

Supplemental Tables

Supplemental Table 1 Definition of immune-related adverse events

Immune-related adverse events were defined as adverse events with no clear alternate etiology and requiring systemic corticosteroid or immunosuppressant treatment within 30 days of onset or that required the use of systemic hormonal supplementation. Specific events included:
• Pneumonitis
• Colitis
• Hepatitis (including aspartate aminotransferase or alanine aminotransferase elevations >3×ULN or bilirubin >1.5×ULN)
• Nephritis (including serum creatinine >1.5×ULN)
• Pancreatitis
• Motor and sensory neuropathy
• Myocarditis
• Encephalitis
• Endocrinopathies (including but not limited to hypothyroidism, hyperthyroidism, hypophysitis, diabetes mellitus, and adrenal insufficiency)
• Ocular toxicities (uveitis)
• Skin reactions, including Stevens-Johnson syndrome or toxic epidermal necrolysis
• Diarrhea

ULN, upper limit of normal.

Supplemental Table 2 Treatment-emergent adverse events in dose escalation phase
by severity grade (n=53)

	n (%)	Grade 1-2	Grade 3	Grade 4
Patients with at least 1		17 (32)	33 (62)	3 (6)
Fatigue		15 (28)	1 (2)	0
Decreased appetite		13 (25)	2 (4)	0
Nausea		14 (26)	0	0
Cough		13 (25)	0	0
Anemia		6 (11)	6 (11)	0
Constipation		12 (23)	0	0
Infusion related reaction		10 (19)	0	1 (2)
Back pain		9 (17)	1 (2)	0
Dyspnea		7 (13)	2 (4)	0
Arthralgia		7 (13)	1 (2)	0
Pyrexia		7 (13)	1 (2)	0
Diarrhea		6 (11)	1 (2)	0
Headache		7 (13)	0	0
Blood alkaline phosphatase increased		4 (8)	2 (4)	0
Dizziness		6 (11)	0	0
Hyponatremia		4 (8)	2 (4)	0
Pain in extremity		5 (9)	1 (2)	0
Pruritus		6 (11)	0	0
Dehydration		3 (6)	2 (4)	0
Hypoalbuminemia		4 (8)	1 (2)	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Hypokalemia		4 (8)	1 (2)	0
Myalgia		5 (9)	0	0
Edema peripheral		4 (8)	1 (2)	0
Vomiting		4 (8)	1 (2)	0
Abdominal pain		3 (6)	1 (2)	0
Asthenia		4 (8)	0	0
Dyspepsia		4 (8)	0	0
Urinary tract infection		3 (6)	1 (2)	0
Abdominal distension		3 (6)	0	0
Acute kidney injury		1 (2)	2 (4)	0
Alanine aminotransferase increased		2 (4)	0	1 (2)
Dysphagia		3 (6)	0	0
Epistaxis		3 (6)	0	0
Hematuria		2 (4)	1 (2)	0
Hypercalcemia		2 (4)	1 (2)	0
Hypotension		3 (6)	0	0
Hypothyroidism		3 (6)	0	0
Insomnia		3 (6)	0	0
Muscular weakness		2 (4)	1 (2)	0
Musculoskeletal pain		3 (6)	0	0
Neck pain		3 (6)	0	0
Neuropathy peripheral		3 (6)	0	0
Night sweats		3 (6)	0	0
Non-cardiac chest pain		3 (6)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Upper respiratory tract infection	3 (6)	0	0
Weight decreased	2 (4)	1 (2)	0
Aspartate aminotransferase increased	1 (2)	1 (2)	0
Atrial fibrillation	2 (4)	0	0
Bone pain	0	2 (4)	0
Chest discomfort	2 (4)	0	0
Confusional state	2 (4)	0	0
Deep vein thrombosis	1 (2)	1 (2)	0
Dry mouth	2 (4)	0	0
Dysphonia	2 (4)	0	0
Fall	1 (2)	1 (2)	0
Flank pain	2 (4)	0	0
Gamma-glutamyltransferase increased	0	2 (4)	0
Hiccups	2 (4)	0	0
Hot flush	2 (4)	0	0
Hydronephrosis	2 (4)	0	0
Hypertension	1 (2)	1 (2)	0
Hypoesthesia	2 (4)	0	0
Hypoglycemia	1 (2)	1 (2)	0
Hypomagnesaemia	2 (4)	0	0
Hypophosphatasemia	1 (2)	1 (2)	0
Lower respiratory tract infection	0	2 (4)	0
Musculoskeletal chest pain	2 (4)	0	0
Nasal congestion	2 (4)	0	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Oral candidiasis	2 (4)	0	0	0
Paraesthesia	2 (4)	0	0	0
Peripheral swelling	2 (4)	0	0	0
