



## Comparison of novel, Bach Mai Boston tool (BBT) and The patient-generated subjective global assessment (PG-SGA) for oncology inpatients

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### Abstract

**Background:** Oncology inpatients are at high risk of malnutrition. Identification of at risk patients by nutrition screening requires a practical and easy to use tool.

**Purpose:** The aim of this study was to determine the validity of the Bach Mai Boston Tool (BBT) and compared to a "gold standard" full nutrition assessment using the Patient-Generated Subjective Global Assessment (PG-SGA).

**Methods:** A cross-sectional study was conducted on 270 oncology inpatients from January to December 2016. Cohen's Kappa, sensitivity, specificity and ROC analysis were performed.

**Results:** 270 inpatients were included in the study with the mean age of  $56.3 \pm 12.1$  years old. Of them, 51.8% were male and 74.1% had gastrointestinal cancer. The mean body mass index of patients was  $20.6 \pm 3.0$  kg/m<sup>2</sup>. The PG-SGA tool identified 145 (54.1%) malnourished patients, while BBT identified 105 (38.9%) ones. The BBT had the median consistency, with the Kappa = 0.6. Using the cut-off point  $\geq 4$ , the BBT resulted in a sensitivity of 87.7% and a specificity of 72.6%. On the other hand, BBT with the cut-off point  $\geq 5$  resulted in 67.1% of sensitivity and 94.4% of specificity, AUC = 0.81.

**Conclusion:** The BBT is a practical, informative and valid tool for detecting malnutrition in oncology hospitalized patients. We would recommend using the cut-off point of 4 for screening the risk of malnutrition for oncology inpatients. ...

### Biography

Hoa Nguyen has completed her Master at the age of 26 years and her resident of nutrition at the age of 27 years old from Hanoi Medical University, Vietnam. She is the doctor of Clinical Nutrition Center, Vietnam National Cancer Hospital.

[Webinar on Oncology and Cancer research](#) | Paris, France | June 24-25, 2020

**Citation:** Hoa Nguyen Thi Thanh, Comparison of novel, Bach Mai Boston tool (BBT) and The patient-generated subjective global assessment (PG-SGA) for oncology inpatients *Oncology 2020*, Webinar on Oncology and Cancer research | Paris, France | June 24-25, 2020.