Supplementary Table 1. Age-specific reference ranges of Pi (mg/dL)

Age group	Abbott ARCHITECT		Beckman DxC		Roche cobas 6000		Siemens Vista	
	Female	Male	Female	Male	Female	Male	Female	Male
0–14 Days	5.6-10.5	5.6-10.5	5.9-11.3	5.9-11.3	5.3-9.8	5.3-9.8	5.3-10	5.3-10
15 Days–1 year	4.8-8.4	4.8-8.4	5.0-9.0	5.0-9.0	4.6-7.9	4.6-7.9	4.6-8.0	4.6-8.0
2–5 Years	4.3-6.8	4.3-6.8	4.5-7.2	4.5-7.2	4.1-6.4	4.1-6.4	4.1-6.5	4.1-6.5
6–13 Years	4.1-5.9	4.1-5.9	4.3-6.3	4.3-6.3	4.0-5.6	4.0-5.6	4.0-5.7	4.0-5.7
14–16 Years	3.2-5.5	3.5-6.2	3.3-5.9	3.7-6.5	3.1-5.3	3.5-5.8	3.1-5.3	3.4-5.9
17–19 Years	2.9-5.0	2.9-5.0	3.0-5.3	3.0-5.3	2.9-4.8	2.9-4.8	2.9-4.8	2.9-4.8

Pi, inorganic phosphorus.

Adapted from Adeli et al. Crit Rev Clin Lab Sci 2017;54:358–413.⁵³⁾

Supplementary Table 2. Age and sex-specific reference ranges of ALP (U/L)

Age group	Abbott ARCHITECT		Beckman DxC		Roche cobas 6000		Siemens Vista	
	Female	Male	Female	Male	Female	Male	Female	Male
0–14 Days	90-273	90-273	78-234	78-234	83-248	83-248	82-249	82-249
15 Days–1 year	134-518	134-518	116-442	116-442	122-469	122-469	122-473	122-473
2–10 Years	156-369	156-369	134-315	134-315	142-335	142-335	142-336	142-336
11–13 Years	141-460	141-460	122-393	122-393	129-417	129-417	128-420	128-420
14–15 Years	62-280	127-517	55-240	110-441	57-254	116-468	55-255	115-471
16–17 Years	54-128	89-365	48-111	78-312	50-117	82-331	49-116	81-333
18–19 Years	48-95	59-164	43-83	52-141	45-87	55-149	43-86	53-149

ALP, alkaline phosphatase.

Adapted from Adeli et al. Crit Rev Clin Lab Sci 2017;54:358-413. 53)

Supplementary Table 3. Age-specific normal values of TP/GFR (mg/dL)

Age group	TP/GFR (mean±SD)
Newborn-1 month	7.0±1.1
1 Month–2 years	5.1±0.9
3–12 Years	4.6±0.6
13–16 Years	4.1±0.6
17–18 Years	3.3±0.3

TP/GFR, ratio of tubular reabsorption of phosphate to glomerular filtration rate.

Adapted and modified from Stark et al. Nephron 1986;44:125-8.66)

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Supplementary Table 4. Age-specific references limits (5th and 95th percentiles) in UPi:UCreatinine ratio and UCalcium:UCreatinine ratio

	<u> </u>	<u> </u>		
Age groups	U _{Pi} :U _{Creatinine} ratio (mol/mol)	U _{Pi} :U _{Creatinine} ratio (mg/mg)	U _{Calcium} :U _{Creatinine} (mol/mol)	$U_{Calcium}:U_{Creatinine}$ (mg/mg)
1 month–1 year	1.2-19.0	0.34-5.24	0.09-2.2	0.03-0.81
1–2 years	1.2-14.0	0.34-3.95	0.07-1.5	0.03-0.56
2–3 years	1.2-12.0	0.34-3.13	0.06-1.4	0.02-0.50
3–5 years	1.2-8.0	0.33-2.17	0.05-1.1	0.02-0.41
5–7 years	1.2-5.0	0.33-1.49	0.04-0.8	0.01-0.30
7–10 years	1.2-3.6	0.32-0.97	0.04-0.7	0.01-0.25
10–14 years	0.8-3.2	0.22-0.86	0.04-0.7	0.01-0.24
14–17 years	0.8-2.7	0.21-0.75	0.04-0.7	0.01-0.24

UPi, urinary inorganic phosphorus; UCreatinine, urinary creatinine. Adapted from Matos et al. J Pediatr 1997;131:252-7.

Supplementary Table 5. Age-specific reference ranges of 1,25(OH)2D (pmol/L)

Age group	DiaSorin LIAISON XL
0–1 Year	77–471
1–3 Years	113–363
3–19 Years	108–246

1,25(OH)2D,1,25-dihydroxyvitamin D.

Adapted from Higgins et al. Clin Chem Lab Med 2018;56:964-72.83)