




# Transfusion-Associated Circulatory Overload (TACO)

FIGURES FROM THE ANNUAL SHOT REPORTS  
2016-2022

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# TACO pre-transfusion checklist 2022

TACO Checklist	Patient Risk Assessment	YES	NO
	Does the patient have any of the following: diagnosis of 'heart failure', congestive cardiac failure (CCF), severe aortic stenosis, or moderate to severe left ventricular dysfunction?		
	Is the patient on a regular diuretic?		
	Does the patient have severe anaemia?		
	Is the patient known to have pulmonary oedema?		
	Does the patient have respiratory symptoms of undiagnosed cause?		
	Is the fluid balance clinically significantly positive?		
	Is the patient receiving intravenous fluids (or received them in the previous 24 hours)?		
	Is there any peripheral oedema?		
	Does the patient have hypoalbuminaemia?		
	Does the patient have significant renal impairment?		

If Risks Identified	YES	NO
Review the need for transfusion (do the benefits outweigh the risks)?		
Can the transfusion be safely deferred until the issue is investigated, treated or resolved?		

If Proceeding with Transfusion: Assign Actions	TICK
Body weight dosing for red cells	
Transfuse a single unit (red cells) and review symptoms	
Measure fluid balance	
Prophylactic diuretic prescribed	
Monitor vital signs closely, including oxygen saturation	

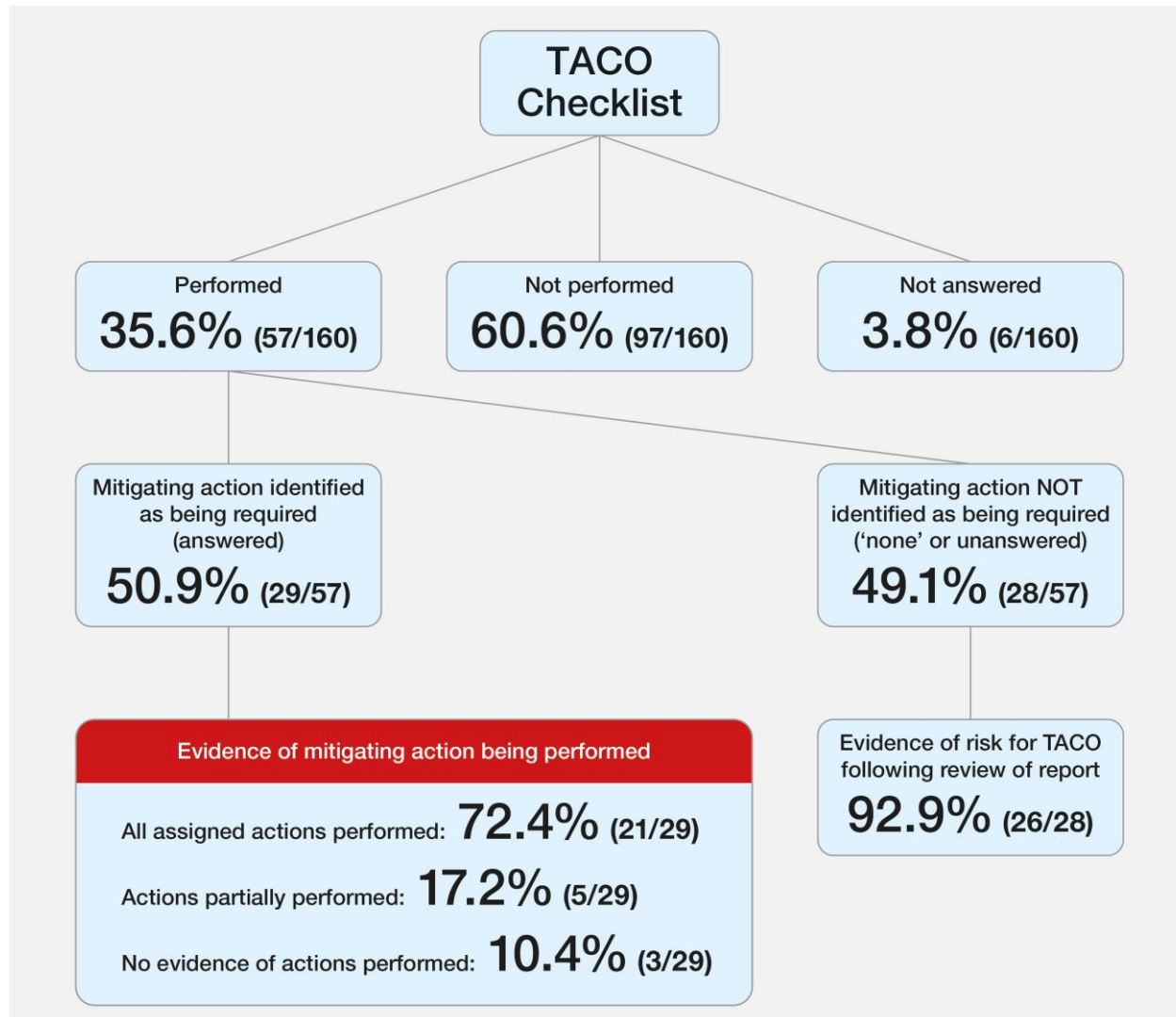
  

<b>Name (PRINT):</b>	
<b>Role:</b>	
<b>Date:</b>	<b>Time (24hr):</b>
<b>Signature:</b>	