Pneumonia	1 (2)	1 (2)	0	0
Pulmonary embolism	0	2 (4)	0	0
Sinus tachycardia	2 (4)	0	0	0
Small intestinal obstruction	0	2 (4)	0	0
Supraventricular tachycardia	1 (2)	1 (2)	0	0
Thrombocytopenia	1 (2)	1 (2)	0	0
Urinary incontinence	2 (4)	0	0	0
Viral infection	2 (4)	0	0	0
Weight increased	2 (4)	0	0	0
Abdominal pain upper	1 (2)	0	0	0
Abdominal wall abscess	1 (2)	0	0	0
Abscess	0	1 (2)	0	0
Allergic transfusion reaction	1 (2)	0	0	0
Alopecia	0	1 (2)	0	0
Amaurosis fugax	1 (2)	0	0	0
Amylase increased	0	1 (2)	0	0
Anal hemorrhage	1 (2)	0	0	0
Anxiety	1 (2)	0	0	0
Ascites	1 (2)	0	0	0
Axillary pain	1 (2)	0	0	0
Blood bicarbonate increased	1 (2)	0	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Blood lactate dehydrogenase increased	0	1 (2)	0
Breast swelling	1 (2)	0	0
Breath odor	1 (2)	0	0
Bundle branch block right	1 (2)	0	0
Cardiac murmur	1 (2)	0	0
Catheter site pain	1 (2)	0	0
Cerebrovascular accident	1 (2)	0	0
Chills	1 (2)	0	0
Conjunctivitis	1 (2)	0	0
Depression	1 (2)	0	0
Diplopia	1 (2)	0	0
Diverticulitis	0	1 (2)	0
Dizziness exertional	1 (2)	0	0
Drug eruption	1 (2)	0	0
Dry eye	1 (2)	0	0
Dry skin	1 (2)	0	0
Dry throat	1 (2)	0	0
Dysgeusia	1 (2)	0	0
Dyspnea exertional	1 (2)	0	0
Early satiety	1 (2)	0	0
Electrocardiogram QT prolonged	1 (2)	0	0
Emotional distress	1 (2)	0	0
Enterocutaneous fistula	0	1 (2)	0
Epididymitis	1 (2)	0	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Erythema		1 (2)	0	0
Febrile neutropenia		0	1 (2)	0
Gastritis		1 (2)	0	0
Gastroenteritis		1 (2)	0	0
Groin pain		1 (2)	0	0
Hemorrhoids		1 (2)	0	0
Hepatic enzyme increased		1 (2)	0	0
Herpes simplex reactivation		1 (2)	0	0
Hyperbilirubinemia		0	1 (2)	0
Hyperkalemia		1 (2)	0	0
Hyperlipidemia		1 (2)	0	0
Hypersensitivity		1 (2)	0	0
Hyperuricemia		0	0	1 (2)
Hypocalcaemia		1 (2)	0	0
Influenza like illness		1 (2)	0	0
Intestinal obstruction		0	1 (2)	0
Lactic acidosis		1 (2)	0	0
Laryngitis		1 (2)	0	0
Lethargy		1 (2)	0	0
Leukocytosis		1 (2)	0	0
Malaise		1 (2)	0	0
Mental status changes		1 (2)	0	0
Metabolic encephalopathy		1 (2)	0	0
Migraine with aura		1 (2)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Muscle spasms	1 (2)	0	0
Nephrolithiasis	0	1 (2)	0
Neutrophil count decreased	1 (2)	0	0
Edema	1 (2)	0	0
Oropharyngeal pain	1 (2)	0	0
Pain	0	1 (2)	0
Pain in jaw	1 (2)	0	0
Palpitations	1 (2)	0	0
Pelvic pain	1 (2)	0	0
Pericardial effusion	0	1 (2)	0
Peripheral sensory neuropathy	1 (2)	0	0
Peritonitis bacterial	1 (2)	0	0
Platelet count decreased	1 (2)	0	0
Pleural effusion	0	1 (2)	0
Pneumonitis	0	1 (2)	0
Poor quality sleep	1 (2)	0	0
Postrenal failure	1 (2)	0	0
Productive cough	1 (2)	0	0
Pulmonary edema	1 (2)	0	0
Rash	1 (2)	0	0
Rash maculo-papular	1 (2)	0	0
Rash pruritic	1 (2)	0	0
Respiratory tract infection	0	1 (2)	0
Rhinorrhea	1 (2)	0	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Sciatica		1 (2)	0	0
Sepsis		0	1 (2)	0
Skin infection		1 (2)	0	0
Skin ulcer		1 (2)	0	0
Sleep apnea syndrome		1 (2)	0	0
Stomatitis		1 (2)	0	0
Stress cardiomyopathy		0	1 (2)	0
Syncope		1 (2)	0	0
Tachycardia		1 (2)	0	0
Trigger finger		1 (2)	0	0
Tumor pruritus		1 (2)	0	0
Urinary retention		1 (2)	0	0
Urinary tract obstruction		0	1 (2)	0
Urinary tract pain		1 (2)	0	0
Vaginal discharge		1 (2)	0	0
Vision blurred		1 (2)	0	0
Vitreous floaters		1 (2)	0	0
Vulvovaginal pain		1 (2)	0	0
White blood cell count decreased		1 (2)	0	0

