

# **HOW TO GUIDE**

### **Patient-Generated Subjective Global Assessment (PG-SGA)**

PG-SGA is a 4 in 1 tool that can be used for nutrition screening, assessment, triaging and monitoring.

### **Materials required:**

PG-SGA worksheet

### **Procedure:**

The PG-SGA consists of 2 main components. The patient generated component, (also known as the PG-SGA short form) and then worksheets 1 to 5.

### The patient generated component:

### Consists of boxes 1-4 and can be completed by the patient prior to dietitian assessment.

Scored Patient-Generated Subjective Global Assessment (PG-SGA)	Patient Identification Information
History: Boxes 1 - 4 are designed to be completed by the patient. [Boxes 1-4 are referred to as the PG-SGA Short Form (SF)]	
1. Weight (See Worksheet 1)         In summary of my current and recent weight:         I currently weigh aboutkg         I am about cm tall         One month ago I weighed aboutkg         Six months ago I weighed aboutkg         During the past two weeks my weight has:        decreased (1)      not changed (0)         Box 1	<ul> <li>2. Food intake: As compared to my normal intake, I would rate my food intake during the past month as</li> <li>unchanged (0)</li> <li>more than usual (0)</li> <li>less than usual (1)</li> <li>I am now taking</li> <li><i>normal food</i> but less than normal amount (1)</li> <li>little solid food (2)</li> <li>only liquids (3)</li> <li>only nutritional supplements (3)</li> <li>very little of anything (4)</li> <li>only tube feedings or only nutrition by vein (0) Box 2</li> </ul>
3. Symptoms: I have had the following problems that have kept me from eating enough during the past two weeks (check all that apply)         no problems eating (0)         no appetite, just did not feel like eating (3)         nausea (1)         diarrhea (3)         constipation (1)         mouth sores (2)         smells bother me (1)         things taste funny or have no taste (1)         problems swallowing (2)         other (1)**         **Examples: depression, money, or dental problems         Box 3         The remainder of this form is to be completed by your doctor, nurse, dictitian, or the full full full full full full full ful	<ul> <li>4. Activities and Function: <ul> <li>Over the past month, I would generally rate my activity as:</li> <li>normal with no limitations (0)</li> <li>not my normal self, but able to be up and about with fairly normal activities (1)</li> <li>not feeling up to most things, but in bed or chair less than half the day (2)</li> <li>able to do little activity and spend most of the day in bed or chair (3)</li> <li>pretty much bed ridden, rarely out of bed (3)</li> </ul> Box 4</li></ul>

<u>Box 1</u> - Assesses chronic, intermediate, or acute weight change.

Complete for both 1 and 6 months. Use 6-month history only if 1 month is not available. Refer to worksheet 1 for weight loss scoring.

The maximum score is 5 points for this box. Up to 4 points for weight loss and up to one point for the past 2 weeks

<u>Box 2</u> - Assesses changes in the amount, type and consistency of food intake during the past 2 months.

Score how the patient self-rates his/her intake.

Note: The score is not additive for this box. Use the highest score checked i.e., max score = 4.

<u>Box 3</u> - Assesses symptoms that have negatively influenced food intake/absorption or utilisation of nutrients during the past 2 weeks.

Note: Only score symptoms impacting on nutritional intake. Add all points for box 3 total score.

<u>Box 4</u> - Assesses the patients' activities and function over the past month and is based on the Eastern Cooperative Oncology Group (ECOG) performance status.

In summary of my current and recent weight:	While height is not essential for scoring, the app calculates BMI	
I currently weigh about pounds		
I am about feet inches tall	Complete both 1 & 6 months; for scoring, use 1 mo if available. Use 6	
One month ago I weighed about pounds	months only if 1 month is not available	
Six months ago I weighed about pounds	not available	
During the past two weeks my weight has: decreased (1)not changed (0)increas	sed (0)	
Box 1 max score = 5 points: up to 4 pts from wt loss + up to 1 point !	or past 2 wks	

<ol><li>Food intake: As compared to my food intake during the past month</li></ol>	
unchanged (0)	
more than usual (0)	Score how the patient self-rates his/her
less than usual (1)	intake during the past month; this helps to address recent deficit / current risk
I am now taking	
normal food but less than no	ormal amount (1)
□ little solid food (2)	
only liquids (3)	Box 2 not additive; max = 4; use the highest score checked, no
only nutritional supplements	S (3) matter how many options checked; not additive
very little of anything (4)	
only tube feedings or only n	utrition by vein (m) Box 2

	nptoms: I have had the following problem m eating enough during the past two wee		
	o problems eating (0)		
	o appetite, just did not feel like eating (3)		vomiting (3)
	ausea (1)		diarrhea (3)
	onstipation (1)		dry mouth (1)
🗆 m	nouth sores (2)		smells bother me (1)
D th	nings taste funny or have no taste (1)		feel full quickly (1)
🗆 рі	roblems swallowing (2)		fatigue (1)
	ain; where? (3)		
	ther (1)**		_
	*Examples: depression, money, or dental	pro	oblems Box 3

