 mmol/L</td><td><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: Creatinine	e; Potassium, serum-high (hy	perkalemia); Renal failure;	Tumor lysis syndrome.	·		
Metabolic/Laboratory – Other (Specify,)	Metabolic/Lab – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		MUSCULOSKE	LETAL/SOFT TIS	SUE	Pa	ge 1 of 4
				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
	n the diagnosis of arthritis (e.g nmatory in character) is grade			nmation of joints) is made. Art	thralgia (sign or symptom of	pain in a
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 degrees	of rotation is required for reve	rsing a car; 60 – 65 degrees	of flexion is required to tie sh	oes.	'	
Exostosis	Exostosis	Asymptomatic	Involving multiple sites; pain or interfering with function	Excision indicated	Progression to malignancy (i.e., chondrosarcoma)	Death
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 (in	coordination); Muscle weakne	ess, generalized or specific ar	ea (not due to neuropathy) –	Select.		
Extremity-upper (function)	Extremity-upper (function)	Able to perform most household or work activities with affected limb	Able to perform most household or work activities with compensation from unaffected limb	Interfering with ADL	Disabling; no function of affected limb	_
Fibrosis-cosmesis	Fibrosis-cosmesis	Visible only on close examination	Readily apparent but not disfiguring	Significant disfigurement; operative intervention indicated if patient chooses	_	_

		MUSCULOSKE	LETAL/SOFT TIS	SUE	Pa	ge 2 of 4
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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/sensory.	fibrosis (skin and subcutaned	ous tissue); Muscle weaknes	s, generalized or specific area	a (not due to neuropathy) – S	Select; Neuropathy: motor; Ne	europathy:
Fracture	Fracture	Asymptomatic, radiographic findings only (e.g., asymptomatic rib fracture on plain x-ray, pelvic insufficiency fracture on MRI, etc.)	Symptomatic but non- displaced; 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: Arthritis (no	on-septic).	'	'	'	'	•
Joint-function ⁵	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: Arthritis (no	on-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
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	_	_

⁵ Adapted from the *International SFTR Method of Measuring and Recording Joint Motion, International Standard Orthopedic Measurements (ISOM),* Jon J. Gerhardt and Otto A. Russee, Bern, Switzerland, Han Huber 9 Publisher), 1975.

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		MUSCULOSKE	LETAL/SOFT TIS	SUE	Pa	ge 3 of 4
				Grade		
Adverse Event	Short Name	1	2	3	4	5
				object)		
Muscle weakness, generalized or specific area (not due to neuropathy) – Select:	Muscle weakness – Select	Asymptomatic, weakness on physical exam	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL	Life-threatening; disabling	Death
 Extraocular Extremity-lower Extremity-upper Facial Left-sided Ocular Pelvic Right-sided Trunk Whole body/generalized 	ed					
ALSO CONSIDER: Fatigue (a	sthenia, lethargy, malaise).					
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	_
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 n	nuscle damage (i.e., elevated	CPK).				
ALSO CONSIDER: CPK (crea	tine phosphokinase); Pain – s	Select.				
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

		MUSCULOSKE	LETAL/SOFT TIS	SUE	Pa	ge 4 of 4		
				Grade				
Adverse Event	Short Name	1	2	3	4	5		
Osteoporosis ⁶	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	_	_		
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-	infectious is graded as Infecti	on – Select in the INFECTION	N CATEGORY.					
NAVIGATION NOTE: Wound	non-infectious is graded as W	ound complication, non-infec	tious in the DERMATOLOGY	Y/SKIN CATEGORY.				
Musculoskeletal/Soft Tissue – Other (Specify,)	Musculoskeletal – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death		

⁶ "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

		NE	UROLOGY		Pa	ge 1 of 5
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: ADD (A	ttention Deficit Disorder) is g	raded as Cognitive disturbanc	e.			
NAVIGATION NOTE: Aphasia	a, receptive and/or expressive	e, is graded as Speech impair	ment (e.g., dysphasia or apha	asia).		
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 neutrophils (ANC <1.0 x 1	the absence of neutropenia, 09/L) – Select; Infection with	where neutropenia is defined normal ANC or Grade 1 or 2 i	as ANC <1.0 x 10 ⁹ /L); Infection eutrophils – <i>Select</i> ; Infection	on (documented clinically or note that with unknown ANC – Select	microbiologically) with Grade t; Pain – <i>Select</i> ; Vomiting.	3 or 4
Ataxia (incoordination)	Ataxia	Asymptomatic	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL; mechanical assistance indicated	Disabling	Death
REMARK: Ataxia (incoordin	ation) refers to the conseque	ence of medical or operative in	tervention.	'	'	1
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
NAVIGATION NOTE: CNS he	emorrhage/bleeding is graded	d as Hemorrhage, CNS in the	HEMORRHAGE/BLEEDING	CATEGORY.		
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
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