Supplemental Table 3 Treatment-related adverse events in dose escalation phase by severity grade (n=53)

n (%)	Grade 1-2	Grade 3	Grade 4
Patients with at least 1	24 (45)	6 (11)	2 (4)
Infusion related reaction	10 (19)	0	1 (2)
Fatigue	8 (15)	0	0
Arthralgia	5 (9)	0	0
Myalgia	4 (8)	0	0
Pruritus	3 (6)	0	0
Pyrexia	3 (6)	0	0
Alanine aminotransferase increased	1 (2)	0	1 (2)
Anemia	1 (2)	1 (2)	0
Aspartate aminotransferase increased	1 (2)	1 (2)	0
Asthenia	2 (4)	0	0
Blood alkaline phosphatase increased	2 (4)	0	0
Decreased appetite	2 (4)	0	0
Headache	2 (4)	0	0
Nausea	2 (4)	0	0
Thrombocytopenia	1 (2)	1 (2)	0
Amylase increased	0	1 (2)	0
Back pain	1 (2)	0	0
Chest discomfort	1 (2)	0	0
Chills	1 (2)	0	0
Cough	1 (2)	0	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Diarrhea		1 (2)	0	0
Dizziness		1 (2)	0	0
Dry mouth		1 (2)	0	0
Dry skin		1 (2)	0	0
Dyspepsia		1 (2)	0	0
Dysphagia		1 (2)	0	0
Dyspnea		1 (2)	0	0
Enterocutaneous fistula		0	1 (2)	0
Epistaxis		1 (2)	0	0
Febrile neutropenia		0	1 (2)	0
Gamma-glutamyltransferase increased		0	1 (2)	0
Hepatic enzyme increased		1 (2)	0	0
Hypersensitivity		1 (2)	0	0
Hypoglycemia		1 (2)	0	0
Hypothyroidism		1 (2)	0	0
Influenza like illness		1 (2)	0	0
Migraine with aura		1 (2)	0	0
Neuropathy peripheral		1 (2)	0	0
Neutrophil count decreased		1 (2)	0	0
Pain in extremity		1 (2)	0	0
Paresthesia		1 (2)	0	0
Platelet count decreased		1 (2)	0	0
Pneumonitis		0	1 (2)	0
Productive cough		1 (2)	0	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Rash		1 (2)	0	0
Stomatitis		1 (2)	0	0
Stress cardiomyopathy		0	1 (2)	0
Syncope		1 (2)	0	0
Tumour pruritus		1 (2)	0	0
White blood cell count decreased		1 (2)	0	0

