

Supplementary Online Content

Arora M, Sun CL, Ness KK, et al . Physiologic frailty in nonelderly hematopoietic cell transplantation patients: Results From the Bone Marrow Transplant Survivor Study. Published online June 2, 2016. *JAMA Oncol*. doi:10.1001/jamaoncol.2016.0855.

eTable. Frailty phenotype

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable. Frailty Phenotype

Indices	BMTSS Questionnaire	Code	Fried's criteria ¹	Code
Clinically underweight	BMI calculated from self-reported weight and height	<18.5=1;	Unintentional weight loss in prior year	≥10 pounds or loss of ≥ 5% of body weight= 1
Exhaustion	BSI 18: "Feeling weak in parts of your body"	Not at all, a little bit=0; Moderate, quite a bit, extremely=1	CES-D scale: Two questions: a) I felt that everything I did was an effort; (b) I could not get going. "How often in the last week did you feel this way?"	0=rarely or none of the time (<1 day), 1=some or a little of the time (1-2 days) 2=moderate amount of the time (3-4 days) OR 3=most of the time. Subjects answering "2" or "3" = 1
Low Energy Expenditure	"On how many of the past 7 days did you exercise or do sports at least 20 minutes that made you sweat or breathe hard (e.g. dancing, jogging, basketball etc.)"	<2 days=1; ≥2 days=0	Based on the short version of the Minnesota Leisure Time Activity questionnaire, asking about activities and sports. Kcals per week expended are calculated using standardized algorithm.	Men: Kcals of physical activity per week < 383 = 1 Women: Kcals per week < 270 = 1
Slowness	"Over the last 2 years, how long (if at all) has your health limited you in: i) walking uphill or climbing a few flights of stairs; ii) walking one block	Either item limited over three months=1; Else=0;	Time to walk 15 feet	Men : Height: ≤173 cm: ≥7 seconds=1; Height >173 cm: ≥6 seconds:1 Women Height: ≤159 cm: ≥7 seconds=1; Height >159: cm ≥6 seconds=1
Weakness	Weakness or inability to move arm(s)	Yes=1; No=0	Grip strength	Cutoff for grip strength (Kg)

				Men BMI ≤ 24 : ≤ 29 ; BMI = 24.1-26: ≤ 30 ; BMI=26.1-28: ≤ 30 ; BMI >28: ≤ 32 ; Women BMI ≤ 23 : ≤ 17 ; BMI=23.1-26: ≤ 17.3 ; BMI=26.1-29: ≤ 18 ; BMI >29: ≤ 21 Grip strength \leq cutoff = 1
		Score ≥ 3: Frail Score ≤ 2: not frail		

Abbreviations: BSI: brief symptom inventory, CES-D: Center for Epidemiological Studies-depression