		NE	UROLOGY		Pa	ge 2 of 5
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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 graded as	Cognitive disturbance.				
NAVIGATION NOTE: Crania	neuropathy is graded as Neu	ıropathy-cranial – Select.				
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	es disequilibrium, lightheaded	ness, and vertigo.	'		'	1
ALSO CONSIDER: Neuropa	thy: cranial – <i>Select</i> ; Syncope	e (fainting).				
Navigation Note: Dyspha	asia, receptive and/or express	ive, is graded as Speech impa	airment (e.g., dysphasia or a	phasia).		
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		ziness; Memory impairment; M	lental status; Mood alteration	n – S <i>elect</i> ; Psychosis (halluci	nations/delusions);	1
Extrapyramidal/ involuntary movement/ restlessness	Involuntary movement	Mild involuntary movements not interfering with function	Moderate involuntary movements interfering with function, but not interfering with ADL	Severe involuntary movements or torticollis interfering with ADL	Disabling	Death
NAVIGATION NOTE: Heada PAIN CATEGORY.	che/neuropathic pain (e.g., ja	w pain, neurologic pain, phant	om limb pain, post-infectious	neuralgia, or painful neuropa	athies) is graded as Pain – Se	elect in the
Hydrocephalus	Hydrocephalus	Asymptomatic, radiographic findings only	Mild to moderate symptoms not interfering with ADL	Severe symptoms or neurological deficit interfering with ADL	Disabling	Death
Irritability (children <3 years of age)	Irritability	Mild; easily consolable	Moderate; requiring increased attention	Severe; inconsolable	_	_
Laryngeal nerve dysfunction	Laryngeal nerve	Asymptomatic, weakness on clinical examination/testing only	Symptomatic, but not interfering with ADL; intervention not indicated	Symptomatic, interfering with ADL; intervention indicated (e.g., thyroplasty, vocal cord injection)	Life-threatening; tracheostomy indicated	Death

		NE	UROLOGY		Pa	ge 3 of 5
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Leak, cerebrospinal fluid (CSF)	CSF leak	Transient headache; postural care indicated	Symptomatic, not interfering with ADL; blood patch indicated	Symptomatic, interfering with ADL; operative intervention indicated	Life-threatening; disabling	Death
REMARK: Leak, cerebrospir	nal fluid (CSF) may be used for	or CSF leak associated with o	pperation and persisting >72	hours.		
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)		_
REMARK: Leukoencephalop which are areas that becor		process, specifically NOT as	sociated with necrosis. Leuk	oencephalopathy (radiograph	nic findings) does not include	lacunas,
Memory impairment	Memory impairment	Memory impairment not interfering with function	Memory impairment interfering with function, but not interfering with ADL	Memory impairment interfering with ADL	Amnesia	_
Mental status ⁷	Mental status	_	1 – 3 point below age and educational norm in Folstein Mini-Mental Status Exam (MMSE)	>3 point below age and educational norm in Folstein MMSE	_	_
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
Myelitis	Myelitis	Asymptomatic, mild signs (e.g., Babinski's or Lhermitte's sign)	Weakness or sensory loss not interfering with ADL	Weakness or sensory loss interfering with ADL	Disabling	Death

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⁷ Folstein MF, Folstein, SE and McHugh PR (1975) "Mini-Mental State: A Practical Method for Grading the State of Patients for the Clinician," *Journal of Psychiatric Research*, 12: 189-198

		NE	UROLOGY		Paç	ge 4 of 5
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Neuropat	thic pain is graded as Pain –	Select in the PAIN CATEGO	RY.			
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 IV Downward, inw CN V Motor-jaw mus CN VI Lateral deviation CN VII Motor-face; Se CN VIII Hearing and ba 	nsory-taste alance : Sensory-ear, pharynx, tong harynx, larynx					
Neuropathy: motor	Neuropathy-motor	Asymptomatic, weakness on exam/testing only	Symptomatic weakness interfering with function, but not interfering with ADL	Weakness interfering with ADL; bracing or assistance to walk (e.g., cane or walker) indicated	Life-threatening; disabling (e.g., paralysis)	Death
REMARK: Cranial nerve mot	or neuropathy is graded as I	Neuropathy: cranial – Select.		'	'	•
ALSO CONSIDER: Laryngeal	nerve dysfunction; Phrenic r	nerve dysfunction.				
Neuropathy: sensory	Neuropathy-sensory	Asymptomatic; loss of deep tendon reflexes or paresthesia (including tingling) but not interfering with function	Sensory alteration or paresthesia (including tingling), interfering with function, but not interfering with ADL	Sensory alteration or paresthesia interfering with ADL	Disabling	Death
REMARK: Cranial nerve sens	sory neuropathy is graded a	s Neuropathy: cranial – Selec	et.			
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
Phrenic nerve dysfunction	Phrenic nerve	Asymptomatic weakness on exam/testing only	Symptomatic but not interfering with ADL; intervention not indicated	Significant dysfunction; intervention indicated (e.g., diaphragmatic plication)	Life-threatening respiratory compromise; mechanical ventilation indicated	Death
Psychosis (hallucinations/delusions)	Psychosis	_	Transient episode	Interfering with ADL; medication, supervision	Harmful to others or self; life-threatening	Death

		NE	JROLOGY		Pa	ge 5 of 5
				Grade		
Adverse Event	Short Name	1	2	3	4	5
				or restraints indicated	consequences	
Pyramidal tract dysfunction (e.g., ↑ tone, hyperreflexia, positive Babinski, ↓ fine motor coordination)	Pyramidal tract dysfunction	Asymptomatic, abnormality on exam or testing only	Symptomatic; interfering with function but not interfering with ADL	Interfering with ADL	Disabling; paralysis	Death
Seizure	Seizure	_	One brief generalized seizure; seizure(s) well controlled by anticonvulsants or infrequent focal motor seizures not interfering with ADL	Seizures in which consciousness is altered; poorly controlled seizure disorder, with breakthrough generalized seizures despite medical intervention	Seizures of any kind which are prolonged, repetitive, or difficult to control (e.g., status epilepticus, intractable epilepsy)	Death
Somnolence/depressed level of consciousness	Somnolence	_	Somnolence or sedation interfering with function, but not interfering with ADL	Obtundation or stupor; difficult to arouse; interfering with ADL	Coma	Death
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	
REMARK: Speech impairme	ent refers to a primary CNS pr	ocess, not neuropathy or end	organ dysfunction.	'	'	'
ALSO CONSIDER: Laryngeal	nerve dysfunction; Voice cha	inges/dysarthria (e.g., hoarse	ness, loss, or alteration in vo	ice, laryngitis).		
Syncope (fainting)	Syncope (fainting)	_	_	Present	Life-threatening consequences	Death
ALSO CONSIDER: CNS cere episode; Ventricular arrhyt	brovascular ischemia; Conduction	ction abnormality/atrioventric	ular heart block – <i>Select</i> ; Diz	ziness; Supraventricular and	nodal arrhythmia – Select; V	asovagal
Navigation Note: Taste al	teration (CN VII, IX) is graded	as Taste alteration (dysgeus	sia) in the GASTROINTESTIN	NAL CATEGORY.		
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

