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Materials & Methods

Subjects: 28 newly diagnosed Hemochromatosis patients were recruited, a group of healthy persons (n=21) without hemochromatosis and not subject to bloodlettings were included as

Exclusion criteria: less than 18 years age, major blood loss or transfusion within the last 3 months, concurrent disease, pregnancy, installed osteosynthesis materials (e.g., after

Methods: fasting blood samples were collected for trace elements (Pb, Hg and Cd) and hematological analyses and serum sample for iron status and clinical chemistry

Statistics: Pre-phlebotomy blood and urine concentrations were compared with post-

phlebotomy values in the same individuals using a prospective, pairwise design. All paired analyses were done in the same analytical run. Wilconox and Spearman's rho were

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Trace elements were measured by inductively-coupled plasma mass spectrometry (ICP-MS) on Perkin Elmer ELAN DRC-e (PerkinElmer, Toronto, Canada) using a standard mode. ^[4] Intervention: all the patients were treated with venesection (450 mL), either weekly or biweekly until normalization of iron parameters, which could take up to 24 bloodlettings.

measurements. Urine samples were also collected for most of the patients.

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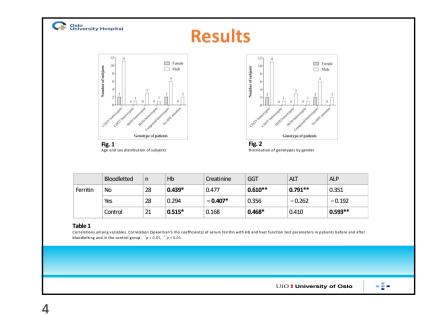
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	Bloodletted	n	Iron	TIBC	Ferritin	нь	Tfsat	Creat	GGT	ALT	ALP
Рb	No	28	- 0.269	0.120	0.195	0.329	- 0.308	0.095	0.477*	0.194	0.388*
	Yes	28	- 0.028	- 0.230	- 0.008	0.450*	- 0.070	- 0.092	0.152	- 0.013	0.465*
	Control	20	0.307	0.161	- 0.037	0.145	0.300	0.120	0.397	0.451*	0.217
Hg ¹	No	22	- 0.510*	0.232	0.016	0.249	- 0.481*	0.431*	0.401	0.111	0.032
	Yes	22	0.108	0.202	- 0.445	• 0.056	- 0.014	0.614**	0.453*	- 0.006	0.231
	Control	16	- 0.031	- 0.187	0.394	0.436	0.124	0.538*	0.438	0.530*	0.436
Cd ¹	No	18	- 0.119	- 0.593**	0.138	0.287	0.007	0.043	0.081	0.050	0.542*
	Yes	20	- 0.255	- 0.615**	- 0.078	- 0.015	- 0.070	- 0.001	- 0.109	0.011	0.376
	Control	8	0.310	0.108	- 0.357	0.190	0.286	- 0.071	0.263	0.095	0.095
Corr and	iron profiles ir		Bloodlett	ter bloodlet ted? Hg 0.5	ting and in t n) [*] 14* (22)	cd (n) ⁺		entrations w	vith Hb, liver	function te	st parameters,
Corr and	elations amon iron profiles ir	n patients b	Bloodlett	ter bloodlet ted? Hg 0.5	ting and in t n) [*] 14* (22)	cd (n) ⁺		entrations w	vith Hb, liver	function te	st parameters,
Corr and	elations amon iron profiles ir	n patients b	Bloodlett	ter bloodlet ted? Hg 0.5 0.1	ting and in t	cd (n)*		entrations w	vith Hb, liver	function te	est parameters,
Corr and	elations amon iron profiles ir	n patients b	Bloodlett Yes	ter bloodlet ted? Hg 0.5 0.1	ting and in t n) [*] 14* (22) 82 (22)	cd (n) [†] 0.407(18) 0.448 (20)		entrations w	vith Hb, liver	function te	st parameters,
Corr and	elations amon iron profiles ir	Pb	Bloodlett No Yes Control	ter bloodlet ted? Hg 0.5 0.1	ting and in t n) [*] 14* (22) 82 (22)	Cd (n) [*] 0.407(18) 0.448 (20) 0.922** (8)		entrations w	vith Hb, liver	function te	st parameters,
Corr and	elations amon iron profiles ir	Pb	Bloodlett No Yes Control No	ter bloodlet ted? Hg 0.5 0.1	ting and in t n) [*] 14* (22) 82 (22)	Cd (n) [*] 0.407(18) 0.448 (20) 0.922** (8) 0.159 (15)	up		vith Hb, liver	function te	st parameters,
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Corr	relations amon iron profiles ir	Pb	Bloodlett No Yes Control No Control	ter bloodlet ted? Hg 0.5 0.1 0.6	ting and in t n) [*] 14* (22) 82 (22)	Cd (n) [†] 0.407(18) 0.448(20) 0.922** (8) 0.159(15) - 0.388(16) 0.760(7)	Table 3 Correla	ations amor	ng variables.	Correlation) (Spearman's ri
Corr	relations amon iron profiles ir	Pb	Bloodlett No Yes Control No No No	ter bloodlet ted? Hg 0.5 0.1 0.6 NA NA	ting and in t n) [*] 14* (22) 82 (22)	Cd (n) [†] 0.407(18) 0.448(20) 0.922** (8) 0.159(15) - 0.388(16) 0.760(7) 0.454(15)	Table 3 Correla	ations amor ents) betwe	ng variables. Seen trace me	Correlation	st parameters, (Spearman's rh rations in patie ontrol group
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