



A guide to completing the Mini Nutritional Assessment MNA®



Mini Nutritional Assessment (MNA®)

The MNA® is a screening and assessment tool that can be used to identify elderly patients at risk of malnutrition. The User Guide will assist you in completing the MNA® accurately and consistently. It explains each question and how to assign and interpret the score.

Introduction:

While the prevalence of malnutrition in the free living elderly population is relatively low, the risk of malnutrition increases dramatically in the institutionalized and hospitalized elderly¹. The prevalence of malnutrition is even higher in cognitively impaired elderly individuals and is associated with cognitive decline.²

Patients who are malnourished when admitted to the hospital tend to have longer hospital stays, experience more complications, and have greater risks of morbidity and mortality than those whose nutritional state is normal.³

By identifying patients who are malnourished or at risk of malnutrition either in the hospital or community setting, the MNA® allows clinicians to intervene earlier to provide adequate nutritional support, prevent further deterioration, and improve patient outcomes.⁴

Mini Nutritional Assessment MNA®

The MNA® provides a simple and quick method of identifying elderly patients who are at risk for malnutrition, or who are already malnourished. It identifies the risk of malnutrition before severe changes in weight or serum protein levels occur.

The MNA® may be completed at regular intervals in the community and in the hospital or long term care setting.

The MNA® was developed by Nestlé and leading international geriatricians and remains one of the few validated screening tools for the elderly. It has been well validated in international studies in a variety of settings⁵⁻⁷ and correlates with morbidity and mortality.

INSTRUCTIONS TO COMPLETE THE MNA®

Before beginning the MNA®, please enter the patient's information on the top of the form:

- **Name**
- **Gender**
- **Age**
- **Weight (kg)** – To obtain an accurate weight, remove shoes and heavy outer clothing. Use a calibrated and reliable set of scales. If applicable: convert pounds (lbs) to kilograms (1kg = 2.2lbs).
- **Height (cm)** – Measure height without shoes using a stadiometer (height gauge) or, if the patient is bedridden, by knee height or demispan (see Appendices 4 or 5). Convert inches to centimeters (1inch = 2.54cm).
- **Date of screen**

Screening

Complete the screen by filling in the boxes with the appropriate numbers. Then, add together the numbers to determine the total score of the screen. If the score is 11 or less, continue on with the assessment to determine the **Malnutrition Indicator Score**.

Key Points

Ask the patient to answer the following questions using the suggestions in the shaded areas. If the patient is unable to answer the question, ask the patient's caregiver to answer. Using the patient's medical record or your professional judgment, answer any remaining questions.

A

Has food intake declined over the past three months due to loss of appetite, digestive problems, chewing or swallowing difficulties?

Score 0 = Severe loss of appetite
1 = Moderate loss of appetite
2 = No decrease in food intake

Ask patient

- » *"Have you eaten less than normal over the past three months?"*
- » *If so, "is this because of lack of appetite, chewing, or swallowing difficulties?"*
- » *If yes, "have you eaten much less than before or only a little less?"*
- » *If this is a re-assessment, then rephrase the question: "Has the amount of food you have eaten changed since your last assessment?"*

B

Weight loss during the last 3 months?

Score 0 = Weight loss greater than 3 kg (6.6 pounds)
1 = Does not know
2 = Weight loss between 1 and 3 kg (2.2 and 6.6 pounds)
3 = No weight loss

Ask patient / medical record (if long term or residential care)

- » *"Have you lost any weight without trying over the last 3 months?"*
- » *"Has your waistband gotten looser?"*
- » *"How much weight do you think you have lost? More or less than 3 kg (or 6 pounds)?"*

Though weight loss in the overweight elderly may be appropriate, it may also be due to malnutrition. When the weight loss question is removed, the MNA® loses its sensitivity, so it is important to ask about weight loss even in the overweight.

C

Mobility?

- Score 0 = Bed or chair bound
 1 = Able to get out of bed/chair, but does not go out
 2 = Goes out

Ask patient / Patient's medical record / Information from caregiver

- » *"Are you presently able to get out of the bed / chair?"*
- » *"Are you able to get out of the house or go outdoors on your own?"*

D

Has the patient suffered psychological stress or acute disease in the past three months?

- Score 0 = Yes
 1 = No

Ask patient / Patient medical record / Professional judgment

- » *"Have you suffered a bereavement recently?"*
- » *"Have you recently moved your home?"*
- » *"Have you been sick recently?"*

E

Neuropsychological problems?