		OCUI	_AR/VISUAL		Pa	ige 1 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Cataract	Cataract	Asymptomatic, detected on exam only	Symptomatic, with moderate decrease in visual acuity (20/40 or better); decreased visual function correctable with glasses	Symptomatic with marked decrease in visual acuity (worse than 20/40); operative intervention indicated (e.g., cataract surgery)	_	_
Dry eye syndrome	Dry eye	Mild, intervention not indicated	Symptomatic, interfering with function but not interfering with ADL; medical intervention indicated	Symptomatic or decrease in visual acuity interfering with ADL; operative intervention indicated	_	_
Eyelid dysfunction	Eyelid dysfunction	Asymptomatic	Symptomatic, interfering with function but not ADL; requiring topical agents or epilation	Symptomatic; interfering with ADL; surgical intervention indicated	_	_
•		osis, ectropion, entropion, eryth	ema, madarosis, symblephar	on, telangiectasis, thickening	, and trichiasis.	•
ALSO CONSIDER: Neuropa	athy: cranial – <i>Select.</i>		1	1		T
Glaucoma	Glaucoma	Elevated intraocular pressure (EIOP) with single topical agent for intervention; no visual field deficit	EIOP causing early visual field deficit (i.e., nasal step or arcuate deficit); multiple topical or oral agents indicated	EIOP causing marked visual field deficits (i.e., involving both superior and inferior visual fields); operative intervention indicated	EIOP resulting in blindness (20/200 or worse); enucleation indicated	_
Keratitis (corneal inflammation/corneal ulceration)	Keratitis	Abnormal ophthalmologic changes only; intervention not indicated	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL; operative intervention indicated	Perforation or blindness (20/200 or worse)	_
Navigation Note: Ocular CATEGORY.	r muscle weakness is graded	l as Muscle weakness, generaliz	zed or specific area (not due	to neuropathy) – Select in the	e MUSCULOSKELETAL/SO	FT TISSUE
Night blindness (nyctalopia)	Nyctalopia	Symptomatic, not interfering with function	Symptomatic and interfering with function but not interfering with ADL	Symptomatic and interfering with ADL	Disabling	_

		OCUI	LAR/VISUAL			Page 2 of 3
				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: Neuropati	hy: cranial – <i>Select</i> ; Ophthaln	noplegia/diplopia (double visio	on).	'	'	l
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 di	isease includes conjunctivitis,	keratoconjunctivitis sicca, ch	emosis, keratinization, and p	alpebral conjunctival epithelia	al metaplasia.	
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: Neuropati	hy: cranial – Select.		'	'	'	'
Optic disc edema	Optic disc edema	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)	_
ALSO CONSIDER: Neuropati		<u> </u>	T	T	T	
Proptosis/enophthalmos	Proptosis/enophthalmos	Asymptomatic, intervention not indicated	Symptomatic and interfering with function, but not interfering with ADL	Symptomatic and interfering with ADL	_	_
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	Asymptomatic	Symptomatic with moderate decrease in visual acuity (20/40 or better)	Symptomatic with marked decrease in visual acuity (worse than 20/40)	Blindness (20/200 or worse)	

		ocui	_AR/VISUAL		Pa	age 3 of 3
			Grade			
Adverse Event	Short Name	1	2	3	4	5
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	_
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

			PAIN			Page 1 of 1
				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	_
		PAI	N – SELECT			
AUDITORY/EAR - External ear - Middle ear CARDIOVASCULAR - Cardiac/heart - Pericardium DERMATOLOGY/SKIN - Face - Lip - Oral-gums - Scalp - Skin GASTROINTESTINAL - Abdomen NOS - Anus - Dental/teeth/peridontal - Esophagus - Oral cavity - Peritoneum - Rectum - Stomach GENERAL - Pain NOS		HEPATOBILIARY/PANCR - Gallbladder - Liver LYMPHATIC - Lymph node MUSCULOSKELETAL - Back - Bone - Buttock - Extremity-limb - Intestine - Joint - Muscle - Neck - Phantom (pain associal NEUROLOGY - Head/headache - Neuralgia/peripheral nocular OCULAR - Eye PULMONARY/UPPER RE - Chest wall	ated with missing limb) erve	PULMONARY/UPPER RE - Larynx - Pleura - Sinus - Throat/pharynx/larynx RENAL/GENITOURINAR - Bladder - Kidney SEXUAL/REPRODUCTIV - Breast - Ovulatory - Pelvis - Penis - Perineum - Prostate - Scrotum - Testicle - Urethra - Uterus - Vagina	K Y	