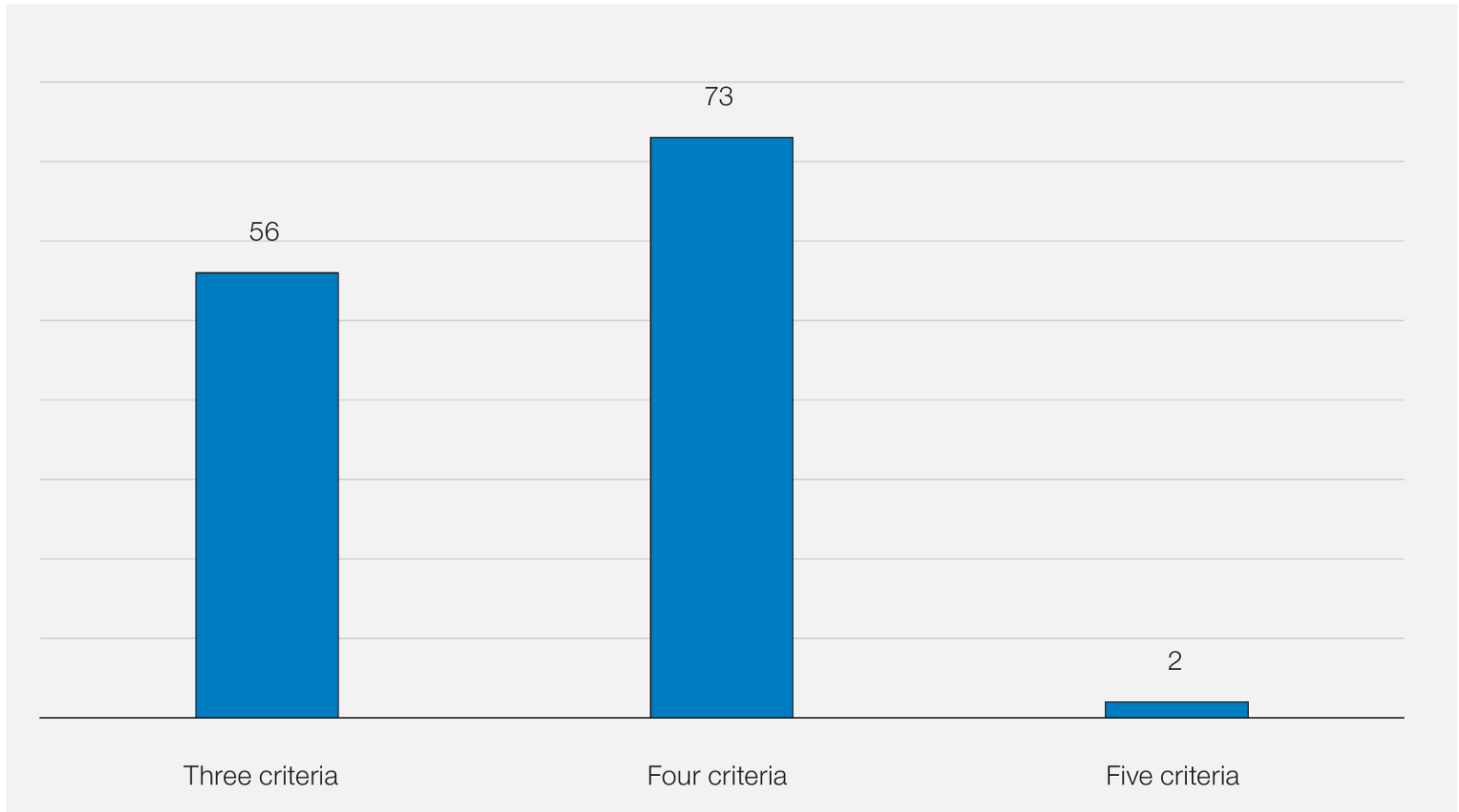
**Due to the differences in adult and neonatal physiology, babies may have a different risk for TACO. Calculate the dose by weight and observe the notes above.**

