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### Leven en sterven langs de Limes : het fysisch-antropologisch onderzoek van vier grafveldpopulaties uit de noordelijke grenszone van Germania Inferior in de Vroeg- en Midden-Romeinse tijd

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## Bijlage III. Moers Asberg

III-1. Gewichtsverdeling van de crematieresten: totaal gewicht, de grote en kleine fractie en de skeletdelen per grafcategorie.

GRAFTYPE		N	Minimum	Maximum	Mean	Std. Deviation	Skewness
Bg	TOTAAL	18	6	337	77.78	92.923	1.884
	GEWICHT						
	>10MM	18	5	262	64.22	75.496	1.684
	<10MM	18	0	75	13.56	18.872	2.463
	NEURO	18	0	49	11.33	13.293	1.736
	VISC	18	0	6	1.00	1.680	1.925
	AX	18	0	37	6.72	10.083	1.954
	DIAF	18	1	180	39.89	51.267	1.982
	EPI	18	0	35	5.28	9.638	2.339
Bs	TOTAAL	8	10	180	80.38	81.688	.588
	GEWICHT						
	>10MM	8	10	148	63.25	48.482	.681
	<10MM	8	0	47	17.13	18.011	.779
	NEURO	8	0	22	9.00	7.892	.684
	VISC	8	0	3	.50	1.069	2.339
	AX	8	0	16	5.00	5.477	1.356
	DIAF	8	7	122	44.25	41.272	1.012
	EPI	8	0	20	4.50	8.580	2.318
Bu	TOTAAL	25	1	445	178.96	158.062	.392
	GEWICHT						
	>10MM	25	0	350	139.56	119.332	.271
	<10MM	25	0	185	39.40	46.636	1.601
	NEURO	25	0	94	22.20	22.614	1.456
	VISC	25	0	20	2.68	4.589	2.650
	AX	25	0	81	20.56	24.199	1.261
	DIAF	25	0	248	84.88	78.558	.550
	EPI	25	0	42	9.24	12.531	1.714
U	TOTAAL	18	14	1628	559.61	483.860	.853
	GEWICHT						
	>10MM	18	11	1408	444.78	418.778	.980
	<10MM	18	3	270	114.83	81.895	.329
	NEURO	18	3	185	58.67	49.425	1.014
VISC	18	0	44	11.61	12.603	1.359	

	AX	18	0	370	88.06	103.928	1.694
	DIAF	18	2	677	232.11	219.676	.739
	EPI	18	0	210	54.33	66.922	1.198
<b>Us</b>	TOTAAL	20	45	2123	656.70	668.880	1.041
	GEWICHT						
	>10MM	20	19	1628	536.40	547.605	.939
	<10MM	20	4	495	120.30	131.222	1.556
	NEURO	20	4	244	72.45	73.877	1.260
	VISC	20	0	72	13.85	18.408	2.036
	AX	20	2	568	124.30	160.988	1.688
	DIAF	20	6	730	259.75	246.497	.529
	EPI	20	0	304	66.05	80.947	1.670

III-2. F-toets derdemachtswortel van totaal gewicht: graftype en gewicht.

Tukey HSD

(I) (J) TYPECODE		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
<b>1(Bu)</b>	2	-2.72*	.727	.003	-4.75	-.69
	3	-2.49*	.750	.011	-4.58	-.40
	4	1.13	.750	.562	-.96	3.22
	5	.85	.985	.911	-1.90	3.59
<b>2(Us)</b>	1	2.72*	.727	.003	.69	4.75
	3	.23	.788	.998	-1.96	2.43
	4	3.85	.788	.000	1.65	6.04
	5	3.56*	1.014	.006	.74	6.39
<b>3(U)</b>	1	2.49*	.750	.011	.40	4.58
	2	-.23	.788	.998	-2.43	1.96
	4	3.62*	.808	.000	1.36	5.87
	5	3.33*	1.030	.015	.46	6.20
<b>4(Bg)</b>	1	-1.13	.750	.562	-3.22	.96
	2	-3.85*	.788	.000	-6.04	-1.65
	3	-3.62*	.808	.000	-5.87	-1.36
	5	-.28	1.030	.999	-3.16	2.59
<b>5(Bs)</b>	1	-.85	.985	.911	-3.59	1.90
	2	-3.56*	1.014	.006	-6.39	-.74
	3	-3.33*	1.030	.015	-6.20	-.46
	4	.28	1.030	.999	-2.59	3.16

\* The mean difference is significant at the .05 level.

