

# Physical Exam - Parameters Useful in the Assessment of Nutritional Status

Exam areas Subcutaneous fat loss	<u>Tips</u>	Severe Malnutrition	Mild-Moderate Malnutrition	Well Nourished
Orbital Region – Surrounding the Eye	View patient when standing directly in front of them, touch above cheekbone	Hollow look, depressions, dark circles, loose skin	Slightly dark circles, somewhat hollow look	Slightly bulged fat pads. Fluid retention may mask loss
Upper Arm Region- Triceps/biceps	Arm bent, roll skin between fingers, do not include muscle in pinch	Very little space between folds, fingers touch	Some depth pinch, but not ample	Ample fat tissue obvious between folds of skin
Thoracic and Lumbar Region - Ribs , Lower Back, Midaxillary line	Have patient press hands hard against a solid object	Depression between the ribs very apparent. Iliac Crest very prominent	Ribs apparent, depressions between them less pronounced. Iliac Crest somewhat prominent	Chest is full, ribs do not show. Slight to no protrusion of the iliac crest.
Muscle loss				
Temple Region - Temporalis Muscle	View patient when standing directly in front of them, ask patient to turn head side to side	Hollowing, scooping, depression	Slight depression	Can see/feel well- defined muscle
Clavicle Bone Region - Pectoralis Major, Deltoid, Trapezius Muscles	Look for prominent bone. Make sure patient is not hunched forward	Protruding, prominent bone	Visible in male, some protrusion in female	Not visible in male, visible but not prominent in female
Clavicle and Acromion Bone Region - Deltoid Muscle	Patient arms at side; observe shape	Shoulder to arm joint looks square. Bones prominent. Acromion protrusion very prominent	Acromion process may slightly protrude	Rounded, curves at arm/shoulder/neck



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Scapular Bone Region –	Ask patient to extend	Prominent, visible	Mild depression or	Bones not prominent,
Trapezius,	hands straight out,	bones, depressions	bone may show slightly	no significant
Supraspinus,	push against solid	between ribs/scapula		depressions
Infraspinus Muscles	object.	or shoulder/spine		
Dorsal Hand -	Look at thumb side of	Depressed area	Slightly depressed	Muscle bulges, could be
Interosseous Muscle	hand; look at pads of	between thumb-		flat in some well
	thumb when tip of	forefinger		nourished people
	forefinger touching tip			
	of thumb			
Lower body less				
sensitive to change				
Patellar Region –	Ask patient to sit with	Bones prominent, little	Knee cap less	Muscles protrude,
Quadricep Muscle	leg propped up, bent at	sign of muscle around	prominent, more	bones not prominent
	knee	knee	rounded	
Anterior Thigh Region -	Ask patient to sit, prop	Depression/line on	Mild depression on	Well rounded, well
Quadriceps Muscles	leg up on low furniture.	thigh, obviously thin	inner thigh	developed
	Grasp quads to			
	differentiate amount of			
	muscle tissue from fat			
	tissue.			
Posterior Calf Region-	Grasp the calf muscle	Thin, minimal to no	Not well developed	Well-developed bulb of
Gastrocnemius Muscle	to determine amount	muscle definition		muscle
_,	of tissue			
Edema				
Rule out other causes	View scrotum/vulva in	Deep to very deep	Mild to moderate	No sign of fluid
of edema, patient at	activity restricted	pitting, depression	pitting, slight swelling	accumulation
dry weight	patient; ankles in	lasts a short to	of the extremity,	
	mobile patient	moderate time (31-	indentation subsides	
		60sec) extremity looks	quickly (0-30 sec)	
		swollen (3-4+)		



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#### Notes:

- 1. Introduce yourself to the patient/family
- 2. Provide rationale for examination request
- 3. Ask the patient for permission to examine them
- 4. Wash/dry hands thoroughly; wear gloves
- 5. Use standard precautions to prevent disease transmission

### **References:**

- 1. McCann L. Subjective global assessment as it pertains to the nutritional status of dialysis patients. Dialysis & Transplantation. 1996; 25(4):190-202.
- 2. Council on Renal Nutrition of the National Kidney Foundation. Pocket Guide to Nutrition Assessment of the Patient with Chronic Kidney Disease, 3<sup>rd</sup> ed. (McCann, L, ed.) 2005 Last accessed 5/30/12 at <a href="http://www.scribd.com/doc/6991983/Pocket-Guide-to-Nut-Crd">http://www.scribd.com/doc/6991983/Pocket-Guide-to-Nut-Crd</a>
- 3. Secker DJ, JeeJeebhoy KN. How to perform subjective global nutritional assessment in children. J Acad Nutr Diet 2012;(112):424-431.

This table was developed by Jane White, PhD, RD, FADA, LDN, Louise Merriman, MS, RD, CDN, Terese Scollard, MBA, RD and the Cleveland Clinic Center for Human Nutrition,

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