 Activities and Function: Over the past month, I would generally rate my activity as:

- normal with no limitations (0)
- not my normal self, but able to be up and about with fairly normal activities (1)
- not feeling up to most things, but in bed or chair less than half the day (2)
- □ able to do little activity and spend most of the day in bed or chair (3)
- pretty much bed ridden, rarely out of bed (3)

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### Worksheet 1 - Provides guidance on scoring weight loss

Use 1 month data if available.

Use points to score weight change and add one extra point if patient has lost weight during the past 2 weeks.

1-month weight data. Use po	oints below to sco	wailable. Use 6-month data only if there is no re weight change and add one extra point if Enter total point score in Box 1 of PG-SGA.
Weight loss in 1 month	Points	Weight loss in 6 months
10% or greater	4	20% or greater
5-9.9%	3	10-19.9%
3-4.9%	2	6- 9.9%
2-2.9%	1	2- 5.9%
0-1.9%	0	0- 1.9%

### Worksheet 2 - Identifies conditions that may increase nutritional risk or requirements

Add one point for each of these conditions identified.

<ol> <li>Worksheet 2 – Disease and its Score is derived by adding 1 point for</li> </ol>	relation to nutritional requirements: each of the following conditions:
Cancer	Presence of decubitus, open wound or fistula
AIDS	Presence of trauma
Pulmonary or cardiac cachexia	Age greater than 65
Chronic renal insufficiency Other relevant diagnoses (specify)	
Primary disease staging (circle if known	own or appropriate) I II III IV Other Numerical score from Worksheet 2 B

## <u>Worksheet 3</u> – Assesses metabolic demand considering fever (how high and for how long) and corticosteroid use

#### 6. Worksheet 3 - Metabolic Demand

Score for metabolic stress is determined by a number of variables known to increase protein & caloric needs. Note: Score fever intensity or duration, whichever is greater. The score is additive so that a patient who has a fever of  $38.8 \,^{\circ}$  (3 points) for < 72 hrs (1 point) and who is on 10 mg of prednisone chronically (2 points) would have an additive score for this section of 5 points.

Bulcas	none (0)	10 (1)	model ate (2)	mgn (5)	
Fever	no fever	> 37.2 and < 38.3	≥ 38.3 and < 38.8	≥ 38.8 °C	
Fever duration	no fever	< 72 hours	72 hours	> 72 hours	
Corticosteroids	no corticosteroids	low dose	moderate dose	high dose	_
		(< 10 mg prednisone equivalents/day)	(≥ 10 and < 30 mg prednisone equivalents/day)	(≥ 30 mg prednisone equivalents/day)	Numerical score from Worksheet 3
		equivalents (alg)	preditione equivalents duy)	equivalents day)	

### Worksheet 4 – Captures the results of a nutrition focused physical exam

7. Worksheet 4 – Physical Exam valuation of 3 aspects of body composition: fat, muscle, & fluid. Since this is subjective, each aspect of the exam is rated for degree. Muscle deficit/loss impacts point score more than fat deficit/loss. a subjective Definition of categories: 0 = no abnormality, 1+ = mild, 2+ = moderate, 3+ = severe. Rating in these categories is not additive but are used to clinically assess the degree of deficit (or presence of excess fluid). Muscle Status temples (temporalis muscle) clavicles (pectoralis & deltoids) Fat Stores Point score for the physical exam is determined by the overall subjective rating of the total body deficit. No deficit score = 0 points 0 1+ 2+ 3+ orbital fat pads triceps skin fold 0 1+ 2+ 3+ No deficit score = 0 points Mild deficit score = 1 point Moderate deficit score = 2 points Severe deficit score = 2 points loss or fluid excess. fat overlying lower ribs shoulders (deltoids) Global fat deficit rating 0 1+ 2+ 3+ interosseous muscles scapula (latissimus dorsi, trapezius, deltoids) 0 1+ 2+ 3+ Fluid status thigh (quadriceps) 0 1+ 2+ 3+ 0 1+ 2+ 3+ankle edema Numerical Score for Worksheet 4 D sacral edema acrat coeffia 0 1+ 2+ 3+ Global fluid status rating 0 1+ 2+ 3+ **Total PG-SGA Score** (Total numerical score of A+B+C+D) 0 1+ 2+ 3+ Global muscle status rating RD RN PA MD DO Other Date \_\_\_\_ Global PG-SGA Category Rating (Stage A, Stage B or Stage C) Clinician Signature

### Scoring of physical exam:

A score of 0-3 points for each site is given. No deficit = 0 points Mild deficit = 1 point Moderate deficit = 2 points Severe deficit = 3 points Moderate deficit = 3 points Moderate deficit = 3 points Severe deficit = 3 points Moderate deficit = 3 points

Determine global rating for muscle, fat and fluid stores, noting that muscle loss takes precedence. Determine overall rating and record in Box D

Note: You do not have to complete assessment at all sites to have a global sense for loss or deficit of muscle or fat. Remember the maximum point score for the physical exam is only 3 points – and you are not likely to be off by more than 1 point.

