

Use of an early warning score to evaluate clinical deterioration in pediatric oncology patients Rivera J¹; Núñez M¹; Hernández C¹; Espinoza S¹; Martínez R¹; Agulnik, A²; Cárdenas A¹; Ellis A¹;Vega L¹; Escamilla G¹.

¹Hospital Infantil Teletón de Oncología. Qro, México. ² St Jude Research Hospital, Memphis, TN.

EVAT

Background

The early warning scales assign a score to clinical observations and generate allows that value identifying patients at risk of deterioration. It has been shown that these signs are present and are detectable hours before a high-risk situation.

Critical PEWS relationship with transfer to ICU					
ICU	Critical PEWS	142 (78%)	ICU transfer	79 (55.6%)	
Consults			No transfer	63 (44.3%)	
(n=182)	Non-critical PEWS	40 (21.9%)	ICU transfer	13 (32%)	
			No transfer	27 (67.5%)	

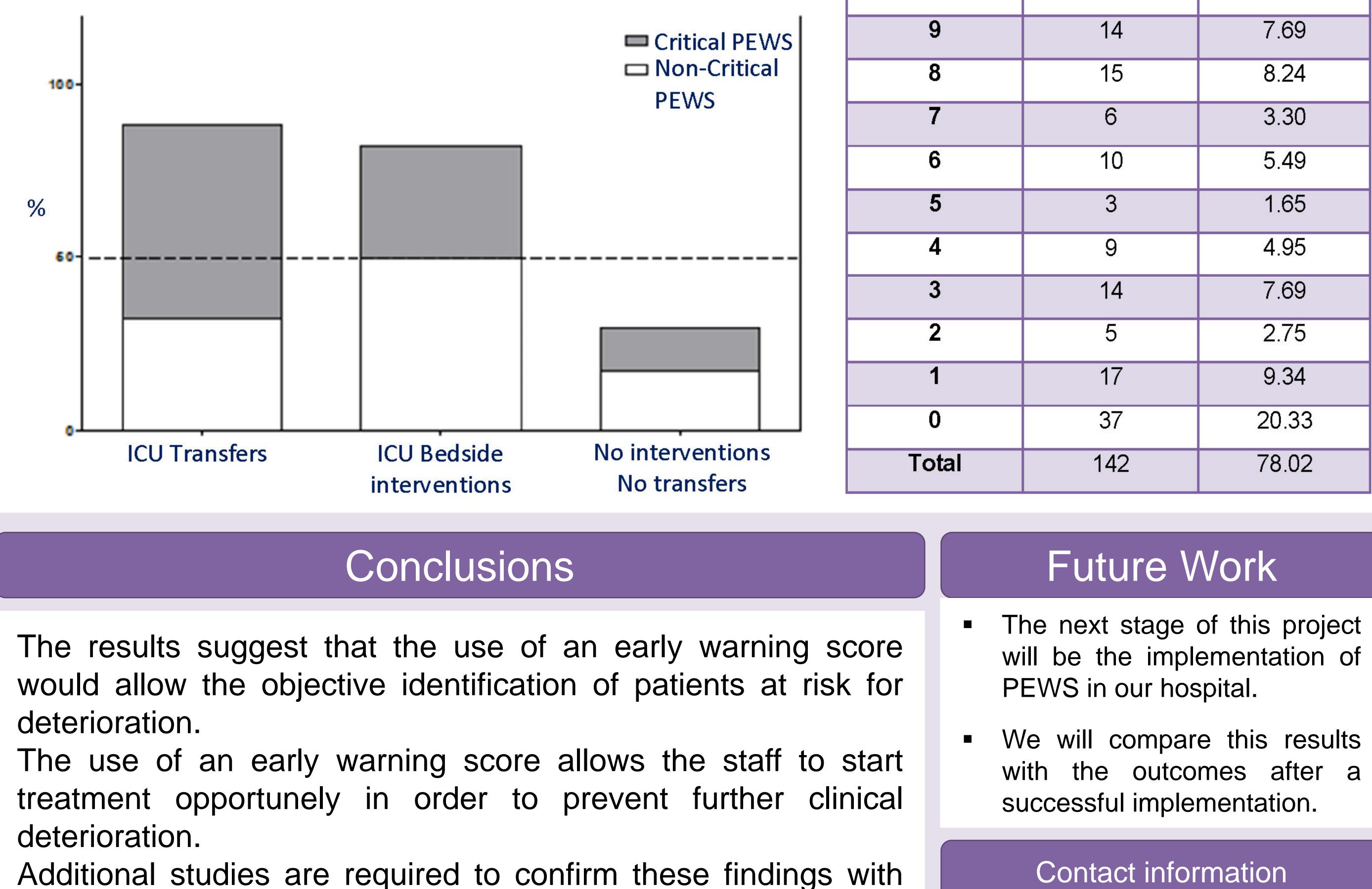
Results

Objectives

Evaluate the use of the PEWS (Pediatric Early Warning Score) score as a marker of early clinical deterioration in pediatric oncology patients that require evaluation by the intensive care team.

Before evaluation by the ICU, 78% of the patients had a critical PEWS. Of the 182 events, 79 were transferred to the ICU with a critical PEWS before the event. Of the remaining 90 events that did not require transfer to the ICU, 65 patients (72.2%) require an intervention to improve their critical condition.

Critical PEWS, ICU transfers, ICU bedside interventions



Frequency of detection of patients who had critical PEWS prior to assessment by the ICU.

Hours before ICU consult	# of records with critical PEWS	%
10	12	6.59
9	14	7.69
8	15	8.24
7	6	3.30
6	10	5.49
5	3	1.65
4	9	4.95
3	14	7.69

Material & methods

128 events were reviewed, corresponding to 71 patients with cancer, that required evaluation by the pediatric intensive care unit (PICU) team between Dec 2013-Oct 2015. A PEWS score was assigned retrospectively to each one of the events before the evaluation by the PICU team. A score of greater than 4 was classified as critical. The events were classified: PICU consult, medical team response





the implementation of the scale and its correlation with the



