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Corrigendum

Aromatic Acids in Urine of Healthy Infants, Persistent Hyperphenylalaninemia, and Phenylketonuria, before and after Phenylalanine Load

By S. Rampini *et al.*

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p. 704—Under *Subjects and Methods*, weight of the premature infants at examination should have appeared as 1,990–2,500 g rather than 2,990–2,500 g. Furthermore, the healthy full term infants studied were seven.

p. 707—Under *Aromatic Acids in Urine*, the final sentence should have appeared as “The reported values for phenylacetic acid do not include phenylacetic acid originating from phenylacetylglutamine.”

p. 707—Under *Discussion*, the final sentences should have appeared as “Blau (5) found also a normal aromatic acid excretion in three patients with hyperphenylalaninemia. The normal or only very slightly elevated excretion of phenylketonuria metabolites in these patients is due to the fact that the increased level of phenylalanine in plasma in persistent hyperphenylalaninemia is in general moderate and insufficient to cause significant overproduction of unusual metabolites.”

pp. 705–708—Tables 2–6 should have appeared as follows:

Table 2. Oral L-phenylalanine load on low phenylalanine diet¹

	Phenylalanine in plasma, mg/100 ml					
	0 hr	1 hr	2 hr	3 hr	4 hr	24 hr
Phenylketonuria						
Phenylalanine						
Mean	3.25	19.34	19.69	21.61	21.03	18.13
s	2.33	6.91	6.96	5.30	6.14	4.73
Δ^2						
Mean		16.09	16.44	18.36	17.78	14.88
s		5.10	5.55	4.47	4.58	4.27
Persistent hyperphenylalaninemia						
Phenylalanine						
Mean	4.46	20.27	19.69	20.33	18.55	11.51
s	2.14	2.41	1.33	4.08	0.46	0.77
Δ^2						
Mean		15.81	15.23	16.36	14.08	7.05
s		0.26	0.80	1.94	1.67	2.91

¹ Phenylalanine in plasma (milligrams per 100 ml; mean and s) in seven patients with phenylketonuria and two with persistent hyperphenylalaninemia.

² Difference between the postload concentration and the zero time value.

Table 3. Aromatic acids in urine in six patients with phenylketonuria on free diet before and after phenylalanine load

	Aromatic acids in urine, $\mu\text{g}/\text{mg}$ creatinine								
	Basal ¹			After load					
				0–4 hr			4–24 hr		
Mean	s	Range	Mean	s	Range	Mean	s	Range	
Phenylacetic acid	46	17	16–62	71	36	42–138	88	51	16–168
Mandelic acid	19	7.7	10–30	46	30	18–96	48	27	20–98
Phenyllactic acid	531	735	29–1,820	1,156	1,500	95–3,336	1,170	1,108	140–2,940
<i>o</i> -Hydroxyphenylacetic acid	65	27	33–110	131	80	72–282	204	132	102–460
<i>p</i> -Hydroxyphenylacetic acid	60	89	14–240	64	93	13–250	62	61	17–178
Phenylpyruvic acid	371	363	33–1,010	1,068	767	162–1,812	1,282	1,076	168–2,680
<i>m</i> -Hydroxyphenylhydracrylic acid	12	8.3	2.5–24	24	16	5.8–46	15	7.7	5.6–26
Homovanillic acid	8.2	2.8	3.8–12	7.9	3.8	3.6–14	12	6.2	1.8–18
<i>p</i> -Hydroxyphenyllactic acid	121	159	22–440	120	152	15–420	225	198	26–540
3-Methoxy-4-hydroxymandelic acid	8.0	2.4	6–11	27	26	7–78	16	7.8	5.4–26
<i>p</i> -Hydroxyphenylpyruvic acid	39	33	10–96	53	43	14–132	53	32	24–96

¹ For the individual values see Reference 32.

Table 4. Aromatic acids in urine in healthy infants before and after phenylalanine load