- Score 0 = Severe dementia or depression
 1 = Mild dementia
 2 = No psychological problems

Review patient medical record / Professional judgment / Ask nursing staff or caregiver

The patient's caregiver, nursing staff or medical record can provide information about the severity of the patient's neuropsychological problems (dementia).

If a patient cannot respond (i.e. one with dementia) or is severely confused, ask the patient's personal or professional caregiver to answer the following questions or check the patient's answers for accuracy (Questions A, B, C, D, G, J, K, L, M, O, P).

Body mass index (BMI)?
(weight in kg / height in m²)

Score 0 = BMI less than 19

1 = BMI 19 to less than 21

2 = BMI 21 to less than 23

3 = BMI 23 or greater

Determining BMI

BMI is used as an indicator of appropriate weight for height. BMI is calculated by dividing the weight in kg by the height in m² (Appendix 1).

$$\text{BMI} = \frac{\text{weight (kg)}}{\text{height (m}^2\text{)}}$$

Before determining BMI, record the patients' weight and height on the MNA[®] form.

1. Convert subject's weight to metric using formula 1kg = 2.2lbs. Convert subject's height to metric using formula 1inch = 2.54cm
2. If height has not been measured, please measure using a stadiometer or height gauge (Refer to Appendix 3).
3. If the patient is unable to stand, measure height using indirect methods such as measuring demi-span (half arm span) or knee height (See Appendices 4 and 5). If height cannot be measured either directly or by indirect methods, use a verbal or historical height to calculate a BMI. Verbal height will be the least accurate, especially for bedridden patients and patients who have lost height over the years.
4. Using the BMI chart provided (Appendix 1), locate the patient's height and weight and determine the BMI. **It is essential that a BMI is included in the MNA[®] – without it the tool is not valid.**
5. Fill in the appropriate box on the MNA[®] form to represent the BMI of the patient.
6. To determine BMI for a patient with an amputation, see Appendix 2.

The screening section of the questionnaire is now complete. Add the numbers to obtain the screening score.

A score of 12 points or greater indicates:

Patient is not at nutrition risk. There is no need to complete the rest of the questionnaire. Rescreen at regular intervals.

A score of 11 points or less indicates:

Patient may be at risk for malnutrition. Please complete the full MNA[®] assessment by answering questions G – R.

Assessment

G

Lives independently (not in a nursing home)?

Score 0 = No

1 = Yes

Ask patient

This question refers to the normal living conditions of the individual. Its purpose is to determine if the person is usually dependent on others for care. For example, if the patient is in the hospital because of an accident or acute illness, where does the patient normally live?

» *“Do you normally live in your own home, or in an assisted living, residential setting, or nursing home?”*

H

Takes more than 3 prescription drugs per day?

Score 0 = Yes

1 = No

Ask patient / Patient medical record

Check the patient’s medication record / ask nursing staff / ask doctor / ask patient

I

Pressure sores or skin ulcers?

Score 0 = Yes

1 = No

Ask patient / Patient’s medical record

» *“Do you have bed sores?”*

Check the patient’s medical record for documentation of pressure wounds or skin ulcers, or ask the caregiver / nursing staff / doctor for details, or examine the patient if information is not available in the medical record.

J

How many full meals does the patient eat daily?

- Score 0 = 1 meal
 1 = 2 meals
 3 = 3 meals

Ask patient / Check food intake record if necessary

- » *“Do you normally eat breakfast, lunch and dinner?”*
- » *“How many meals a day do you eat?”*

A full meal is defined as eating more than 2 items or dishes when the patient sits down to eat.

For example, eating potatoes, vegetable, and meat is considered a full meal; or eating an egg, bread, and fruit is considered a full meal.

K

Selected consumption markers for protein intake

- » *At least one serving of dairy products per day?*
 Yes No
- » *Two or more servings of legumes or eggs per week?*
 Yes No
- » *Meat, fish or poultry every day?*
 Yes No

- Score 0.0 = if 0 or 1 Yes answer(s)
 0.5 = if 2 Yes answers
 1.0 = if 3 Yes answers

Ask the patient or nursing staff, or check the completed food intake record

- » *“Do you consume any dairy products (a glass of milk / cheese in a sandwich / cup of yogurt / can of high protein supplement) every day?”*
- » *“Do you eat beans/eggs? How often do you eat them?”*
- » *“Do you eat meat, fish or chicken every day?”*

L

Consumes two or more servings of fruits or vegetables per day?