*TACO=transfusion-associated circulatory overload*

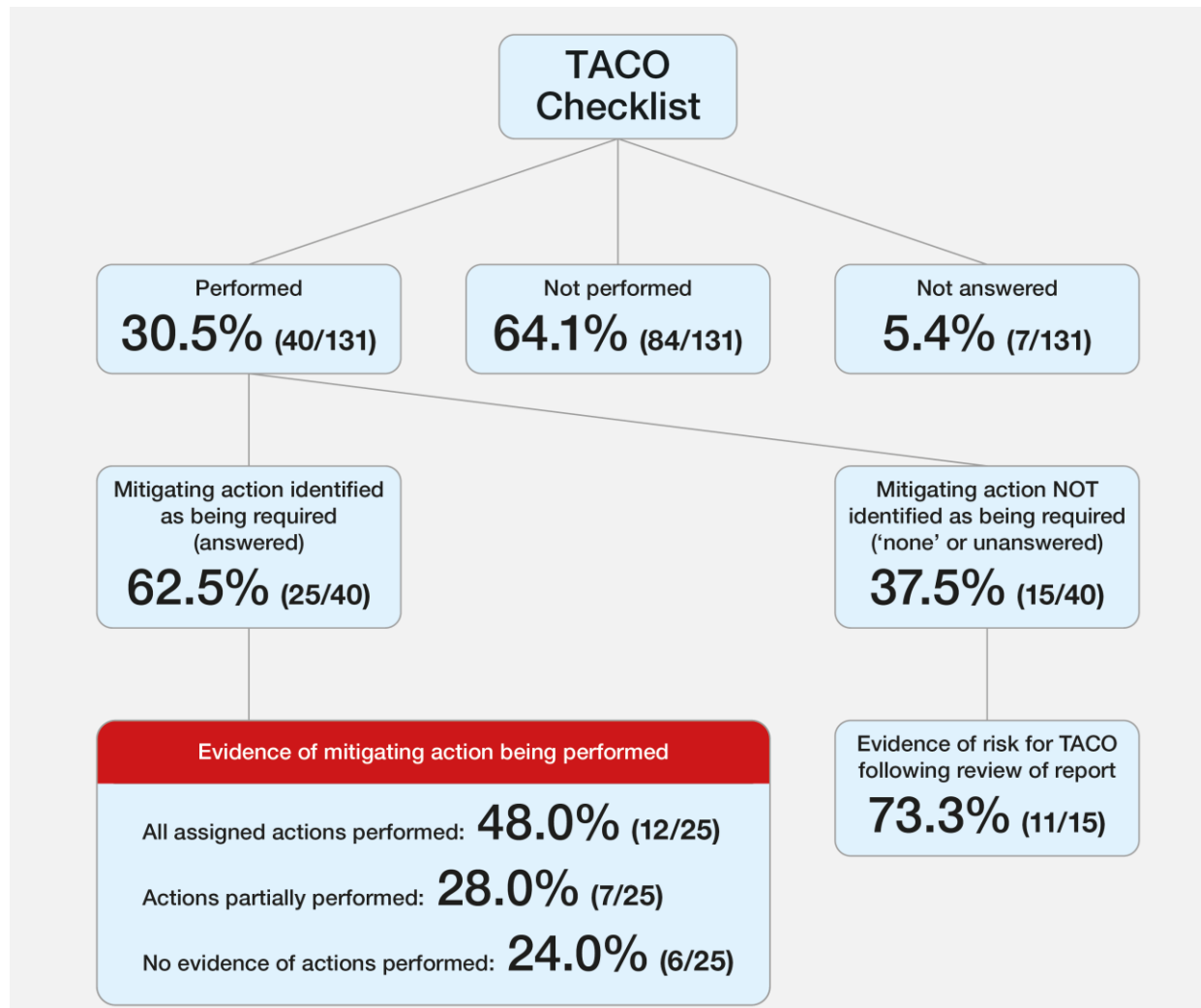
# Use of the checklist to identify patients at risk of TACO and implementation of mitigating actions in 2022