**III-3. F-toets derdemachtswortel transformatie totaalgewicht: graftype en gewicht.**

Tukey HSD

GRAFTYPE	N	Subset for alpha = .05	
		Subset 1	Subset 2
Bg	18	3.73	
Bs	8	4.01	
Bu	25	4.06	
U	18		7.34
Us	20		7.58

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 15.332.

b The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

**III-4. Fragmentatie van de crematieresten per grafcategorie.**

GRAFTYPE	N	Minimum	Maximum	Mean	Std. Deviation	Skewness
Bu	25	1	7	4.60	1.500	-.692
Us	20	2	9	6.60	2.326	-.629
U	18	2	9	5.78	2.390	.005
Bg	18	1	7	3.72	1.674	-.098
Bs	8	3	6	4.13	.991	.362

**III-5. F -toets 3<sup>e</sup> machtstransformatie fragmentatie per grafcategorie.**

Tukey HSD

GRAFTYPE	N	Subset for alpha = .05		
		Subset 1	Subset 2	Subset 3
Bg	18	1.51		
Bs	8	1.60	1.60	
Bu	25	1.64	1.64	1.64
U	18		1.76	1.76
Us	20			1.85

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 15.332.

b The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

III-6. Gewicht per geslachts- en leeftijdsgroep.

GESLACHT	N	Minimum	Maximum	Mean	Std. Deviation	Skewness
Vrouw	18	28	1628	441.33	433.795	1.528
Man	26	45	2123	618.85	530.343	1.494
<b>LEEFTIJD</b>						
0-7	13	11	244	75.15	64.380	1.553
7-14	4	18	92	63.75	32.294	-1.379
14-20	1	62	62	62.00		

III-7. F-toets 3<sup>e</sup> machtstransformatie totaal gewicht: geslacht en leeftijdsgroepen).

Tukey HSD

	N	Subset for alpha = .05
		Subset 1      Subset 2
7-13	4	3.87
0-6	13	3.92
Vrouw	18	6.75
Man	26	7.90

De categorie 14-20 jaar is hierbij niet opgenomen omdat dit slechts één individu betreft.

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 9.503.

b The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

III-8. Gewicht per geslachts- en leeftijdsgroep en grafcategorie.

GRAFTYPE	Geslacht/leeftijd	Mean	N	Std. Deviation
<b>Bg</b>	Man	171.00	3	87.892
	Vrouw	166.00	3	153.013
	0-7	19.33	3	7.371
	7-14	18.00	1	.
<b>Bs</b>	Man	155.00	1	
	7-14	85.50	2	9.192
<b>U</b>	Man	685.71	7	371.895
	Vrouw	948.40	5	476.816
	0-7	103.20	5	90.491
<b>Us</b>				

Bu	Man	1176.14	7	603.888
	Vrouw	495.00	3	250.024
	0-7	80.60	5	29.348
	7-14	68.00	1	.
	14-20	62.00	1	.
	Man	298.63	8	149.136
	Vrouw	174.14	7	126.739
	0-7			
	7-14			

### III-9. Fragmentatie per geslachts- en leeftijdsgroep.

LEEFTIJD	N	Minimum	Maximum	Mean	Std. Deviation	Skewness
Vrouw	18	4	9	5.83	2.007	.355
Man	26	4	9	6.50	1.726	-.051
0-7	13	1	5	3.08	1.382	-.160
7-14	4	4	7	4.75	1.500	2.000
14-20	1	4	4	4.00		

### III-10. F-toets 3<sup>e</sup> machtstransformatie fragmentatie: geslacht en leeftijdsgroepen.

Tukey HSD

	N	Subset for alpha = .05	
		Subset 1	Subset 2
0-6	13	1.42	
7-14	4		1.67
Vrouw	18		1.78
Man	26		1.85

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 9.503.

b The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

III-11. Chi-square test: 1<sup>e</sup> versus 2<sup>e</sup> eeuw per graftype.

<b>GRAFTYPE</b>	<b>1e eeuw (n graven)</b>	<b>2e eeuw (n-graven)</b>	<b>Som Chi- kwadraat coefficient</b>	<b>p-waarde</b>
<b>Bg</b>	7	11	0.889	0.3
<b>Bs</b>	4	4	0.000	0.99
<b>U</b>	7	10	0.529	0.5
<b>Us</b>	16	4	7.200	<b>0.005 (sign.)</b>
<b>Bu</b>	8	18	4.840	<b>0.025 (sign.)</b>