Supplemental Table 4 Treatment-emergent adverse events in patients receiving pacmilimab 10 mg/kg in dose-escalation and expansion phases (n=114) by severity grade

	n (%)	Grade 1-2	Grade 3	Grade 4
Patients with at least 1		49 (43)	56 (49)	6 (5)
Fatigue		36 (32)	2 (2)	0
Diarrhea		27 (24)	3 (3)	0
Anemia		14 (12)	14 (12)	0
Decreased appetite		26 (23)	2 (2)	0
Nausea		26 (23)	1 (1)	0
Aspartate aminotransferase increased		18 (16)	5 (4)	0
Vomiting		19 (17)	3 (3)	0
Cough		19 (17)	1 (1)	0
Dyspnea		15 (13)	4 (4)	0
Arthralgia		14 (12)	2 (2)	0
Constipation		16 (14)	0	0
Alanine aminotransferase increased		15 (13)	0	0
Pyrexia		14 (12)	1 (1)	0
Back pain		12 (11)	2 (2)	0
Headache		14 (12)	0	0
Rash		14 (12)	0	0
Blood alkaline phosphatase increased		11 (10)	2 (2)	0
Weight decreased		12 (11)	1 (1)	0
Upper respiratory tract infection		12 (11)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Urinary tract infection	10 (9)	1 (1)	0
Blood creatinine increased	10 (9)	0	0
Myalgia	10 (9)	0	0
Edema peripheral	9 (8)	1 (1)	0
Abdominal pain	6 (5)	3 (3)	0
Hypertension	7 (6)	2 (2)	0
Hyponatremia	6 (5)	3 (3)	0
Infusion related reaction	9 (8)	0	0
Musculoskeletal pain	9 (8)	0	0
Pruritus	9 (8)	0	0
Abdominal pain upper	8 (7)	0	0
Dizziness	8 (7)	0	0
Hypoalbuminemia	7 (6)	1 (1)	0
Lipase increased	4 (4)	4 (4)	0
Pneumonia	1 (1)	7 (6)	0
Dehydration	6 (5)	1 (1)	0
Abdominal distension	6 (5)	0	0
Amylase increased	6 (5)	0	0
Hypercalcemia	5 (4)	1 (1)	0
Hyperglycemia	6 (5)	0	0
Hypomagnesaemia	5 (4)	1 (1)	0
Insomnia	6 (5)	0	0
Muscular weakness	5 (4)	1 (1)	0
Pain in extremity	5 (4)	1 (1)	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Stomatitis	5 (4)	5 (4)	1 (1)	0
Cellulitis	3 (3)	3 (3)	2 (2)	0
Dry mouth	5 (4)	5 (4)	0	0
Hot flush	5 (4)	5 (4)	0	0
Hypokalemia	5 (4)	5 (4)	0	0
Hypothyroidism	5 (4)	5 (4)	0	0
Muscle spasms	5 (4)	5 (4)	0	0
Musculoskeletal chest pain	4 (4)	4 (4)	1 (1)	0
Edema	5 (4)	5 (4)	0	0
Chills	4 (4)	4 (4)	0	0
Depression	4 (4)	4 (4)	0	0
Fall	3 (3)	3 (3)	1 (1)	0
Flank pain	4 (4)	4 (4)	0	0
Gamma-glutamyltransferase increased	0	0	3 (3)	1 (1)
Hypocalcaemia	4 (4)	4 (4)	0	0
Influenza like illness	4 (4)	4 (4)	0	0
Lower respiratory tract infection	2 (2)	2 (2)	2 (2)	0
Neuropathy peripheral	4 (4)	4 (4)	0	0
Night sweats	4 (4)	4 (4)	0	0
Non-cardiac chest pain	4 (4)	4 (4)	0	0
Pain	4 (4)	4 (4)	0	0
Pericardial effusion	1 (1)	1 (1)	3 (3)	0
Renal failure	2 (2)	2 (2)	2 (2)	0
Sepsis	1 (1)	1 (1)	1 (1)	2 (2)