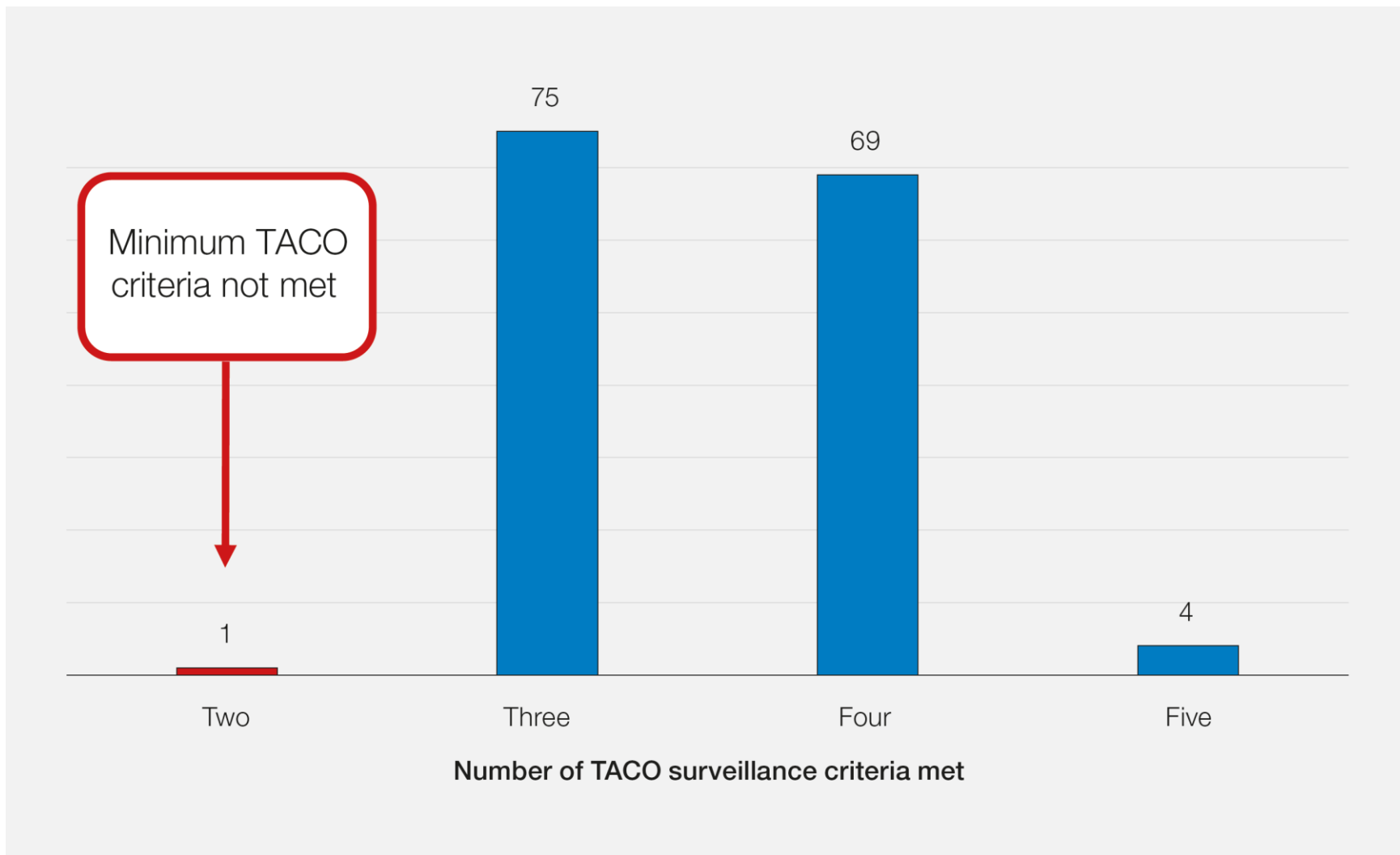
# Number of TACO surveillance criteria versus number of accepted TACO cases in 2021