		PULMONARY/U	JPPER RESPIRAT	ORY	Pa	ge 1 of 4
				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: Dyspnea	(shortness of breath); Hypox	kia; Pneumonitis/pulmonary in	filtrates.	'	'	•
Aspiration	Aspiration	Asymptomatic ("silent aspiration"); endoscopy or radiographic (e.g., barium swallow) findings	Symptomatic (e.g., altered eating habits, coughing or choking episodes consistent with aspiration); medical intervention indicated (e.g., antibiotics, suction or oxygen)	Clinical or radiographic signs of pneumonia or pneumonitis; unable to aliment orally	Life-threatening (e.g., aspiration pneumonia or pneumonitis)	Death
		crobiologically) with Grade 3 o geal nerve dysfunction; Neurop			normal ANC or Grade 1 or 2	neutrophils
Atelectasis	Atelectasis	Asymptomatic	Symptomatic (e.g., dyspnea, cough), medical intervention indicated (e.g., bronchoscopic suctioning, chest physiotherapy, suctioning)	Operative (e.g., stent, laser) intervention indicated	Life-threatening respiratory compromise	Death
neutrophils (ANC <1.0 x 1	09/L) - Select; Infection with	(ARDS); Cough; Dyspnea (sh n normal ANC or Grade 1 or 2 fibrosis (radiographic changes	neutrophils - Select; Infection			
Bronchospasm, wheezing	Bronchospasm	Asymptomatic	Symptomatic not interfering with function	Symptomatic interfering with function	Life-threatening	Death
ALSO CONSIDER: Allergic re	eaction/hypersensitivity (inclu	uding drug fever); Dyspnea (sh	nortness of breath).	'	'	
Carbon monoxide diffusion capacity (DL _{CO})	DL _{co}	90 – 75% of predicted value	<75 – 50% of predicted value	<50 – 25% of predicted value	<25% of predicted value	Death
ALSO CONSIDER: Hypoxia;	Pneumonitis/pulmonary infilt	rates; Pulmonary fibrosis (rad	iographic changes).	'	'	'
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		_

		PULMONARY/L	IPPER RESPIRAT	ORY	Pa	ge 2 of 4
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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; N	Neuropathy: motor; Pneumon	itis/pulmonary infiltrates; Pulr	monary fibrosis (radiographic	changes).		
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 indicated	Death
ALSO CONSIDER: Allergic re	action/hypersensitivity (includ	ing drug fever).				
FEV ₁	FEV ₁	90 – 75% of predicted value	<75 – 50% of predicted value	<50 – 25% of predicted value	<25% of predicted	Death
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
the abnormal process is be		ample, a tracheo-esophagea			r a fistula should be the site fi sophageal cancer should be g	
NAVIGATION NOTE: Hemopty	ysis is graded as Hemorrhage	e, pulmonary/upper respirator	y – Select in the HEMORRH	AGE/BLEEDING CATEGOR	Υ.	
Hiccoughs (hiccups, singultus)	Hiccoughs	Symptomatic, intervention not indicated	Symptomatic, intervention indicated	Symptomatic, significantly interfering with sleep or ADL	_	_
Нурохіа	Нурохіа	_	Decreased O ₂ saturation with exercise (e.g., pulse oximeter <88%); intermittent supplemental oxygen	Decreased O ₂ saturation at rest; continuous oxygen indicated	Life-threatening; intubation or ventilation indicated	Death

		PULMONARY/U	IPPER RESPIRAT	TORY	Pa	ge 3 of 4
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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 (- <i>Select;</i> Infection with unl		robiologically) with Grade 3 or	4 neutrophils (ANC <1.0 x 1	10 ⁹ /L) – <i>Select;</i> Infection with	normal ANC or Grade 1 or 2	neutrophil
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	s; Cough; Dyspnea (shortnes	ss of breath); Hypoxia; Pneum	ionitis/pulmonary infiltrates; I	Pulmonary fibrosis (radiograp	hic changes).	!
NAVIGATION NOTE: Pleuritic	pain is graded as Pain – Se	lect in the PAIN CATEGORY.				
Pneumonitis/pulmonary infiltrates	Pneumonitis	Asymptomatic, radiographic findings only	Symptomatic, not interfering with ADL	Symptomatic, interfering with ADL; O ₂ indicated	Life-threatening; ventilatory support indicated	Death
	0 ⁹ /L) – <i>Select;</i> Infection with	ARDS); Cough; Dyspnea (shonormal ANC or Grade 1 or 2 n				
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
Prolonged chest tube drainage or air leak after oulmonary 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