	n (%)	Grade 1-2	Grade 3	Grade 4
Tumor pain		3 (3)	1 (1)	0
Vision blurred		4(3.5)	0	0
Alopecia		2 (2)	1 (1)	0
Asthenia		2 (2)	1 (1)	0
Cancer pain		2 (2)	1 (1)	0
Dyspepsia		3 (3)	0	0
Dysphagia		3 (3)	0	0
Dysphonia		3 (3)	0	0
Epistaxis		3 (3)	0	0
Erythema		3 (3)	0	0
Hiccups		3 (3)	0	0
Hyperkalemia		3 (3)	0	0
Hyperphosphatemia		3 (3)	0	0
Leukocytosis		1 (1)	2 (2)	0
Nasal congestion		3 (3)	0	0
Paresthesia		3 (3)	0	0
Platelet count decreased		3 (3)	0	0
Productive cough		3 (3)	0	0
Rash maculo-papular		2 (2)	1 (1)	0
Rectal hemorrhage		3 (3)	0	0
Abdominal discomfort		2 (2)	0	0
Acute kidney injury		0	2 (2)	0
Atrial fibrillation		2 (2)	0	0
Axillary pain		2 (2)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Blood lactate dehydrogenase increased	1 (1)	1 (1)	0
Blood magnesium decreased	2 (2)	0	0
Bone pain	1 (1)	1 (1)	0
COVID-19	1 (1)	1 (1)	0
Catheter site pain	2 (2)	0	0
Conjunctival hemorrhage	2 (2)	0	0
Decubitus ulcer	2 (2)	0	0
Dysgeusia	2 (2)	0	0
Electrocardiogram QT prolonged	2 (2)	0	0
Epigastric discomfort	2 (2)	0	0
Eye pruritus	2 (2)	0	0
Facial pain	2 (2)	0	0
Gastritis	2 (2)	0	0
Hemoptysis	2 (2)	0	0
Hemorrhoids	2 (2)	0	0
Hydronephrosis	2 (2)	0	0
Hyperthyroidism	2 (2)	0	0
Hypoglycemia	2 (2)	0	0
Intestinal obstruction	0	2 (2)	0
Iron deficiency	2 (2)	0	0
Lethargy	2 (2)	0	0
Leukopenia	2 (2)	0	0
Migraine with aura	2 (2)	0	0
Musculoskeletal stiffness	2 (2)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Nasopharyngitis	2 (2)	0	0
Neutropenia	2 (2)	0	0
Neutrophil count decreased	2 (2)	0	0
Ocular hyperemia	2 (2)	0	0
Oral candidiasis	2 (2)	0	0
Peripheral sensory neuropathy	2 (2)	0	0
Peripheral swelling	2 (2)	0	0
Pleural effusion	2 (2)	0	0
Pollakiuria	2 (2)	0	0
Procedural pain	2 (2)	0	0
Rhinitis allergic	2 (2)	0	0
Rhinorrhea	2 (2)	0	0
Skin infection	2 (2)	0	0
Small intestinal obstruction	0	2 (2)	0
Somnolence	2 (2)	0	0
Thrombocytopenia	2 (2)	0	0
Tumor hemorrhage	1 (1)	1 (1)	0
Viral infection	2 (2)	0	0
Vitamin D decreased	2 (2)	0	0
Weight increased	2 (2)	0	0
Wheezing	2 (2)	0	0
Abdominal mass	1 (1)	0	0
Abdominal wall abscess	1 (1)	0	0
Abscess	0	1 (1)	0