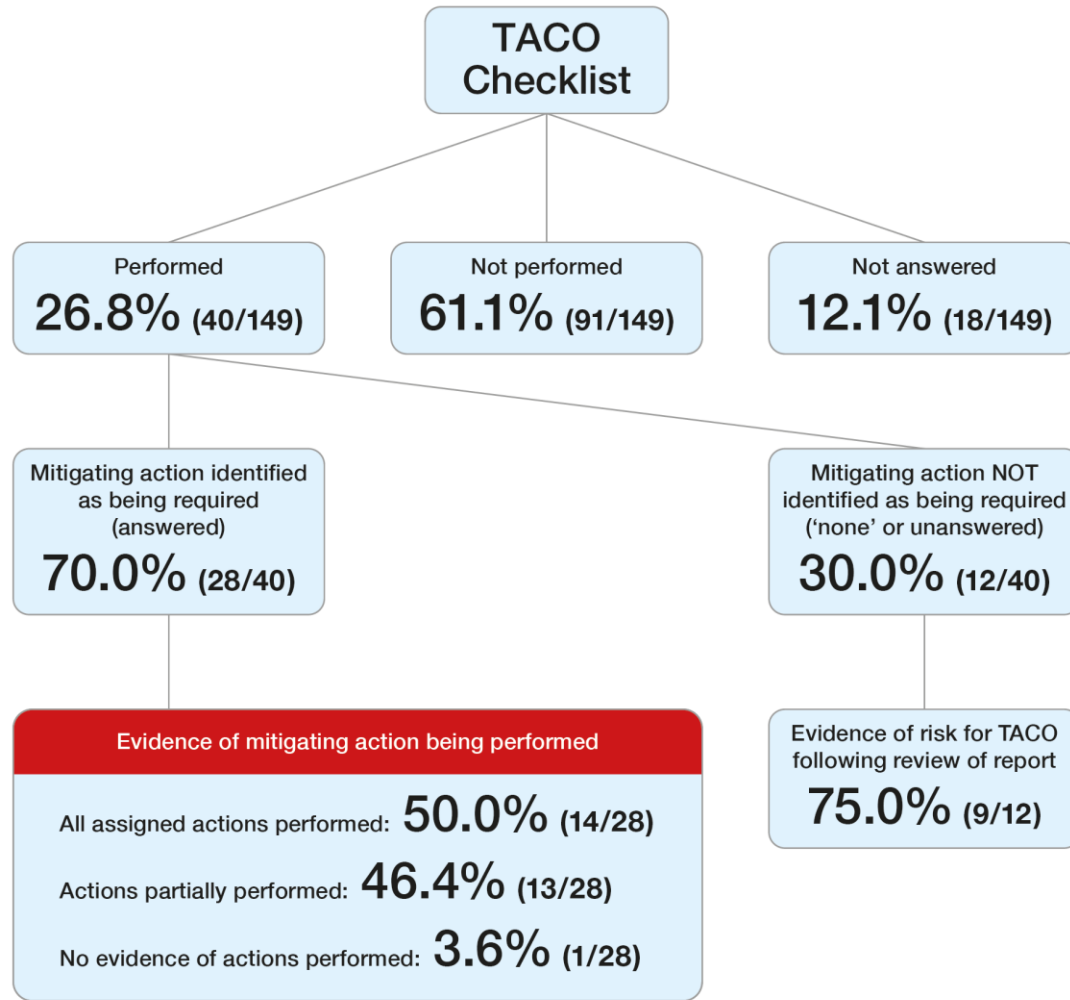
# Use of the checklist to identify patients at risk of TACO and implementation of mitigating actions in 2021