Scoring:

Total PG-SGA Score (Total numerical score of A+B+C+D)

Worksheet 5 - PG-SGA Global Assessment Categories

TOTAL PG-SGA SCORE = A + B + C + D

Global PG-SGA Category Rating (Stage A, Stage B or Stage C)

### Worksheet 5 - Global rating of nutritional status

A = well nourished, **B** = moderate or suspected malnutrition, C = severely malnourished.

You may find it easiest to circle A, B or C for each category as you work down the list. The global status will be determined by the column with the most circles.

### Total PG-SGA Score:

The PG-SGA provides a score, which is a continuous measure (from 0-16) with the higher the score, the higher the malnutrition risk.

The score can be used to triage nutrition intervention.

<b>C</b> +	Stage A	Stage B	Stage C
	Well-nourished	Moderate/suspected malnutrition	Severely malnourished
Category Weight	No weight loss	Solution $\leq 5\%$ loss in 1 month ( $\leq 10\%$ in 6 months) OR Progressive weight loss	Severely mathourished > 5% loss in 1 month (>10% in 6 months OR Progressive weight loss
Nutrient intake	No deficit OR Significant recent improvement	Definite decrease in intake	Severe deficit in intake
Nutrition Impact Symptoms (NIS	None ) OR significant recent improvement allowing adequate intake	Presence of NIS (Box 3 of PG-SGA)	Presence of NIS (Box 3 of PG-SGA)
Functioning	No deficit OR Significant	Moderate functional deficit	Severe functional deficit
	recent improvement	OR Recent deterioration	OR Recent significant deterioration
Physical Exam	No deficit OR chronic	Evidence of mild to moderate loss	Obvious signs of malnutrition
	deficit but with recent	of muscle mass &/or muscle tone on	(e.g., severe loss muscle, fat,
	clinical improvement	palpation &/or loss of SQ fat	possible edema)

Nutritional Triage Recommendations: Additive score is used to define specific nutritional interventions include nent including pharmacologic intervention, and appropriate nutrier, intervention (food, m mana stritional supplements, enteral, or parenteral triage).

First line nutrition intervention includes optimal symp Triage based on PG-SGA point score

- No in ired at this time. Re-assessment on routine and regular basis during treatr
- 2-3 Patient & family education by dietitian, nurse, or other clinician with pharmacologic in vention as adicated by sy
- promation by which are a supported by the second se 4-8 Requires intervention by dietitian, in conjunction with nurse or physiciar
   ≥ 9 Indicates a critical need for improved symptom management and/or nur

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Frequently asked questions:

**Q:** Should we score all symptoms present, or only those impacting nutritional intake?

- A: Only score those that affect nutritional intake.
- **Q:** If a symptom was affecting intake withing the past 2 weeks but has resolved on the day of assessment, should it still be scored?
- A: Yes
- Q. Do we score for reduced activity levels even if this is not due to nutrition status (e.g. trauma)?
- A: Yes, one week of complete bed rest can be associated with up to 4% loss in lean body mass.
- Q: Should I use loss of weight over 1 month or 6 months?
- A: Use 1 month if available, this gives a more recent idea of metabolic status (anabolic or catabolic)

- **Q:** If a patient is receiving 100% nutrition requirements via enteral/parenteral nutrition but still has nutrition impact symptoms, do we still score them?
- A: Yes. This box helps to determine what symptoms are stopping the patient meeting requirements orally and what nutrition interventions are required.

### Key references:

Ottery FD. Patient-Generated Subjective Global Assessment In: The Clinical Guide to Oncology Nutrition ed. PD McCallum & CG Polisena, 2000; pp 11–23 Chicago: The American Dietetic Association

Bauer J, Capra S, Ferguson M. Use of the scored Patient-Generated Subjective Global Assessment (PG-SGA) as a nutrition assessment tool in patients with cancer. Eur J Clin Nutr. 2002 Aug;56(8):779-85. doi: 10.1038/sj.ejcn.1601412.

Also available on the patient global platform in 20 different languages. Each language has undergone translation and cross-cultural adaptation. <u>https://pt-global.org/pt-global/</u>