n (%)	Grade 1-2	Grade 3	Grade 4
Acral lentiginous melanoma	1 (1)	0	0
Acute respiratory failure	0	0	1 (1)
Allergic transfusion reaction	1 (1)	0	0
Antipsychotic drug level increased	1 (1)	0	0
Arthritis	1 (1)	0	0
Ascites	1 (1)	0	0
Bacteremia	1 (1)	0	0
Balance disorder	1 (1)	0	0
Basal cell carcinoma	1 (1)	0	0
Blood bicarbonate increased	1 (1)	0	0
Blood bilirubin increased	1 (1)	0	0
Blood cholesterol increased	1 (1)	0	0
Blood loss anemia	0	1 (1)	0
Blood pressure increased	1 (1)	0	0
Bradypnea	1 (1)	0	0
Breast discharge	1 (1)	0	0
Breast mass	1 (1)	0	0
Breast pain	1 (1)	0	0
Breast swelling	1 (1)	0	0
Breath odor	1 (1)	0	0
Buttock injury	0	1 (1)	0
Candida infection	1 (1)	0	0
Catheter site rash	1 (1)	0	0
Cerebral ischemia	1 (1)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Cerumen impaction	1 (1)	0	0
Chest discomfort	0	1 (1)	0
Chronic obstructive pulmonary disease	0	1 (1)	0
Circulatory collapse	1 (1)	0	0
Clavicle fracture	1 (1)	0	0
Coagulation test abnormal	1 (1)	0	0
Cognitive disorder	0	1 (1)	0
Confusional state	0	1 (1)	0
Conjunctivitis	1 (1)	0	0
Corneal leukoma	1 (1)	0	0
Deep vein thrombosis	1 (1)	0	0
Delirium	0	1 (1)	0
Depressed level of consciousness	1 (1)	0	0
Device occlusion	1 (1)	0	0
Disturbance in attention	1 (1)	0	0
Diverticulitis	1 (1)	0	0
Drug eruption	1 (1)	0	0
Dry throat	1 (1)	0	0
Dysesthesia	1 (1)	0	0
Dysuria	1 (1)	0	0
Ear discomfort	1 (1)	0	0
Ear injury	1 (1)	0	0
Ear pain	1 (1)	0	0
Eczema	1 (1)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Enterocutaneous fistula	0	1 (1)	0
Erectile dysfunction	1 (1)	0	0
Eye hemorrhage	1 (1)	0	0
Eye edema	1 (1)	0	0
Eye pain	1 (1)	0	0
Face edema	1 (1)	0	0
Feeling abnormal	1 (1)	0	0
Flatulence	1 (1)	0	0
Fungal infection	1 (1)	0	0
Gait disturbance	0	1 (1)	0
Gastric stenosis	1 (1)	0	0
Gastric ulcer	0	1 (1)	0
Gastroenteritis	1 (1)	0	0
Gastrointestinal stoma complication	1 (1)	0	0
Gastrointestinal stoma output decreased	1 (1)	0	0
Hematuria	1 (1)	0	0
Hemobilia	0	1 (1)	0
Head discomfort	1 (1)	0	0
Hepatic enzyme increased	1 (1)	0	0
Hepatomegaly	1 (1)	0	0
Hernia	1 (1)	0	0
Herpes simplex reactivation	1 (1)	0	0
Hiatus hernia	1 (1)	0	0
Humerus fracture	0	1 (1)	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Hydrocephalus	1 (1)	0	0	0
Hyperesthesia teeth	1 (1)	0	0	0
Hyperbilirubinemia	1 (1)	0	0	0
Hyperhidrosis	1 (1)	0	0	0
Hyperlipasemia	1 (1)	0	0	0
Hypernatremia	1 (1)	0	0	0
Hypersensitivity	1 (1)	0	0	0
Hypertonic bladder	1 (1)	0	0	0
Hyperuricemia	1 (1)	0	0	0
Hypophosphatemia	1 (1)	0	0	0
Hypoxia	0	1 (1)	0	0
Initial insomnia	1 (1)	0	0	0
Injection site bruising	1 (1)	0	0	0
Intertrigo	1 (1)	0	0	0