Score 0 = No
1 = Yes

Ask the patient / check the completed food intake record if necessary

» *“Do you eat fruits and vegetables?”*

» *“How many portions do you have each day?”*

A portion can be classified as:

- One piece of fruit (apple, banana, orange, etc.)
- One medium cup of fruit or vegetable juice
- One cup of raw or cooked vegetables

M

How much fluid (water, juice, coffee, tea, milk) is consumed per day?

Score 0.0 = Less than 3 cups
0.5 = 3 to 5 cups
1.0 = More than 5 cups

Ask patient

» *“How many cups of tea or coffee do you normally drink during the day?”*

» *“Do you drink any water, milk or fruit juice? What size cup do you usually use?”*

A cup is considered 200 – 240ml or 7-8oz.

N

Mode of Feeding?

Score 0 = Unable to eat without assistance *
1 = Feeds self with some difficulty **
2 = Feeds self without any problems

Ask patient / Patient medical record/ information from caregiver

» *“Are you able to feed yourself?” / “Can the patient feed himself/herself?”*

» *“Do you need help to eat?” / “Do you help the patient to eat?”*

» *“Do you need help setting up your meals (opening containers, buttering bread, or cutting meats)?”*

* Patients who must be fed or need help holding the fork would score 0.

** Patients who need help setting up meals (opening containers, buttering bread, or cutting meats), but are able to feed themselves would score 1 point.

Pay particular attention to potential causes of malnutrition that need to be addressed to avoid malnutrition (e.g. dental problems, need for adaptive feeding devices to support eating).

O**Self-View of Nutritional Status**

- Score 0 = Views self as being malnourished
 1 = Is uncertain of nutritional state
 2 = Views self as having no nutritional problems

Ask the patient

- » *“How would you describe your nutritional state?”*
 Then prompt *“Poorly nourished?”*
“Uncertain?”
“No problems?”

The answer to this question depends upon the patient’s state of mind. If you think the patient is not capable of answering the question, ask the caregiver / nursing staff for their opinion.

P

In comparison with other people of the same age, how does the patient consider his/her health status?

- Score 0.0 = Not as good
 0.5 = Does not know
 1.0 = As good
 2.0 = Better

Ask patient

- » *“How would you describe your state of health compared to others your age?”*
 Then prompt *“Not as good as others of your age?”*
“Not sure?”
“As good as others of your age?”
“Better?”

Again, the answer will depend upon the state of mind of the person answering the question.

Q**Mid-arm circumference (MAC) in cm**

- Score 0.0 = MAC less than 21
 0.5 = MAC 21 to 22
 1.0 = MAC 22 or greater

Measure the mid-arm circumference in cm as described in Appendix 6.

R**Calf circumference (CC) in cm**

- Score 0 = CC less than 31
 1 = CC 31 or greater

Calf circumference should be measured in cm as described in Appendix 7.



Final Score

- » Total the points from the assessment section of the MNA® (maximum 16 points).
- » Add the assessment and screening scores together to get the total Malnutrition Indicator Score (Maximum 30 points).
- » Check the appropriate box indicator.
- » If the score is greater than 23.5 points, the patient is in a normal state of nutrition and no further action is required.
- » If the score is less than 23.5 points, refer the patient to a dietitian or nutrition specialist for nutrition intervention.

Until a dietitian is available, give the patient / caregiver some advice on how to improve nutritional intake such as:

- » Increase intake of energy/protein dense foods (e.g. puddings, milkshakes, etc).
- » Supplement food intake with additional snacks and milk.
- » If diet alone does not improve the patient's nutritional intake, the patient may need oral nutritional supplements.

- » Ensure adequate fluid intake; 6-8 cups/ glasses per day.

Follow-Up

- » Re-screen all patients every three months.
- » Please refer results of assessments & re-assessments to dietitian/doctor and record in medical record.

