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Efficacy and Safety of a Four-Factor Prothrombin Complex Concentrate in Patients on Vitamin K Antagonists Presenting With Major Bleeding: A Randomized, Plasma-Controlled, Phase IIIb Study Ravi Sarode, Truman J Milling Jr, Majed A Refaai, Antoinette Mangione, Astrid Schneider, Billie L Durn, Joshua N Goldstein



^{*4}F-PCC noninferior to plasma: lower limit of 95% CI more than -10% Farrington-Manning P-value for noninferiority P=0.0045 rejecting null hypothesis of inferiority of 4F-PCC.

*INR <1.3 at 0.5 h after end of infusion. 14F-PCC noninferior to plasma: lower limit of 95% CI more than –10% Farrington-Manning P-value for noninferiority *P*<0.0001 rejecting null hypothesis of inferiority of 4F-PCC; 4F-PCC superior to plasma: lower limit of 95% CI >0.

RESULTS

INR correction was more rapid with 4F-PCC, with 69% reaching an INR \leq 1.3 at 1 hour post-infusion, compared to none in the plasma group.

Figure 3. Time to INR correction (ITT-E population)



Figure 4. Median INR by time point (ITT-E population)



ITT-E population: all patients from the ITT population who had received any portion of study product, who presented with acute major bleeding, and who had an INR >1.3 before infusion with study product.

ITT-S population: all patients from the ITT population who had received any portion of the study product.

Abbreviations

4F-PCC: four-factor prothrombin complex concentrate; AE: adverse event; INR: international normalized ratio; IQR: interguartile ratio; ITT-E: intention-to-treat efficacy; ITT-S: intention-to-treat safety; VKA: vitamin K antagonist.

Reference Sarode R, Milling TJ Jr, Refaai MA, et al. Circulation. 2013;128(11):1234-1243.

*Defined in Table XIV in the online-only Data Supplement.

were considered treatment related.



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Both groups had similar safety profiles including adverse events, serious adverse events, thromboembolic events, and deaths.

No. (%) of patients

Table. Summary of AEs (ITT-S population)

AE	4F-PCC (n=103)	Plasma (n=109)	
Any nonserious AE*	66 (64.1)	71 (65.1)	
Related AE [†]	10 (9.7)	23 (21.1)	
AE leading to treatment discontinuation	0	3 (2.8)	
Serious AE*	32 (31.1)	26 (23.9)	
Related serious AE ⁺	2 (1.9)	4 (3.7)	
AEs of interest			
Deaths to Day 30	6 (5.8)	5 (4.6)	
Deaths to Day 45	10 (9.7)	5 (4.6)	
Related deaths (to Day 45)‡	1 (1.0)	0	
Thromboembolic AE	8 (7.8)	7 (6.4)	
Related thromboembolic AE ⁺	4 (3.9)	3 (2.8)	
Fluid overload or similar cardiac event	5 (4.9)	14 (12.8)	
Related fluid overload or similar cardiac event	0	7 (6.4)	

+Defined as events for which there was a relationship to study treatment in the opinion of the investigator. AEs with missing relationship

\$As assessed by the Safety Adjudication Board; no deaths in either group were classified as related by an investigator.

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