		PULMONARY/U	JPPER RESPIRAT	ORY	Pag	ge 4 of 4
				Grade		
Adverse Event	Short Name	1	2	3	4	5
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: Pulmona CATEGORY.	ry embolism is graded as G	rade 4 either as Thrombosis/e	embolism (vascular access-re	lated) or Thrombosis/thromb	us/embolism in the VASCUL/	AR
Pulmonary fibrosis (radiographic changes)	Pulmonary fibrosis	Minimal radiographic findings (or patchy or bibasilar changes) with estimated radiographic proportion of total lung volume that is fibrotic of <25%	Patchy or bi-basilar changes with estimated radiographic proportion of total lung volume that is fibrotic of 25 – <50%	Dense or widespread infiltrates/consolidation with estimated radiographic proportion of total lung volume that is fibrotic of 50 – <75%	Estimated radiographic proportion of total lung volume that is fibrotic is ≥75%; honeycombing	Death
neutrophils (ANC <1.0 x 10	⁹ /L) – Select; Infection with	(ARDS); Cough; Dyspnea (sho normal ANC or Grade 1 or 2 r on is graded as Laryngeal ner	neutrophils – Select; Infection	with unknown ANC - Select.	ly or microbiologically) with G	Grade 3 or
Vital capacity	Vital capacity	90 – 75% of predicted value	<75 – 50% of predicted value	<50 – 25% of predicted value	<25% of predicted value	Death
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
		impairment (e.g., dysphasia o		Covere	Life threatening:	Dooth
Pulmonary/Upper Respiratory – Other (Specify, <u></u>)	Pulmonary – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		RENAL/G	ENITOURINARY		Paç	ge 1 of 3
				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
	documented clinically or mi known ANC – <i>Select</i> ; Pain -	crobiologically) with Grade 3 or – Select.	4 neutrophils (ANC <1.0 x 10	09/L) – Select; Infection with	normal ANC or Grade 1 or 2	neutrophils
Fistula, GU - Select: - Bladder - Genital tract-female - Kidney - Ureter - Urethra - Uterus - Vagina	Fistula, GU – Select	Asymptomatic, radiographic findings only	Symptomatic; noninvasive intervention indicated	Symptomatic interfering with ADL; invasive intervention indicated	Life-threatening consequences; operative intervention requiring partial or full organ resection; permanent urinary diversion	Death
REMARK: A fistula is defined the abnormal process is be	d as an abnormal communi elieved to have originated.	cation between two body cavitie	es, potential spaces, and/or the	he skin. The site indicated for	a fistula should be the site fr	om which
Incontinence, urinary	Incontinence, urinary	Occasional (e.g., with coughing, sneezing, etc.), pads not indicated	Spontaneous, pads indicated	Interfering with ADL; intervention indicated (e.g., clamp, collagen injections)	Operative intervention indicated (e.g., cystectomy or permanent urinary diversion)	_
Leak (including anastomotic), GU - Select: - Bladder - Fallopian tube - Kidney - Spermatic cord - Stoma - Ureter - Urethra - Uterus - Vagina - Vas deferens	Leak, GU – Select	Asymptomatic, radiographic findings only	Symptomatic; medical intervention indicated	Symptomatic, interfering with GU function; invasive or endoscopic intervention indicated	Life-threatening	Death

		RENAL/G	ENITOURINARY		Pa	ge 2 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Obstruction, GU - Select: - Bladder - Fallopian tube - Prostate - Spermatic cord - Stoma - Testes - Ureter - Urethra - Uterus - Vagina - Vas deferens	Obstruction, GU – Select	Asymptomatic, radiographic or endoscopic findings only	Symptomatic but no hydronephrosis, sepsis or renal dysfunction; dilation or endoscopic repair or stent placement indicated	Symptomatic and altered organ function (e.g., sepsis or hydronephrosis, or renal dysfunction); operative intervention indicated	Life-threatening consequences; organ failure or operative intervention requiring complete organ resection indicated	Death
NAVIGATION NOTE: Operative	ve injury is graded as Intra-ope	erative injury – Select Organ	or Structure in the SURGER	Y/INTRA-OPERATIVE INJUI	RY CATEGORY.	"
Perforation, GU - Select: - Bladder - Fallopian tube - Kidney - Ovary - Prostate - Spermatic cord - Stoma - Testes - Ureter - Urethra - Vagina - Vas deferens	Perforation, GU – Select	Asymptomatic radiographic findings only	Symptomatic, associated with altered renal/GU function	Symptomatic, operative intervention indicated	Life-threatening consequences or organ failure; operative intervention requiring organ resection indicated	Death
Prolapse of stoma, GU	Prolapse stoma, GU	Asymptomatic; special intervention, extraordinary care not indicated	Extraordinary local care or maintenance; minor revision under local anesthesia indicated	Dysfunctional stoma; operative intervention or major stomal revision indicated	Life-threatening consequences	Death
	nplications may be graded as Fing anastomotic), GU – Select.	Fistula, GU – <i>Select</i> ; Leak (in	cluding anastomotic), GU – S	Select; Obstruction, GU – Se	lect; Perforation, GU – Select	t ;
Renal failure ALSO CONSIDER: Glomerula	Renal failure	_	_	Chronic dialysis not indicated	Chronic dialysis or renal transplant indicated	Death

		RENAL/G	ENITOURINARY		Paç	ge 3 of 3
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Stricture/stenosis (including anastomotic), GU - Select: - Bladder - Fallopian tube - Prostate - Spermatic cord - Stoma - Testes - Ureter - Urethra - Uterus - Vagina - Vas deferens	Stricture, anastomotic, GU – Select	Asymptomatic, radiographic or endoscopic findings only	Symptomatic but no hydronephrosis, sepsis or renal dysfunction; dilation or endoscopic repair or stent placement indicated	Symptomatic and altered organ function (e.g., sepsis or hydronephrosis, or renal dysfunction); operative intervention indicated	Life-threatening consequences; organ failure or operative intervention requiring organ resection indicated	Death
ALSO CONSIDER: Obstructio	n, GU – Select.				'	'
Urinary electrolyte wasting (e.g., Fanconi's syndrome, renal tubular acidosis)	Urinary electrolyte wasting	Asymptomatic, intervention not indicated	Mild, reversible and manageable with replacement	Irreversible, requiring continued replacement	_	_
ALSO CONSIDER: Acidosis (1	metabolic or respiratory); Bica	irbonate, serum-low; Calcium	, serum-low (hypocalcemia);	Phosphate, serum-low (hypo	ophosphatemia).	!
Urinary frequency/urgency	Urinary frequency	Increase in frequency or nocturia up to 2 x normal; enuresis	Increase >2 x normal but <hourly< td=""><td>≥1 x/hr; urgency; catheter indicated</td><td>_</td><td>_</td></hourly<>	≥1 x/hr; urgency; catheter indicated	_	_
Urinary retention (including neurogenic bladder)	Urinary retention	Hesitancy or dribbling, no significant residual urine; retention occurring during the immediate postoperative period	Hesitancy requiring medication; or operative bladder atony requiring indwelling catheter beyond immediate postoperative period but for <6 weeks	More than daily catheterization indicated; urological intervention indicated (e.g., TURP, suprapubic tube, urethrotomy)	Life-threatening consequences; organ failure (e.g., bladder rupture); operative intervention requiring organ resection indicated	Death
REMARK: The etiology of re	tention (if known) is graded a	s Obstruction, GU – Select; S	Stricture/stenosis (including a	nastomotic), GU – <i>Select</i> .	1	1
ALSO CONSIDER: Obstructio	n, GU – <i>Select</i> ; Stricture/sten	osis (including anastomotic),	GU – Select.			
Urine color change	Urine color change	Present	_	_	_	_
REMARK: Urine color refers	to change that is not related	to other dietary or physiologic	cause (e.g., bilirubin, conce	ntrated urine, and hematuria).	
Renal/Genitourinary – Other (Specify,)	Renal – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

