

Predictive Value of the GWTG Score to Heart Failure in South Indian Patients Admitted in ICU

Suresh Yerra¹ Pragathi Gurram²

¹Department of Cardiology, Asian Institute of Gastroenterology— Gachibowli, Hyderabad, Telangana, India

²Department of Cardiology, Sunshine Hospital, Secunderabad, Telangana, India

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Heart failure is one of the most common leading causes for death and it has a high morbidity which is a high burden to health care system.¹ The Get With The Guidelines (GWTG) risk score which was established by Peterson et al in 2010² is one of the scores used for risk stratification in heart failure and guides treatment options. Compared with many other risk calculators in heart failure, the GWTG risk score has small number of variables to be incorporated at the time of admission; so, it is widely applicable. However, there is sparse data available regarding the utility of this GWTG score in our population, especially South Indians. The original article on GWTG score applicability, published in the present issue, is aimed to see the applicability of predicted GWTG risk score of heart failure in the South Indians admitted to intensive cardiac care.

GWTG-HF risk score has several advantages and strengths; the variables which were used are small and can be collected at time of admission. It is quite cost effective and applicable for heart failure with both reduced and preserved ejection fraction as ejection fraction is not considered for risk score calculation. So, it can be widely applicable. Several other models of risk score prediction have more than 20 variables³; they are not feasible and are difficult to use in routine clinical practice as compared with GWTG risk score. The present original article is relevant to publish because of its simplicity in its application.

In the original article as majority (70%) of the patients come under group 2 (**-Table 1**), we think it is better to classify them under categories 2a and 2b, with category 2a having GWTG score 34 to 41 and 2b having GWTG score 42 to 50 so that GWTG-HF risk score can be used for better patient risk quantification, thus facilitating patient triage and encouraging the use of evidence-based therapy in the high-risk patients so that therapy can efficiently be used for high-risk patients (like group 2b than group 2a).

As the GTWG score is applicable in both heart failure with reduced ejection fraction (HFrEF) and heart failure with preserved ejection fraction (HFpEF) we should also study whether this score is correlating with the in-hospital mortality and complications. This differentiation is not done in the study population which can help in the effective treatment strategy in such groups.

As more than 75% of the study group as categorized as ischemic cardiomyopathy (ICMP), in a newly diagnosed case of ICMP treatment strategy regarding viability studies and revascularization (immediate or after stabilization) should be better defined and GTWG score at baseline and post revascularization can be done; the in-hospital mortality and complications in both the groups should be compared.

In the DCMP group weather further diagnostic workup has be done such as cardiac imaging and endomyocardial biopsy (EMB) to diagnose inflammatory cardiomyopathy or infiltrative cardiomyopathy as the treatment strategy varies in such group along with the guideline-directed heart failure therapies.

In the original article brief mention about the available risk stratification models such as Acute Decomp-ensated Heart Failure National Registry (ADHERE) study,⁴ OPTIMIZE-HF,⁵ Enhanced Feedback for Effective Cardiac Treatment (EFFECT), and Outcomes of a Prospective Trial of Intravenous Milrinone for Exacerbations of Chronic Heart Failure (OPTIME-CHF) models^{6,7} have been elucidated and the complexity and limitations of each model have been briefly mentioned.8

In conclusion the GWTG risk score is economical can be widely applicable, and it is readily available at the time of admission, with incorporate of limited variables and to triage, and to risk stratification which helps in implementing effective treatment strategies especially for the countries like India where resources are limited. We can divide the patients in to high-, moderate-, and low-risk groups and develop diagnostic and treatment strategies for better outcomes. Further studies

Address for correspondence Suresh Yerra, MD, DM,

Asian Institute of Gastroenterology–Gachibowli, Hyderabad, Telangana, 500032, India

(e-mail: yerrasuresh3@gmail.com).

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Group	Class of score	No. of patients	Percentage (%)	Predicted mortality rate
Group 1	0-33	22	23	<1%
Group 2	34–50	68	70	1–5%
Group 3	51–57	7	7	5–10%
Group 4	58–61	0	0	10–15%
Group 5	62–65	0	0	15–20%
Group 6	66–70	0	0	20–30%
Group 7	71–74	0	0	30-40%
Group 8	75–78	0	0	40-50%
Group 9	≥79	0	0	>50%

Table 1 GWTG score table

are required incorporating large number of patients into study and to define the treatment strategies and to be incorporated in the management guidelines of heart failure patients.

Conflict of Interest

None declared.

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