	Aromatic acids in urine, µg/mg creatinine								
	Basal (n= 10) ¹			After load (n = 9)					
				0-4 hr			4-24 hr		
	Mean	s	Range	Mean	s	Range	Mean	s	Range
Phenylacetic acid	0.1	0.3	nd ² -1.1	0.3	0.9	nd-2.6	0.2	0.7	nd-2.0
Mandelic acid	1.1	0.7	nd-1.9	2.0	1.3	nd-4.1	1.5	1.1	nd-3.7
Phenyllactic acid	1.8	1.3	<1-5	1.6	1.0	<1-3.2	1.8	1.2	<1-4
<i>o</i> -Hydroxyphenylacetic acid	1.3	1.8	<1-6.1	1.6	1.3	<1-4.2	0.8	0.5	<1-1.8
<i>p</i> -Hydroxyphenylacetic acid	60	39	21-140	93	95	2.1-314	76	49	21-182
Phenylpyruvic acid	0.3	0.4	nd-1.4	0.3	0.5	nd-1.4	0.2	0.3	nd-<1
<i>m</i> -Hydroxyphenylhydracrylic acid	3.9	5.5	nd-17	8.7	12	nd-35	5.2	7.8	nd-20
Homovanillic acid	17	11	3.5-45	22	12	10-44	16	5.4	6.7-22
<i>p</i> -Hydroxyphenyllactic acid	28	34	4-110	54	124	4.4-384	36	49	3.6-146
3-Methoxy-4-hydroxymandelic acid	8.9	3.0	2.8-13	9.0	3.2	4.8-14	8.6	3.1	4.8-14
<i>p</i> -Hydroxyphenylpyruvic acid	15	29	<1-92	32	79	<1-242	17	27	<1-78

¹ For the individual values see Reference 32.² nd: not detectable.Table 5. Aromatic acids in urine in two patients with persistent hyperphenylalaninemia before and after phenylalanine load¹

	Aromatic acids in urine, µg/mg creatinine					
	On low phenylalanine diet			On free diet		
	Basal	After load		Basal	After load	
		0-4 hr	4-24 hr		0-4 hr	4-24 hr
Phenylacetic acid	nd ²	nd	nd	1.8-2.7	50-108	56-120
Mandelic acid	<1-4.2	2.4-3	<1-3.8	<1-8	2-12	4-28
Phenyllactic acid	<1-3.4	<1-1.8	<1-1	3.3-4	12-20	16-38
<i>o</i> -Hydroxyphenylacetic acid	<1-2.2	1-1	<1-4.9	6-18	38-54	62-168
<i>p</i> -Hydroxyphenylacetic acid	36-51	16-66	22-92	36-48	50-58	68-90
Phenylpyruvic acid	nd	nd	nd-<1	<1-4	28-42	34-128
<i>m</i> -Hydroxyphenylhydracrylic acid	2.6-6.2	<1-10	2.2-7.4	<1-2.8	<1-<1	<1-<1
Homovanillic acid	5.9-12	7.4-7.6	6.6-11	6-13	10-16	16-20
<i>p</i> -Hydroxyphenyllactic acid	1.1-14	3-4.6	3.8-5.9	10-17	18-20	24-28
3-Methoxy-4-hydroxymandelic acid	7.4-22	8.4-12	8.8-11	<1-10	4-8	4-12
<i>p</i> -Hydroxyphenylpyruvic acid	1.5-7.4	<1-<1	<1-9.2	<1-10	4-34	17-26

¹ Individual values for the two patients with persistent hyperphenylalaninemia.² nd: not detectable.

Table 6. Aromatic acids in urine in seven patients with phenylketonuria on low phenylalanine diet before and after phenylalanine load

	Aromatic acids in urine, $\mu\text{g}/\text{mg}$ creatinine								
	Basal			After load					
				0–4 hr			4–24 hr		
	Mean	s	Range	Mean	s	Range	Mean	s	Range
Phenylacetic acid	0.1	0.2	nd ¹ –<1	25	19	6–61	48	47	4.8–144
Mandelic acid	2.4	2.5	<1–6.8	4.3	2.9	<1–8	3.7	2.9	<1–8.9
Phenyllactic acid	1.1	1.0	<1–3	5.6	5.1	<1–16	9	5.1	1.6–14
<i>o</i> -Hydroxyphenylacetic acid	1.1	0.3	<1–1.5	12	4.4	5–19	27	18	10–66
<i>p</i> -Hydroxyphenylacetic acid	249	501	25–1272	66	65	19–208	71	76	19–238
Phenylpyruvic acid	1.1	1.1	nd–2.5	24	31	3–78	47	44	7.5–120
<i>m</i> -Hydroxyphenylhydracrylic acid	22	13	11–43	19	16	5.2–44	11	9.1	1.7–28
Homovanillic acid	16	4.3	9–21	13	5.9	5.2–22	11	2.7	8.4–16
<i>p</i> -Hydroxyphenyllactic acid	6.4	4.2	2.8–13	5.7	6.5	<1–19	8.2	8.8	2.3–25
3-Methoxy-4-hydroxymandelic acid	9.8	4.0	5.4–15	12	7.8	5.2–28	9.1	7.2	2–24
<i>p</i> -Hydroxyphenylpyruvic acid	6.5	1.9	3.6–8.5	6.5	5.9	1.3–19	11	11	1.4–28

¹ nd: not detectable.