# Number of TACO surveillance criteria versus number of accepted TACO cases in 2020



# Use of the checklist to identify patients at risk of TACO and implementation of mitigations in 2020



# TACO pre-transfusion checklist 2019

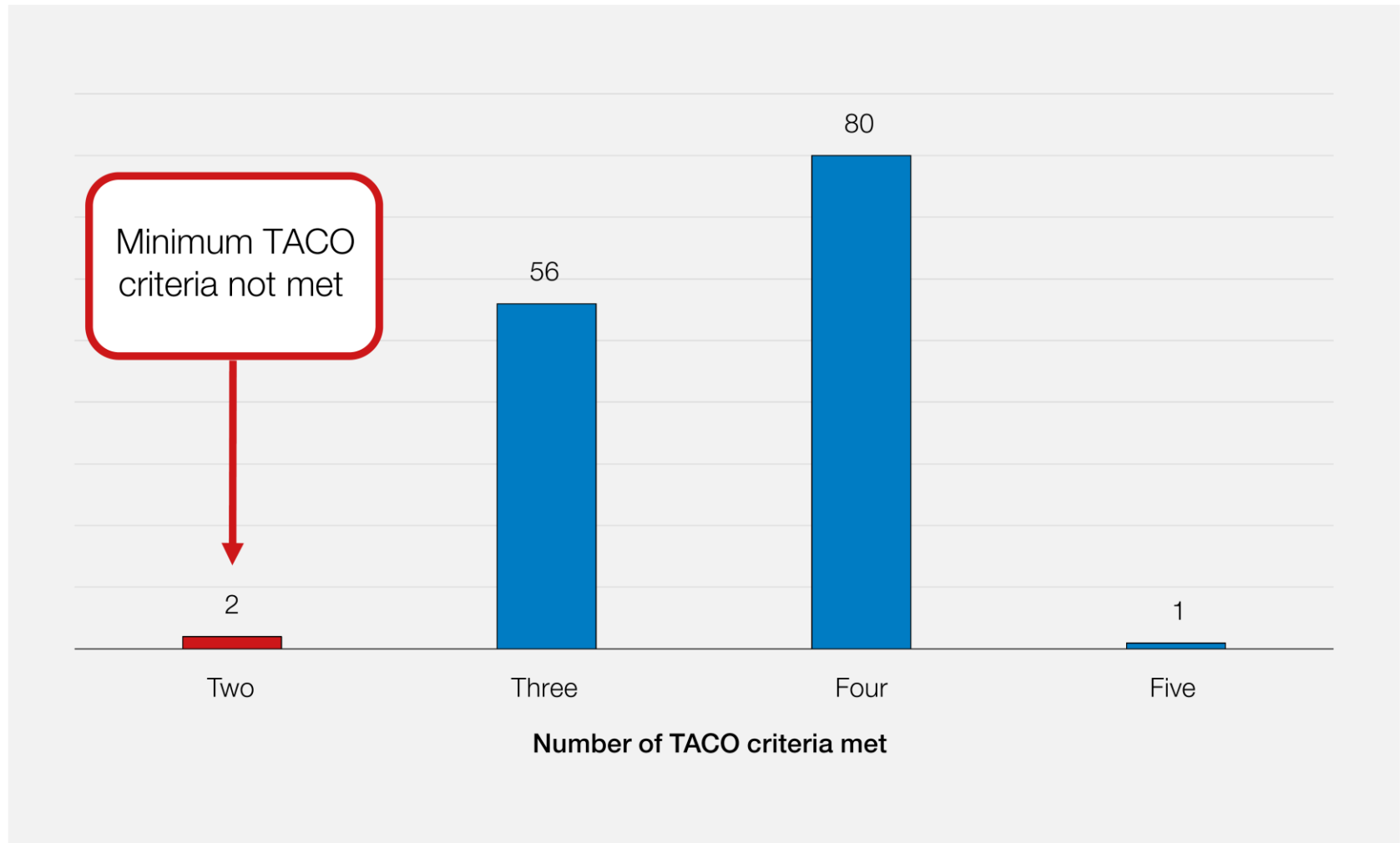
TACO Checklist	Red cell transfusion for non-bleeding patients	If 'yes' to any of these questions
	<p>Does the patient have a diagnosis of 'heart failure' congestive cardiac failure (CCF), severe aortic stenosis, or moderate to severe left ventricular dysfunction?</p> <p>Is the patient on a regular diuretic?</p> <p>Does the patient have severe anaemia?</p>	<div data-bbox="1045 301 1193 568">1</div> <ul style="list-style-type: none"> <li>• Review the need for transfusion (do the benefits outweigh the risks)?</li> </ul>
	<p>Is the patient known to have pulmonary oedema?</p> <p>Does the patient have respiratory symptoms of undiagnosed cause?</p>	<div data-bbox="1045 572 1193 782">2</div> <ul style="list-style-type: none"> <li>• Can the transfusion be safely deferred until the issue can be investigated, treated or resolved?</li> </ul>
	<p>Is the fluid balance clinically significantly positive?</p> <p>Is the patient on concomitant fluids (or has been in the past 24 hours)?</p> <p>Is there any peripheral oedema?</p> <p>Does the patient have hypoalbuminaemia?</p> <p>Does the patient have significant renal impairment?</p>	<div data-bbox="1045 786 1193 1080">3</div> <ul style="list-style-type: none"> <li>• Consider body weight dosing for red cells (especially if low body weight)</li> <li>• Transfuse one unit (red cells) and review symptoms of anaemia</li> <li>• Measure the fluid balance</li> <li>• Consider giving a prophylactic diuretic</li> <li>• Monitor the vital signs closely, including oxygen saturation</li> </ul>

**Due to the differences in adult and neonatal physiology, babies may have a different risk for TACO. Calculate the dose by weight and observe the notes above.**

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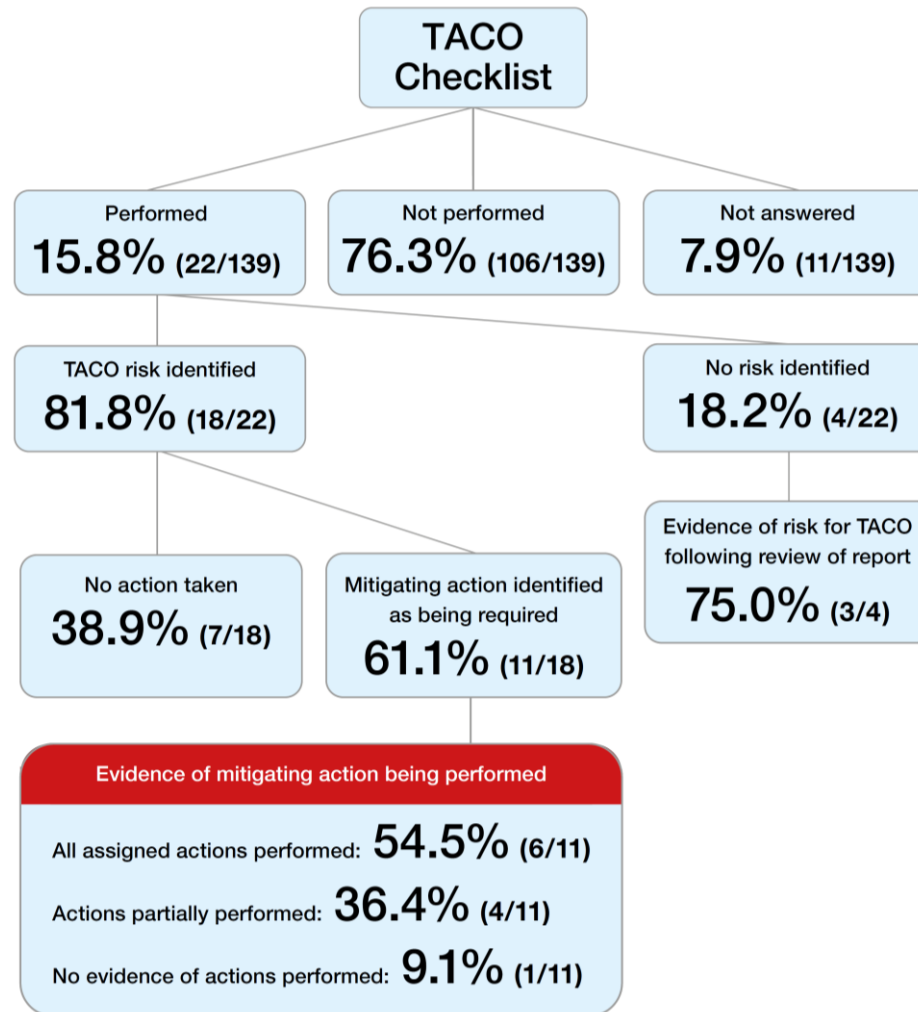


