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Dueck AC, Becker CC, Rogak LJ, Schrag D, Reeve B, Spears P, Smith ML, Gounder MM, Mahoney MR, Schwartz GK, Bennett AV, Mendoza TR, Cleeland CS, Sloan JA, Bruner DB, Schwab G, Atkinson TM, Thanarajasingam G, Bertagnolli MM, Basch EM. Composite grading algorithm for National Cancer Institute's PRO-CTCAE. J Clin Oncol 38: 2020 (suppl; abstr 7018).

Final scoring algorithm for mapping of PRO-CTCAE individual item score permutations to single composite adverse event grades. Mappings are shown for all 187 PRO-CTCAE scoring permutations, including those with (A) three items, (B) two items, and (C) one item.

A.

FREQUENCY	SEVERITY	INTERFERENCE	COMPOSITE GRADE
Never (0)	None (0)	Not at all (0)	0
Rarely (1)	None (0)	Not at all (0)	0
Rarely (1)	None (0)	A little bit (1)	1
Rarely (1)	None (0)	Somewhat (2)	1
Rarely (1)	None (0)	Quite a bit (3)	2
Rarely (1)	None (0)	Very Much (4)	2
Rarely (1)	Mild (1)	Not at all (0)	1
Rarely (1)	Mild (1)	A little bit (1)	1
Rarely (1)	Mild (1)	Somewhat (2)	1
Rarely (1)	Mild (1)	Quite a bit (3)	2
Rarely (1)	Mild (1)	Very Much (4)	2
Rarely (1)	Moderate (2)	Not at all (0)	1
Rarely (1)	Moderate (2)	A little bit (1)	2
Rarely (1)	Moderate (2)	Somewhat (2)	2
Rarely (1)	Moderate (2)	Quite a bit (3)	2
Rarely (1)	Moderate (2)	Very Much (4)	3
Rarely (1)	Severe (3)	Not at all (0)	2
Rarely (1)	Severe (3)	A little bit (1)	2
Rarely (1)	Severe (3)	Somewhat (2)	2
Rarely (1)	Severe (3)	Quite a bit (3)	3
Rarely (1)	Severe (3)	Very Much (4)	3
Rarely (1)	Very Severe (4)	Not at all (0)	2
Rarely (1)	Very Severe (4)	A little bit (1)	2
Rarely (1)	Very Severe (4)	Somewhat (2)	3
Rarely (1)	Very Severe (4)	Quite a bit (3)	3
Rarely (1)	Very Severe (4)	Very Much (4)	3
Occasionally (2)	None (0)	Not at all (0)	0
Occasionally (2)	None (0)	A little bit (1)	1

Occasionally (2)	None (0)	Somewhat (2)	1
Occasionally (2)	None (0)	Quite a bit (3)	2
Occasionally (2)	None (0)	Very Much (4)	2
Occasionally (2)	Mild (1)	Not at all (0)	1
Occasionally (2)	Mild (1)	A little bit (1)	1
Occasionally (2)	Mild (1)	Somewhat (2)	1
Occasionally (2)	Mild (1)	Quite a bit (3)	2
Occasionally (2)	Mild (1)	Very Much (4)	2
Occasionally (2)	Moderate (2)	Not at all (0)	2
Occasionally (2)	Moderate (2)	A little bit (1)	2
Occasionally (2)	Moderate (2)	Somewhat (2)	2
Occasionally (2)	Moderate (2)	Quite a bit (3)	3
Occasionally (2)	Moderate (2)	Very Much (4)	3
Occasionally (2)	Severe (3)	Not at all (0)	2
Occasionally (2)	Severe (3)	A little bit (1)	2
Occasionally (2)	Severe (3)	Somewhat (2)	2
Occasionally (2)	Severe (3)	Quite a bit (3)	3
Occasionally (2)	Severe (3)	Very Much (4)	3
Occasionally (2)	Very Severe (4)	Not at all (0)	2
Occasionally (2)	Very Severe (4)	A little bit (1)	2
Occasionally (2)	Very Severe (4)	Somewhat (2)	3
Occasionally (2)	Very Severe (4)	Quite a bit (3)	3
Occasionally (2)	Very Severe (4)	Very Much (4)	3
Frequently (3)	None (0)	Not at all (0)	1
Frequently (3)	None (0)	A little bit (1)	1
Frequently (3)	None (0)	Somewhat (2)	1
Frequently (3)	None (0)	Quite a bit (3)	2
Frequently (3)	None (0)	Very Much (4)	2
Frequently (3)	Mild (1)	Not at all (0)	1
Frequently (3)	Mild (1)	A little bit (1)	1
Frequently (3)	Mild (1)	Somewhat (2)	1
Frequently (3)	Mild (1)	Quite a bit (3)	2
Frequently (3)	Mild (1)	Very Much (4)	2
Frequently (3)	Moderate (2)	Not at all (0)	2
Frequently (3)	Moderate (2)	A little bit (1)	2
Frequently (3)	Moderate (2)	Somewhat (2)	2
Frequently (3)	Moderate (2)	Quite a bit (3)	3
Frequently (3)	Moderate (2)	Very Much (4)	3
Frequently (3)	Severe (3)	Not at all (0)	2
Frequently (3)	Severe (3)	A little bit (1)	2
Frequently (3)	Severe (3)	Somewhat (2)	3