Appendices

Appendix 1 • Body Mass Index table

		Height (feet & inches)																		
		5'0"	5'1"	5'2"	5'3"	5'4"	5'5"	5'6"	5'7"	5'8"	5'9"	5'10"	5'11"	6'0"	6'1"	6'2"	6'3"	6'4"		
Weight (kg)	45	20	19	18	18	17	17	16	16	15	15	14	14	14	13	13	12	12	100	
	47	21	20	19	19	18	17	17	16	16	16	15	15	14	14	13	13	13	105	
	50	21	21	20	19	19	18	18	17	17	16	16	15	15	15	14	14	13	110	
	52	22	22	21	20	20	19	19	18	17	17	17	16	16	15	15	14	14	115	
	54	23	23	22	21	21	20	19	19	18	18	17	17	16	16	15	15	15	120	
	57	24	24	23	22	21	21	20	20	19	18	18	17	17	16	16	16	15	125	
	59	25	25	24	23	22	22	21	20	20	19	19	18	18	17	17	16	16	130	
	61	26	26	25	24	23	22	22	21	21	20	19	19	18	18	17	17	16	135	
	63	27	26	26	25	24	23	23	22	21	21	20	20	19	18	18	17	17	140	
	66	28	27	27	26	25	24	23	23	22	21	21	20	20	19	19	18	18	145	
	68	29	28	27	27	26	25	24	23	23	22	22	21	20	20	19	19	18	150	
	70	30	29	28	27	26	25	24	24	23	22	22	21	20	20	19	19	19	155	
	72	31	30	29	28	27	26	25	24	24	23	22	22	21	21	20	20	19	160	
	75	32	31	30	29	28	27	26	25	24	24	23	22	22	21	21	20	19	165	
	77	33	32	31	30	29	28	27	26	25	24	24	23	22	22	21	21	21	170	
	79	34	33	32	31	30	29	28	27	26	25	24	24	23	22	22	21	21	175	
82	35	34	33	32	31	30	29	28	27	26	25	24	24	23	22	22	22	180		
84	36	35	34	33	32	31	30	29	28	27	26	25	24	24	23	23	23	185		
86	37	36	35	34	33	32	31	30	29	28	27	26	25	24	24	23	23	190		
88	38	37	36	35	33	32	31	31	30	29	28	27	26	25	24	24	24	195		
91	39	38	37	35	34	33	32	31	30	30	29	28	27	26	25	24	24	200		
93	40	39	37	36	35	34	33	32	31	30	29	29	28	27	26	25	25	205		
95	41	40	38	37	36	35	34	33	32	31	30	29	28	28	27	26	26	210		
98	42	41	39	38	37	36	35	34	33	32	31	30	29	28	28	27	26	215		
100	43	42	40	39	38	37	36	34	33	32	32	31	30	29	28	27	27	220		
102	44	43	41	40	39	37	36	35	34	33	32	31	31	30	29	28	27	225		
104	45	43	42	41	39	38	37	36	35	34	33	32	31	30	30	29	28	230		
107	46	44	43	42	40	39	38	37	36	35	34	33	32	31	30	29	29	235		
109	47	45	44	43	41	40	39	38	36	35	34	33	33	32	31	30	29	240		
111	48	46	45	43	42	41	40	38	37	36	35	34	33	32	31	31	30	245		
114	49	47	46	44	43	42	40	39	38	37	36	35	34	33	32	31	30	250		
		150	152.5	155	157.5	160	162.5	165	167.5	170	172.5	175	177.5	180	182.5	185	187.5	190	Height (cm)	

■ Underweight
 ■ Weight Appropriate
 ■ Overweight
 ■ Obese

Source:

Adapted from Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults: The Evidence Report. National Institute of Health, National Heart Lung and Blood Institute

Appendix 2 • Determining BMI for amputees

To determine the BMI for amputees, first determine the patient's estimated weight including the weight of the missing body part.^{8,9}

- » Use a standard reference (see table) to determine the proportion of body weight contributed by an individual body part.
- » Multiple patient's current weight by the percent of body weight of the missing body part to determine estimated weight of missing part.
- » Add the estimated weight of the missing body part to patient's current weight to determine estimated weight prior to amputation.

Divide estimated weight by estimated body height² to determine BMI.

Example: 80 year old man, amputation of the left lower leg, 1.72 m, 58 kg

1. Estimate body weight: Current body weight + Proportion for the missing leg

$$58 \text{ (kg)} + [58 \text{ (kg)} \times 0.059] = 61.4 \text{ kg}$$

2. Calculate BMI:

Estimated body weight / body height (m)²

$$61.4 / 1.72 \times 1.72 = 20.8$$

Weight of selected body components

It is necessary to account for the missing body component(s) when estimating IBW.

Table: Percent of Body Weight Contributed by Specific Body Parts

Body Part	Percentage
Trunk w/o limbs	50.0
Hand	0.7
Forearm with hand	2.3
Forearm without hand	1.6
Upper arm	2.7
Entire arm	5.0
Foot	1.5
Lower leg with foot	5.9
Lower leg without foot	4.4
Thigh	10.1
Entire leg	16.0

References cited:

Malone A., *Anthropometric Assessment*, In Charney P, Malone E, eds. ADA Pocket Guide to Nutrition Assessment. Chicago, IL: American Dietetic Association; 2004:142-152.