# Number of surveillance criteria versus number of accepted TACO cases in 2019

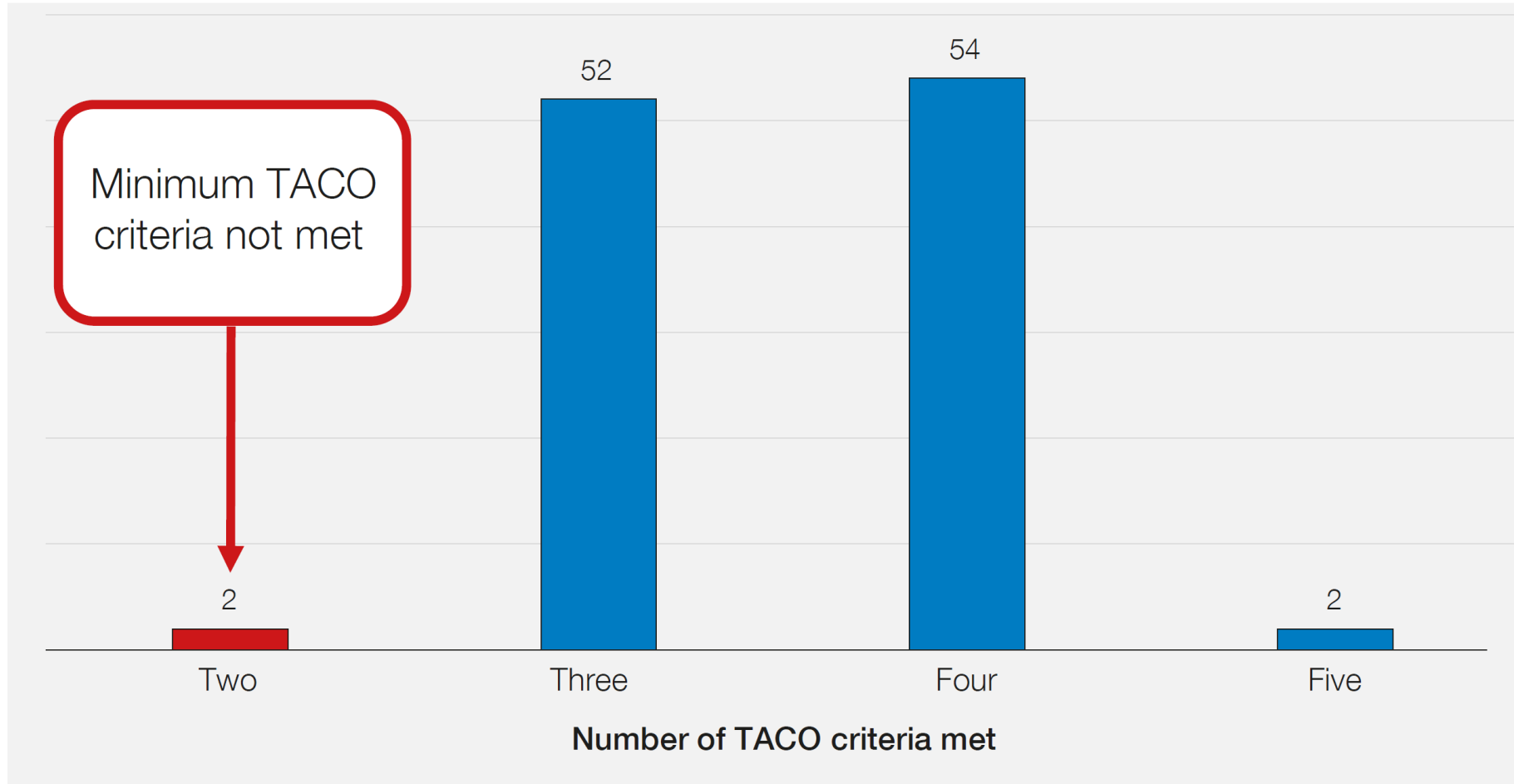


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# Use of the TACO checklist to identify patients at risk of TACO and implementation of mitigations - 2019

