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BACKGROUND

Gynecological abnormalities and underlying A bleeding disorders can both be a contributory (P factor in heavy menstrual bleeding (HMB). > However in approximately half of cases of ех **(**b. HMB no pathology is found at hysterectomy and in less than 20% of the women an st underlying bleeding disorder is found. C Therefore, in a large proportion of women, nc HMB is unexplained. In our previous study, we had the unexpected finding of lower FXI plasma levels in patients with HMB compared to controls (100 vs 124 IU/dL; p<.001)).

AIM

To confirm that FXI plasma levels in patients with HMB are lower than in controls. Furthermore, we want to investigate whether coagulation parameters also other are with HMB without decreased in women obvious deficiencies.





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FXI LEVELS AND COAGULATION PARAMETERS IN WOMEN WITH HEAVY MENSTRUAL BLEEDING

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MATERIAL & METHODS

fter informed consent patients with regular HMB	We included 106 patients with HMB and 53	We co
Pictorial Blood loss Assessment Chart-score	healthy controls; 95% of the women were	are si
100) were included. In all women gynecological	Caucasian. Median age was 43 years (range 18-	The c
xamination was performed, blood was drawn	55) in patients and 33 years (range 20-51 years)	a sim
blood count and haemostatic parameters) and a	in controls (p<.001). The median PBAC score	FXI ir
tandardized questionnaire was filled out.	was 307 in patients versus 75 in controls (p<	conse
ontrols had a regular cycle and subjectively	.001). Twenty-eight percent of patients had a low	
ormal blood loss.	hemoglobin (Hb<12 g/dL) and 28% of the	No diffe
	patients had gynecological abnormalities	were se
	(table 1). FXI levels were significantly lower in the	Compa
	patient group versus the control group (FXI 102	abnorm
	IU/dL vs 113 IU/dL; p=.002), even more	parame
	pronounced when adjusted for age.	•

able 1: Baseline characteristics			
	Patients (n=106)	Controls (n=53)	P-value
Age, y*	43 (18-55)	33 (20-51)	<.001
Age of menarche, y*	13 (9-17)	13 (11-16)	.207
Duration of period, d*	7 (4-14)	5 (3-8)	<.001
Length of cycle, d*	28 (24-35)	28 (25-35)	.064
Body Mass Index*	24.9 (15.2-41.0)	22.2 (17.1-33.5)	<.001
Pictorial bleeding assessment chart score*	307 (105-1063)	75 (15-393)	<.001
Hemoglobin, g/dL**	12.5 (±1.3)	13.3 (±1.0)	<.001
Mean cell volume, fL **	85.8 (±6.4)	89.5 (±4.3)	<.001
Ferritin, ng/mL ** Gynecologic abnormalities in (%)	25.6 (±27.1) 30 (28)	45.2 (±30.6) -	<.001
*Data are given as median (range); **Data are given as mean (±SD).			

RESULTS





CONCLUSION

confirm that FXI levels in women with HMB ignificantly lower compared to controls. other coagulation parameters do not show nilar pattern. Whether this relatively low n patients plays a causative role or is the equence of HMB is not clear.

erences in FVIII, FIX, FXII and VWF:Ag een between patients and controls (table 2). aring patients with and without gynecological nalities, no differences in coagulation eters, including FXI levels, were seen.



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