SECONDARY MALIGNANCY						ge 1 of 1
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Secondary Malignancy – possibly related to cancer treatment (Specify,)	Secondary Malignancy (possibly related to cancer treatment)	_	_	Non-life-threatening basal or squamous cell carcinoma of the skin	Solid tumor, leukemia or lymphoma	Death

REMARK: Secondary malignancy excludes metastasis from initial primary. Any malignancy possibly related to cancer treatment (including AML/MDS) should be reported via the routine reporting mechanisms outlined in each protocol. Important: Secondary Malignancy is an exception to NCI Expedited Adverse Event Reporting Guidelines. Secondary Malignancy is "Grade 4, present" but NCI does not require AdEERS Expedited Reporting for any (related or unrelated to treatment) Secondary Malignancy. A diagnosis of AML/MDS following treatment with an NCI-sponsored investigational agent is to be reported using the form available from the CTEP Web site at http://ctep.cancer.gov. Cancers not suspected of being treatment-related are not to be reported here.

		SEXUAL/REPR	ODUCTIVE FUNC	TION		Page 1 of 2
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Breast function/lactation	Breast function	Mammary abnormality, not functionally significant	Mammary abnormality, functionally significant	_	_	_
Breast nipple/areolar deformity	Nipple/areolar	Limited areolar asymmetry with no change in nipple/areolar projection	Asymmetry of nipple areolar complex with slight deviation in nipple projection	Marked deviation of nipple projection	_	_
Breast volume/hypoplasia	Breast	Minimal asymmetry; minimal hypoplasia	Asymmetry exists, ≤1/3 of the breast volume; moderate hypoplasia	Asymmetry exists, >1/3 of the breast volume; severe hypoplasia	_	_
REMARK: Breast volume is a	referenced with both arms s	traight overhead.	•	'	'	,
NAVIGATION NOTE: Dysmeno	orrhea is graded as Pain – S	Select in the PAIN CATEGOR	Υ.			
Navigation Note: Dyspare	unia is graded as Pain – Se	lect in the PAIN CATEGORY.				
NAVIGATION NOTE: Dysuria ((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	_	_
Ejaculatory dysfunction	Ejaculatory dysfunction	Diminished ejaculation	Anejaculation or retrograde ejaculation	_	_	_
NAVIGATION NOTE: Feminiza	ation of male is graded in the	ENDOCRINE CATEGORY.				
Gynecomastia	Gynecomastia	_	Asymptomatic breast enlargement	Symptomatic breast enlargement; intervention indicated	_	-
ALSO CONSIDER: Pain - Sel	ect.					
Infertility/sterility	Infertility/sterility	_	Male: oligospermia/low sperm count	Male: sterile/azoospermia	_	_
			Female: diminished fertility/ovulation	Female: infertile/ anovulatory		
Irregular menses (change from baseline)	Irregular menses	1 – 3 months without menses	>3 – 6 months without menses but continuing menstrual cycles	Persistent amenorrhea for >6 months	_	_

		SEXUAL/REPR	ODUCTIVE FUNC	TION	Pa	nge 2 of 2
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Libido	Libido	Decrease in interest but not affecting relationship; intervention not indicated	Decrease in interest and adversely affecting relationship; intervention indicated	_	_	_
NAVIGATION NOTE: Masculin	nization of female is graded in	the ENDOCRINE CATEGO	RY.			
Orgasmic dysfunction	Orgasmic function	Transient decrease	Decrease in orgasmic response requiring intervention	Complete inability of orgasmic response; not responding to intervention	_	_
NAVIGATION NOTE: Pelvic pa	ain is graded as Pain – <i>Selec</i> i	in the PAIN CATEGORY.				
NAVIGATION NOTE: Ulcers o	f the labia or perineum are gr	aded as Ulceration in DERM	ATOLOGY/SKIN CATEGOR	Υ.		
Vaginal discharge (non-infectious)	Vaginal discharge	Mild	Moderate to heavy; pad use indicated	_	_	_
Vaginal dryness	Vaginal dryness	Mild	Interfering with sexual function; dyspareunia; intervention indicated	_	_	_
ALSO CONSIDER: Pain – Se	lect.		-5			·
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	_
Vaginal stenosis/length	Vaginal stenosis	Vaginal narrowing and/or shortening not interfering with function	Vaginal narrowing and/or shortening interfering with function	Complete obliteration; not surgically correctable	_	_
Vaginitis (not due to infection)	Vaginitis	Mild, intervention not indicated	Moderate, intervention indicated	Severe, not relieved with treatment; ulceration, but operative intervention not indicated	Ulceration and operative intervention indicated	_
Sexual/Reproductive Function – Other (Specify,)	Sexual – Other (Specify)	Mild	Moderate	Severe	Disabling	Death