Osterkamp LK., *Current perspective on assessment of human body proportions of relevance to amputees*, J Am Diet Assoc. 1995;95:215-218.



Appendix 3 • Measuring height using a stadiometer

1. Ensure the floor surface is even and firm.
2. Have subject remove shoes and stand up straight with heels together, and with heels, buttocks and shoulders pressed against the stadiometer.
3. Arms should hang freely with palms facing thighs.
4. Take the measurement with the subject standing tall, looking straight ahead with the head upright and not tilted backwards.
5. Make sure the subjects heels stay flat on the floor.
6. Lower the measure on the stadiometer until it makes contact with the top of the head.
7. Record standing height to the nearest centimeter.



Accessed at:

http://www.ktl.fi/publications/ehrm/product2/part_iii5.htm

Appendix 4 • Measurement of Demispan

Demispan (half-arm span) is the distance from the midline at the sternal notch to the web between the middle and ring fingers along outstretched arm. Height is then calculated from a standard formula.¹⁰

1. Locate and mark the midpoint of the sternal notch with the pen.
2. Ask the patient to place the left arm in a horizontal position.
3. Check that the patient's arm is horizontal and in line with shoulders.
4. Using the tape measure, measure distance from mark on the midline at the sternal notch to the web between the middle and ring fingers.
5. Check that arm is flat and wrist is straight.
6. Take reading in cm.

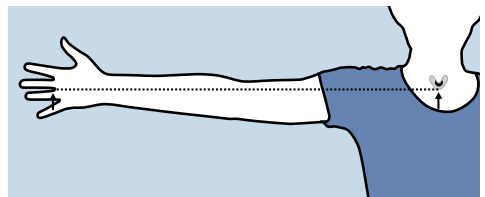
Calculate height from the formula below:

Females

Height in cm =
 $(1.35 \times \text{demispan in cm}) + 60.1$

Males

Height in cm =
 $(1.40 \times \text{demispan in cm}) + 57.8$



Source:

Reproduced here with the kind permission of BAPEN (British Association for Parenteral and Enteral Nutrition) from the 'MUST' Explanatory Booklet.

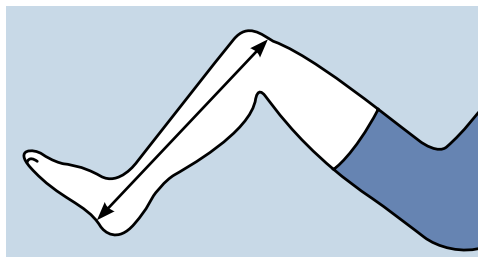
For further information see www.bapen.org.uk

(http://www.bapen.org.uk/pdfs/must/must_explan.pdf)

Appendix 5 • Measurement of Knee Height

Knee height is one method to determine stature in the bed- or chair-bound patient and is measured using a sliding knee height caliper. The subject must be able to bend the knee and the ankle to 90 degree angles.

1. Have the subject bend the knee and ankle of one leg at a 90 degree angle while lying supine or sitting on a table with legs hanging off the side of the table.
2. Place the fixed blade of the knee caliper under the heel of the foot in line with the ankle bone. Place the fixed blade of the caliper on the anterior surface of the thigh about 3.0 cm above the patella.
3. Be sure the shaft of the caliper is in line with and parallel to the long bone in the lower leg (tibia) and is over the ankle bone (lateral malleolus). Apply pressure to compress the tissue. Record the measurement to the nearest 0.1 cm.
4. Take two measurements in immediate succession. They should agree within 0.5 cm. Use the average of these two measurements and the person's chronological age in the country and ethnic group specific equations in the following table.
5. The value calculated from the selected equation is an estimate of the person's true stature. The 95 percent confidence for this estimate is plus and minus twice the SEE value for each equation.



Source:

http://www.rxkinetics.com/height_estimate.html

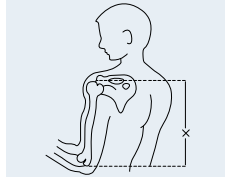
Accessed December 12, 2006.