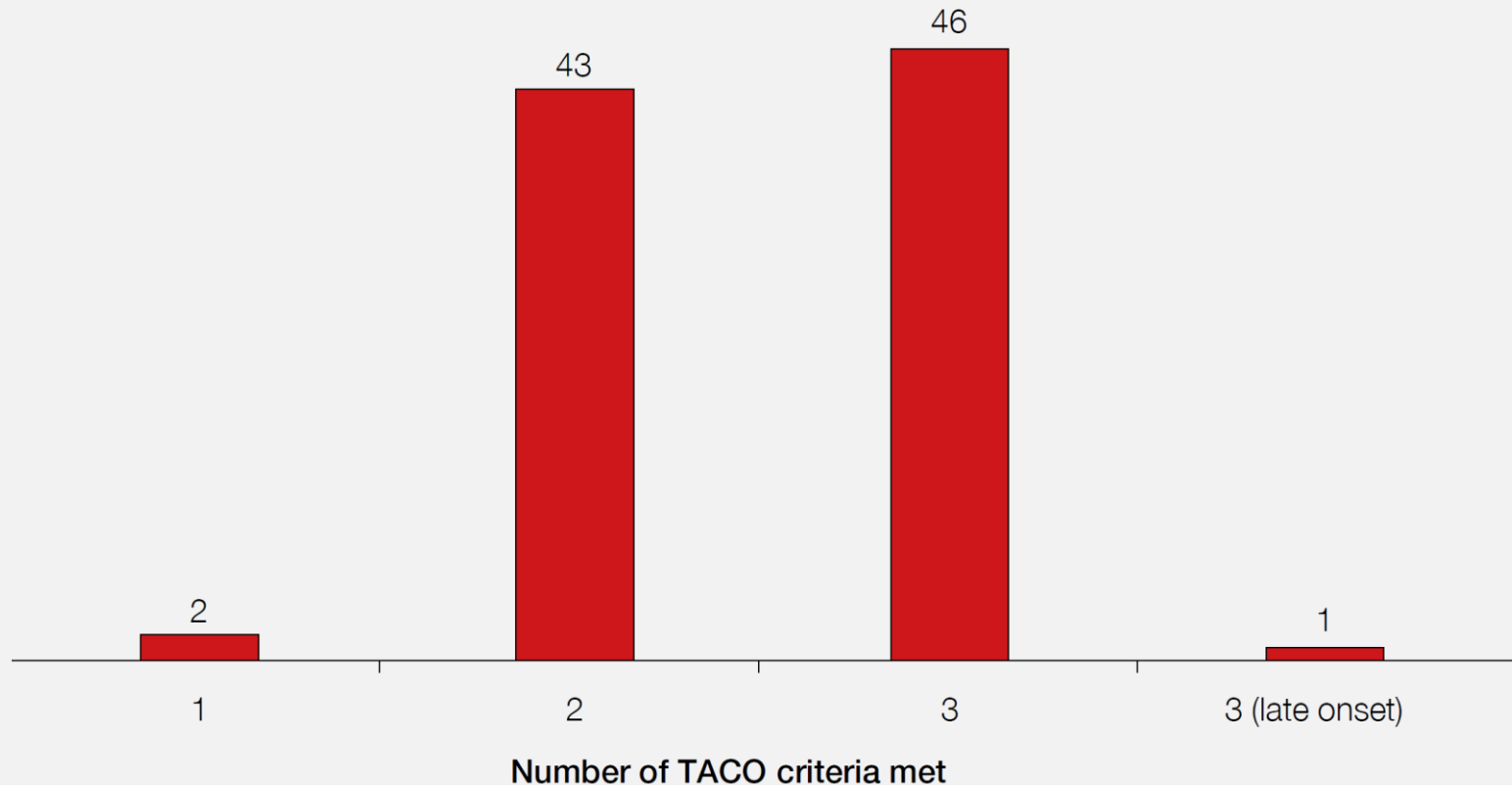


# Analysis of reports by the revised surveillance diagnosis criteria (number of criteria versus number of accepted cases) - 2018



*TACO=transfusion-associated circulatory overload*

# Analysis of reports by the revised surveillance diagnosis criteria - 2017



*TACO=transfusion-associated circulatory overload*

# TACO assessment by three sets of reporting criteria - 2016