		SURGERY/INTR	A-OPERATIVE IN	JURY	Pa	ge 1 of 2
				Grade		
Adverse Event	Short Name	1	2	3	4	5
NAVIGATION NOTE: Intra-ope CATEGORY.	erative hemorrhage is graded	as Hemorrhage/bleeding ass	sociated with surgery, intra-op	perative or postoperative in the	ne HEMORRHAGE/BLEEDIN	IG
Intra-operative injury – Select Organ or Structure	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	_
'Select' AEs appear at the end of the CATEGORY.						
must be performed becaus	are defined as significant, una se of a change in the operative ast also be recorded and grade	e plan based on intra-operativ	e findings. Any sequelae res			
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	_
	ury – Other (Specify,) is to crative injury that result in an a					sequelae

SURGERY/INTRA-OPERATIVE INJURY - SELECT

Page 2 of 2

AUDITORY/EAR

- Inner ear
- Middle ear
- Outer ear NOS
- Outer ear-Pinna

CARDIOVASCULAR

- Artery-aorta
- Artery-carotid
- Artery-cerebral
- Artery-extremity (lower)Artery-extremity (upper)
- Artery-hepatic
- Artery-major visceral artery
- Artery-pulmonary
- Artery NOS
- Heart
- Spleen
- Vein-extremity (lower)
- Vein-extremity (upper)
- Vein-hepatic
- Vein-inferior vena cava
- Vein-jugular
- Vein-major visceral vein
- Vein-portal vein
- Vein-pulmonary
- Vein-superior vena cava
- Vein NOS

DERMATOLOGY/SKIN

- Breast
- Nails
- Skin

ENDOCRINE

- Adrenal gland
- Parathyroid
- Pituitary

ENDOCRINE (continued)

- Thyroid

HEAD AND NECK

- Gingiva
- Larynx
- Lip/perioral area
- Face NOS
- Nasal cavity
- Nasopharynx
- Neck NOS
- Nose
- Oral cavity NOS
- Parotid gland
- Pharynx
- Salivary duct
- Salivary gland
- Sinus
- Teeth
- Tongue
- Upper aerodigestive NOS

GASTROINTESTINAL

- Abdomen NOS
- Anal sphincter
- Anus
- Appendix
- Cecum
- Colon
- Duodenum
- Esophagus
- Ileum
- Jejunum
- Oral
- Peritoneal cavity
- Rectum
- Small bowel NOS

GASTROINTESTINAL (continued)

- Stoma (GI)
- Stomach

HEPATOBILIARY/ PANCREAS

- Biliary tree-common bile duct
- Biliary tree-common hepatic duct
- Biliary tree-left hepatic duct
- Biliary tree-right hepatic duct
- Biliary tree NOS
- Gallbladder
- Liver
- Pancreas
- Pancreatic duct

MUSCULOSKELETAL

- Bone
- Cartilage
- Extremity-lower
- Extremity-upper
- Joint
- Ligament
- Muscle
- Soft tissue NOS
- Tendon

NEUROLOGY

- Brain
- Meninges
- Spinal cord

NERVES:

- Brachial plexus
- CN I (olfactory)
- CN II (optic)
- CN III (oculomotor)
- CN IV (trochlear)

NEUROLOGY (continued)

NERVES:

- CN V (trigeminal) motor
- CN V (trigeminal) sensory
- CN VI (abducens)
- CN VII (facial) motor-face
- CN VII (facial) sensorytaste
- CN VIII (vestibulocochlear)
- CN IX (glossopharyngeal) motor pharynx
- CN IX (glossopharyngeal) sensory ear-pharynxtongue
- CN X (vagus)
- CN XI (spinal accessory)
- CN XII (hypoglossal)
- Cranial nerve or branch NOS
- Lingual
- Lung thoracic
- Peripheral motor NOS
- Peripheral sensory NOS
- Recurrent larvngeal
- Sacral plexus
- Sciatic
- Thoracodorsal

OCULAR

- Coniunctiva
- ConjuntCornea
- Eve NOS
- Lens
- Retina

PULMONARY/UPPER RESPIRATORY

- Bronchus
- Lung
- Mediastinum
- Pleura
- Thoracic duct
- Trachea
- Upper airway NOS

RENAL/GENITOURINARY

- Bladder
- Cervix
- Fallopian tube
- Kidney
- Ovarv
- Pelvis NOS
- Penis
- Prostate
- Scrotum
- Testis
- UreterUrethra
- Urinary conduit
- Urinary tract NOS
- Uterus
- Vagina
- Vulva

