





CREDIBILITY OF SUBGROUP CLAIMS IN HAEMATOLOGY CLINICAL TRIALS

Abstract number: 6ER-026

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Length	Background and importance	
	Interpretation of subgroup analysis is	



potentially important for treatment decisions in medical practice.

Material and methods

Design: Systematic review of Hematology phase III RCT

Period of study: January 2013-October 2019

 Claims of subgroup effect were classified: Strong claim, claim of a likely effect or suggestion of a possible effect based on Sun et al 2009 classification.

•"the 10 criteria for assessing the credibility of a subgroup claim" by Sun et al 2012 were applied. credibility of subgroup claims in haematology RCT

Results

•98 studies reported subgroup analyses.

•24 RCT reported **46 claims of subgroup** effect.

•44 were claims for the **primary** outcome

•34/44 claims for the primary outcome, met 4 or fewer of the 10 credibility





Proportion of claims meeting subgroup criteria for primary outcomes						
	Strong claim	Claim of likely	Suggestion of possible effect (n =	Total		
Criteria	(n = 25)	effect ($n = 2$)	17)	(n = 44)		
Is the subgroup variable a characteristic measured at baseline or after						
randomisation? *	22 (88%)	2 (100%)	14 (82.35%)	38 (86.36%)		
Was the subgroup variable a stratification factor at randomization?	12 (48%)	1 (50%)	2 (11.76%)	15 (34.09%)		
Was the subgroup hypothesis specified a priori?	7 (28%)	0	4 (23.53%)	11 (25%)		
Was the subgroup effect one of a small number of hypothesised effects						
tested (= 5)?</th <th>6 (24%)</th> <th>1 (50%)</th> <th>10 (58.82%)</th> <th>17 (38.63%)</th>	6 (24%)	1 (50%)	10 (58.82%)	17 (38.63%)		
Was the interaction test significant (P < 0.05)?	10 (40%)	0	8 (47.06%)	18 (40.91%)		
Is the significant subgroup effect independent, if they were multiple						
significant interactions? *	13 (52%)	1 (50%)	12 (70.58%)	26 (59.09)		
Was the direction of the subgroup effect correctly prespecified?	0	0	0	0		
Was the subgroup effect consistent with evidence from previously related						
studies?	7 (28%)	1 (50%)	3 (17.65%)	11 (25%)		
Was the subgroup effect consistent across related outcomes?	6 (24%)	0	4 (23.53%)	10 (22.72%)		
Is there indirect evidence that supports the hypothesised interaction						
(biological rationale)?	4 (16%)	0	4 (23.53%)	8 (18.18%)		