Intervertebral disc protrusion	1 (1)	0	0	0
Iron deficiency anemia	1 (1)	0	0	0
Joint swelling	1 (1)	0	0	0
Keratitis	1 (1)	0	0	0
Large intestinal obstruction	0	1 (1)	0	0
Laryngitis	1 (1)	0	0	0
Lichenoid keratosis	1 (1)	0	0	0
Liver function test increased	0	1 (1)	0	0
Localized edema	1 (1)	0	0	0
Lymphocyte count decreased	0	1 (1)	0	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Lymphoedema	1 (1)	0	0	0
Lymphopenia	1 (1)	0	0	0
Macular edema	1 (1)	0	0	0
Malaise	1 (1)	0	0	0
Malignant neoplasm progression	0	1 (1)	0	0
Microcytic anemia	1 (1)	0	0	0
Mucosal inflammation	1 (1)	0	0	0
Muscle strain	1 (1)	0	0	0
Muscle twitching	1 (1)	0	0	0
Myocarditis	0	1 (1)	0	0
Myokymia	1 (1)	0	0	0
Neck pain	1 (1)	0	0	0
Neoplasm skin	1 (1)	0	0	0
Nephrolithiasis	0	1 (1)	0	0
Oral herpes	1 (1)	0	0	0
Orbital infection	1 (1)	0	0	0
Oropharyngeal pain	1 (1)	0	0	0
Otitis externa	1 (1)	0	0	0
Otorrhoea	1 (1)	0	0	0
Pain in jaw	1 (1)	0	0	0
Painful respiration	1 (1)	0	0	0
Palpitations	1 (1)	0	0	0
Paranasal sinus hypersecretion	1 (1)	0	0	0
Pelvic pain	1 (1)	0	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Pleuritic pain	1 (1)	0	0
Polycythemia vera	1 (1)	0	0
Polyneuropathy	1 (1)	0	0
Poor quality sleep	1 (1)	0	0
Poor venous access	1 (1)	0	0
Portal vein thrombosis	1 (1)	0	0
Post procedural infection	0	1 (1)	0
Punctate keratitis	1 (1)	0	0
Rash pustular	1 (1)	0	0
Renal impairment	1 (1)	0	0
Respiratory failure	0	0	1 (1)
Respiratory syncytial virus infection	1 (1)	0	0
Retching	1 (1)	0	0
Rhinitis	1 (1)	0	0
Salivary gland pain	1 (1)	0	0
Scab	1 (1)	0	0
Sciatica	1 (1)	0	0
Seizure	0	1 (1)	0
Sinonasal obstruction	1 (1)	0	0
Sinus disorder	1 (1)	0	0
Sinus tachycardia	1 (1)	0	0
Sinusitis	1 (1)	0	0
Skin exfoliation	1 (1)	0	0
Skin ulcer	1 (1)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Sleep apnea syndrome	1 (1)	0	0
Soft tissue infection	1 (1)	0	0
Spinal osteoarthritis	1 (1)	0	0
Stoma site hemorrhage	0	1 (1)	0
Supraventricular tachycardia	0	1 (1)	0
T-cell type acute leukemia	0	0	1 (1)
Thyroiditis acute	1 (1)	0	0
Tongue coated	1 (1)	0	0
Toothache	1 (1)	0	0
Trigger finger	1 (1)	0	0
Tumor exudation	1 (1)	0	0
Tumor obstruction	0	1 (1)	0
Tumor pruritus	1 (1)	0	0
Urinary retention	1 (1)	0	0
Urinary tract obstruction	0	1 (1)	0
Urinary tract pain	1 (1)	0	0
Urosepsis	1 (1)	0	0
Venous thrombosis	1 (1)	0	0
Ventricular extrasystoles	1 (1)	0	0
Visual acuity reduced	1 (1)	0	0
Vitamin D deficiency	1 (1)	0	0
Vitreous floaters	1 (1)	0	0
Vulvovaginal pain	1 (1)	0	0
White blood cell count decreased	1 (1)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Wound infection	1 (1)	0	0