		SYI	NDROMES		Pa	age 1 of 2
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Navigation Note: Acute va	scular leak syndrome is grad	ed in the VASCULAR CATE	GORY.			·
NAVIGATION NOTE: Adrenal	insufficiency is graded in the	ENDOCRINE CATEGORY.				
NAVIGATION NOTE: Adult Re	spiratory Distress Syndrome	(ARDS) is graded in the PUL	MONARY/UPPER RESPIRA	ATORY CATEGORY.		
Alcohol intolerance syndrome (antabuse-like syndrome)	Alcohol intolerance syndrome	_	_	Present	_	Death
REMARK: An antabuse-like	syndrome occurs with some r	new anti-androgens (e.g., nilu	ıtamide) when patient also co	onsumes alcohol.		
NAVIGATION NOTE: Autoimm	une reaction is graded as Au	toimmune reaction/hypersen	sitivity (including drug fever)	in the ALLERGY/IMMUNOLO	OGY CATEGORY.	
Cytokine release syndrome/acute infusion reaction	Cytokine release syndrome	Mild reaction; infusion interruption not indicated; intervention not indicated	Requires therapy or infusion interruption but responds promptly to symptomatic treatment (e.g., antihistamines, NSAIDS, narcotics, IV fluids); prophylactic medications indicated for ≤24 hrs	Prolonged (i.e., not rapidly responsive to symptomatic medication and/or brief interruption of infusion); recurrence of symptoms following initial improvement; hospitalization indicated for other clinical sequelae (e.g., renal impairment, pulmonary infiltrates)	Life-threatening; pressor or ventilatory support indicated	Death
acute infusion reaction may shortly after drug infusion a fever); Arthralgia (joint pair (muscle pain); Nausea; Pru Urticaria (hives, welts, whe ALSO CONSIDER: Allergic rea	syndromes/acute infusion rea y occur with an agent that cau and generally resolve complet n); Bronchospasm; Cough; Diz uritis/itching; Rash/desquama als); Vomiting. action/hypersensitivity (includular and nodal arrhythmia – S	uses cytokine release (e.g., notely within 24 hrs of completion completions; Dyspnea (shortness tion; Rigors/chills; Sweating (ing drug fever); Bronchospas	nonoclonal antibodies or other on of infusion. Signs/symptom of breath); Fatigue (asthenia (diaphoresis); Tachycardia; T sm, wheezing; Dyspnea (shor	er biological agents). Signs ar ns may include: Allergic react n, lethargy, malaise); Headact umor pain (onset or exacerba	nd symptoms usually develo cion/hypersensitivity (includir ne; Hypertension; Hypotens ation of tumor pain due to tra	p during or ng drug ion; Myalgia eatment);
NAVIGATION NOTE: Dissemin	nated intravascular coagulatio	on (DIC) is graded in the COA	AGULATION CATEGORY.			
NAVIGATION NOTE: Fanconi'	s syndrome is graded as Urin	ary electrolyte wasting (e.g.,	Fanconi's syndrome, renal tu	ubular acidosis) in the RENAI	L/GENITOURINARY CATE	GORY.
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
	represents a constellation of occur in a cluster consistent w			toms, fever, headache, malai	se, myalgia, prostration, and	d is to be
Navigation Note: Renal tu	bular acidosis is graded as U	rinary electrolyte wasting (e.g	g., Fanconi's syndrome, renal	tubular acidosis) in the REN	AL/GENITOURINARY CAT	EGORY.

		SYN	NDROMES		Pa	ge 2 of 2
				Grade		
Adverse Event	Short Name	1	2	3	4	5
"Retinoic acid syndrome"	"Retinoic acid syndrome"	Fluid retention; less than 3 kg of weight gain; intervention with fluid restriction and/or diuretics indicated	Mild to moderate signs/ symptoms; steroids indicated	Severe signs/symptoms; hospitalization indicated	Life-threatening; ventilatory support indicated	Death
			nilar to "retinoic acid syndrom tory distress, pulmonary infiltr			le. The
ALSO CONSIDER: Acute vaso	cular leak syndrome; Pleural	effusion (non-malignant); Pne	eumonitis/pulmonary infiltrate:	S.		
NAVIGATION NOTE: SIADH is	graded as Neuroendocrine:	ADH secretion abnormality (e.g., SIADH or low ADH) in th	ne ENDOCRINE CATEGORY	′ .	
NAVIGATION NOTE: Stevens-CATEGORY.	Johnson syndrome is graded	as Rash: erythema multiforn	ne (e.g., Stevens-Johnson sy	rndrome, toxic epidermal nec	rolysis) in the DERMATOLO	GY/SKIN
NAVIGATION NOTE: Thrombo the COAGULATION CATE		d as Thrombotic microangiop	athy (e.g., thrombotic thromb	ocytopenic purpura [TTP] or	hemolytic uremic syndrome	[HUS]) in
Tumor flare	Tumor flare	Mild pain not interfering with function	Moderate pain; pain or analgesics interfering with function, but not interfering with ADL	Severe pain; pain or analgesics interfering with function and interfering with ADL	Disabling	Death
			ect relation to initiation of the fuse bone pain, and other ele		drogens or additional hormor	nes). The
ALSO CONSIDER: Calcium, s	erum-high (hypercalcemia).					
Tumor lysis syndrome	Tumor lysis syndrome	_	_	Present	_	Death
ALSO CONSIDER: Creatinine;	Potassium, serum-high (hyp	erkalemia).		•		•
Syndromes – Other (Specify,)	Syndromes – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death

		VA	SCULAR		Pa	ge 1 of 2
				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 si	te reaction/extravasation cha	nges.		'	'	"
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
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: Vessel injury to an artery intra-operatively is graded as Intra-operative injury – Select Organ or Structure in the SURGERY/INTRA-OPERATIVE INJURY CATEGORY.

		VA	ASCULAR		Pa	ge 2 of 2
				Grade		
Adverse Event	Short Name	1	2	3	4	5
Vessel injury-vein - Select: - Extremity-lower - Extremity-upper - IVC - Jugular - Other NOS - SVC - Viscera	Vein injury – <i>Select</i>	Asymptomatic diagnostic finding; intervention not indicated	Symptomatic (e.g., claudication); not interfering with ADL; repair or revision not indicated	Symptomatic interfering with ADL; repair or revision indicated	Life-threatening; disabling; evidence of end organ damage	Death
Navigation Note: Vessel in	jury to a vein intra-operativel	y is graded as Intra-operative	e injury – Select Organ or Str	ructure in the SURGERY/INT	RA-OPERATIVE INJURY CA	TEGORY.
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 invasive intervention indicated	Life-threatening; disabling; evidence of end organ damage	Death
ALSO CONSIDER: CNS cereb	provascular ischemia.		•	•	•	•
Vascular – Other (Specify,)	Vascular – Other (Specify)	Mild	Moderate	Severe	Life-threatening; disabling	Death