Frequently (3)	Severe (3)	Quite a bit (3)	3
Frequently (3)	Severe (3)	Very Much (4)	3
Frequently (3)	Very Severe (4)	Not at all (0)	2
Frequently (3)	Very Severe (4)	A little bit (1)	2
Frequently (3)	Very Severe (4)	Somewhat (2)	3
Frequently (3)	Very Severe (4)	Quite a bit (3)	3
Frequently (3)	Very Severe (4)	Very Much (4)	3
Almost Constantly (4)	None (0)	Not at all (0)	1
Almost Constantly (4)	None (0)	A little bit (1)	1
Almost Constantly (4)	None (0)	Somewhat (2)	1
Almost Constantly (4)	None (0)	Quite a bit (3)	2
Almost Constantly (4)	None (0)	Very Much (4)	2
Almost Constantly (4)	Mild (1)	Not at all (0)	1
Almost Constantly (4)	Mild (1)	A little bit (1)	1
Almost Constantly (4)	Mild (1)	Somewhat (2)	2
Almost Constantly (4)	Mild (1)	Quite a bit (3)	2
Almost Constantly (4)	Mild (1)	Very Much (4)	3
Almost Constantly (4)	Moderate (2)	Not at all (0)	2
Almost Constantly (4)	Moderate (2)	A little bit (1)	2
Almost Constantly (4)	Moderate (2)	Somewhat (2)	2
Almost Constantly (4)	Moderate (2)	Quite a bit (3)	3
Almost Constantly (4)	Moderate (2)	Very Much (4)	3
Almost Constantly (4)	Severe (3)	Not at all (0)	2
Almost Constantly (4)	Severe (3)	A little bit (1)	2
Almost Constantly (4)	Severe (3)	Somewhat (2)	3
Almost Constantly (4)	Severe (3)	Quite a bit (3)	3
Almost Constantly (4)	Severe (3)	Very Much (4)	3
Almost Constantly (4)	Very Severe (4)	Not at all (0)	2
Almost Constantly (4)	Very Severe (4)	A little bit (1)	2
Almost Constantly (4)	Very Severe (4)	Somewhat (2)	3
Almost Constantly (4)	Very Severe (4)	Quite a bit (3)	3
Almost Constantly (4)	Very Severe (4)	Very Much (4)	3

B.

FREQUENCY	SEVERITY	COMPOSITE GRADE
Never (0)	None (0)	0
Rarely (1)	None (0)	1
Rarely (1)	Mild (1)	1
Rarely (1)	Moderate (2)	1
Rarely (1)	Severe (3)	2
Rarely (1)	Very Severe (4)	2
Occasionally (2)	None (0)	1
Occasionally (2)	Mild (1)	1
Occasionally (2)	Moderate (2)	2
Occasionally (2)	Severe (3)	2
Occasionally (2)	Very Severe (4)	2
Frequently (3)	None (0)	1
Frequently (3)	Mild (1)	1
Frequently (3)	Moderate (2)	2
Frequently (3)	Severe (3)	3
Frequently (3)	Very Severe (4)	3
Almost Constantly (4)	None (0)	1
Almost Constantly (4)	Mild (1)	1
Almost Constantly (4)	Moderate (2)	2
Almost Constantly (4)	Severe (3)	3
Almost Constantly (4)	Very Severe (4)	3
SEVERITY	INTERFERENCE	COMPOSITE GRADE
None (0)	Not at all (0)	0
Mild (1)	Not at all (0)	1
Mild (1)	A little bit (1)	1
Mild (1)	Somewhat (2)	1
Mild (1)	Quite a bit (3)	2
Mild (1)	Very Much (4)	2
Moderate (2)	Not at all (0)	1
Moderate (2)	A little bit (1)	1
Moderate (2)	Somewhat (2)	2
Moderate (2)	Quite a bit (3)	2
Moderate (2)	Very Much (4)	3
Severe (3)	Not at all (0)	1
Severe (3)	A little bit (1)	2
Severe (3)	Somewhat (2)	2
Severe (3)	Quite a bit (3)	3
Severe (3)	Very Much (4)	3
Very Severe (4)	Not at all (0)	2

Very Severe (4)	A little bit (1)	2
Very Severe (4)	Somewhat (2)	2
Very Severe (4)	Quite a bit (3)	3
Very Severe (4)	Very Much (4)	3
FREQUENCY	INTERFERENCE	COMPOSITE GRADE
Never (0)	Not at all (0)	0
Rarely (1)	Not at all (0)	1
Rarely (1)	A little bit (1)	1
Rarely (1)	Somewhat (2)	1
Rarely (1)	Quite a bit (3)	2
Rarely (1)	Very Much (4)	2
Occasionally (2)	Not at all (0)	1
Occasionally (2)	A little bit (1)	1
Occasionally (2)	Somewhat (2)	1
Occasionally (2)	Quite a bit (3)	2
Occasionally (2)	Very Much (4)	2
Frequently (3)	Not at all (0)	1
Frequently (3)	A little bit (1)	1
Frequently (3)	Somewhat (2)	2
Frequently (3)	Quite a bit (3)	3
Frequently (3)	Very Much (4)	3
Almost Constantly (4)	Not at all (0)	1
Almost Constantly (4)	A little bit (1)	1
Almost Constantly (4)	Somewhat (2)	2
Almost Constantly (4)	Quite a bit (3)	3
Almost Constantly (4)	Very Much (4)	3

C.

FREQUENCY	COMPOSITE GRADE
Never (0)	0
Rarely (1)	1
Occasionally (2)	1
Frequently (3)	2
Almost Constantly (4)	3
SEVERITY	COMPOSITE GRADE
None (0)	0
Mild (1)	1
Moderate (2)	2
Severe (3)	3
Very Severe (4)	3
AMOUNT	COMPOSITE GRADE
Not at all (0)	0
A little bit (1)	1
Somewhat (2)	1
Quite a bit (3)	2
Very Much (4)	2