Using population-specific formula, calculate height from standard formula:

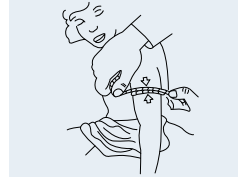
Gender & ethnic group	Equation: Stature (cm) =
Non-Hispanic white men (U.S.) ¹¹ [SEE = 3.74 cm]	$78.31 + (1.94 \times \text{knee height}) - (0.14 \times \text{age})$
Non-Hispanic black men (U.S.) ¹¹ [SEE = 3.80 cm]	$79.69 + (1.85 \times \text{knee height}) - (0.14 \times \text{age})$
Mexican-American men (U.S.) ¹¹ [SEE = 3.68 cm]	$82.77 + (1.83 \times \text{knee height}) - (0.16 \times \text{age})$
Non-Hispanic white women (U.S.) ¹¹ [SEE = 3.98 cm]	$82.21 + (1.85 \times \text{knee height}) - (0.21 \times \text{age})$
Non-Hispanic black women (U.S.) ¹¹ [SEE = 3.82 cm]	$89.58 + (1.61 \times \text{knee height}) - (0.17 \times \text{age})$
Mexican-American women (U.S.) ¹¹ [SEE = 3.77 cm]	$84.25 + (1.82 \times \text{knee height}) - (0.26 \times \text{age})$
Taiwanese men ¹² [SEE = 3.86 cm]	$85.10 + (1.73 \times \text{knee height}) - (0.11 \times \text{age})$
Taiwanese women ¹² [SEE = 3.79 cm]	$91.45 + (1.53 \times \text{knee height}) - (0.16 \times \text{age})$
Elderly Italian men ¹³ [SEE = 4.3 cm]	$94.87 - (1.58 \times \text{knee height}) - (0.23 \times \text{age}) + 4.8$
Elderly Italian women ¹³ [SEE = 4.3 cm]	$94.87 + (1.58 \times \text{knee height}) - (0.23 \times \text{age})$
French men ¹⁴ [SEE = 3.8 cm]	$74.7 + (2.07 \times \text{knee height}) - (-0.21 \times \text{age})$
French women ¹⁴ [SEE = 3.5 cm]	$67.00 + (2.2 \times \text{knee height}) - (0.25 \times \text{age})$
Mexican Men ¹⁵ [SEE = 3.31 cm]	$52.6 + (2.17 \times \text{knee height})$
Mexican Women ¹⁵ [SEE = 2.99 cm]	$73.70 + (1.99 \times \text{knee height}) - (0.23 \times \text{age})$
Filipino Men ¹⁶	$96.50 + (1.38 \times \text{knee height}) - (0.08 \times \text{age})$
Filipino Women ¹⁶	$89.63 + (1.53 \times \text{knee height}) - (0.17 \times \text{age})$
Malaysian men ¹⁷ [SEE = 3.51 cm]	$(1.924 \times \text{knee height}) + 69.38$
Malaysian women ¹⁷ [SEE = 3.40]	$(2.225 \times \text{knee height}) + 50.25$

Appendix 6 • Measuring Mid Arm Circumference

1. Ask the patient to bend their non-dominant arm at the elbow at a right angle with the palm up.
2. Measure the distance between the acromial surface of the scapula (bony protrusion surface of upper shoulder) and the olecranon process of the elbow (bony point of the elbow) on the back of the arm.
3. Mark the mid-point between the two with the pen.
4. Ask the patient to let the arm hang loosely by his/her side.
5. Position the tape at the mid-point on the upper arm and tighten snugly. Avoid pinching or causing indentation.
6. Record measurement in cm.
7. If MAC is less than 21, score = 0.
If MAC is 21-22, score = 0.5.
If MAC is 22 or greater, score = 1.0.



Source:
Moore MC, *Pocket Guide to Nutrition and Diet Therapy*, 1993



Source:
PEN Group, *A pocket guide to clinical nutrition: Assessment of nutritional status*, British Dietetic Association. 1997

Appendix 7 • Measuring Calf Circumference

1. The subject should be sitting with the left leg hanging loosely or standing with their weight evenly distributed on both feet.
2. Ask the patient to roll up their trouser leg to uncover the calf.
3. Wrap the tape around the calf at the widest part and note the measurement.
4. Take additional measurements above and below the point to ensure that the first measurement was the largest.
5. An accurate measurement can only be obtained if the tape is at a right angle to the length of the calf.

References

1. Guigoz Y, Vellas B, Garry PJ, *Assessing the nutritional status of the elderly: The Mini Nutritional Assessment as part of the geriatric evaluation*, *Nutr Rev* 1996;54:559-565.
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