Supplemental Table 5 Treatment-related adverse events in patients receiving pacmilimab 10 mg/kg in dose-escalation and expansion phases (n=114) by severity grade

	n (%)	Grade 1-2	Grade 3	Grade 4
Patients with at least 1		56 (49)	10 (9)	0
Fatigue		17 (15)	1 (1)	0
Aspartate aminotransferase increased		14 (12)	1 (1)	0
Alanine aminotransferase increased		12 (11)	0	0
Infusion related reaction		9 (8)	0	0
Rash		9 (8)	0	0
Arthralgia		8 (7)	0	0
Decreased appetite		8 (7)	0	0
Myalgia		7 (6)	0	0
Diarrhea		6 (5)	0	0
Vomiting		6 (5)	0	0
Blood alkaline phosphatase increased		5 (4)	0	0
Hypothyroidism		5 (4)	0	0
Lipase increased		3 (3)	2 (2)	0
Nausea		5 (4)	0	0
Pruritus		5 (4)	0	0
Anemia		4 (4)	0	0
Influenza like illness		4 (4)	0	0
Amylase increased		3 (3)	0	0
Dyspnea		3 (3)	0	0
Platelet count decreased		3 (3)	0	0
Pyrexia		3 (3)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Rash maculo-papular	2 (2)	1 (1)	0
Blood creatinine increased	2 (2)	0	0
Cough	2 (2)	0	0
Dizziness	2 (2)	0	0
Dry mouth	2 (2)	0	0
Gamma-glutamyltransferase increased	0	2 (2)	0
Headache	2 (2)	0	0
Hot flush	2 (2)	0	0
Hypercalcemia	2 (2)	0	0
Lethargy	2 (2)	0	0
Muscular weakness	2 (2)	0	0
Night sweats	2 (2)	0	0
Paresthesia	2 (2)	0	0
Stomatitis	2 (2)	0	0
Thrombocytopenia	2 (2)	0	0
Weight decreased	2 (2)	0	0
Alopecia	1 (1)	0	0
Arthritis	1 (1)	0	0
Asthenia	1 (1)	0	0
Back pain	1 (1)	0	0
Balance disorder	1 (1)	0	0
Blood magnesium decreased	1 (1)	0	0
Breast pain	1 (1)	0	0
Chills	1 (1)	0	0
Constipation	1 (1)	0	0
Dysesthesia	1 (1)	0	0
Dysgeusia	1 (1)	0	0

n (%)	Grade 1-2	Grade 3	Grade 4
Dyspepsia	1 (1)	0	0
Dysphonia	1 (1)	0	0
Electrocardiogram QT prolonged	1 (1)	0	0
Enterocutaneous fistula	0	1 (1)	0
Epistaxis	1 (1)	0	0
Erythema	1 (1)	0	0
Head discomfort	1 (1)	0	0
Hepatic enzyme increased	1 (1)	0	0
Hyperglycemia	1 (1)	0	0
Hyperhidrosis	1 (1)	0	0
Hyperphosphatemia	1 (1)	0	0
Hypertension	0	1 (1)	0
Hyperthyroidism	1 (1)	0	0
Hyperuricemia	1 (1)	0	0
Hypoalbuminemia	1 (1)	0	0
Hypoglycemia	1 (1)	0	0
Hypokalemia	1 (1)	0	0
Keratitis	1 (1)	0	0
Lichenoid keratosis	1 (1)	0	0
Lymphopenia	1 (1)	0	0
Malaise	1 (1)	0	0
Migraine with aura	1 (1)	0	0
Mucosal inflammation	1 (1)	0	0
Muscle spasms	1 (1)	0	0
Musculoskeletal chest pain	1 (1)	0	0
Musculoskeletal pain	1 (1)	0	0
Myocarditis	0	1 (1)	0

	n (%)	Grade 1-2	Grade 3	Grade 4
Myokymia		1 (1)	0	0
Neuropathy peripheral		1 (1)	0	0
Neutropenia		1 (1)	0	0
Neutrophil count decreased		1 (1)	0	0
Edema peripheral		1 (1)	0	0
Oral herpes		1 (1)	0	0
Pain		1 (1)	0	0
Peripheral sensory neuropathy		1 (1)	0	0
Polyneuropathy		1 (1)	0	0
Productive cough		1 (1)	0	0
Rash pustular		1 (1)	0	0
Scab		1 (1)	0	0
Thyroiditis acute		1 (1)	0	0
Tumor hemorrhage		1 (1)	0	0
Tumor pruritus		1 (1)	0	0
Visual acuity reduced		1 (1)	0	0
White blood cell count decreased		1 (1)	0	0