

# Estimation of Body-Surface Area in Infants and Children\*

Body Weight (kg)	Surface Area (m <sup>2</sup> )
2	0.16
2.5	0.19
3	0.21
3.5	0.24
4	0.26
4.5	0.28
5	0.3
5.5	0.32
6	0.34
6.5	0.36
7	0.38
7.5	0.4
8	0.42
8.5	0.44
9	0.46
9.5	0.47
10	0.49

Body Weight (kg)	Surface Area (m <sup>2</sup> )
11	0.53
12	0.56
13	0.59
14	0.62
15	0.65
16	0.68
17	0.71
18	0.74
19	0.77
20	0.79
21	0.82
22	0.85
23	0.87
24	0.9
25	0.92
26	0.95
27	0.97
28	1.0
29	1.0
30	1.1
31	1.1
32	1.1
33	1.1
34	1.1
35	1.2
36	1.2
37	1.2
38	1.2
39	1.3
40	1.3

Body Weight (kg)	Surface Area (m <sup>2</sup> )
41	1.3
42	1.3
43	1.3
44	1.4
45	1.4
46	1.4
47	1.4
48	1.4
49	1.5
50	1.5
51	1.5
52	1.5
53	1.5
54	1.6
55	1.6
56	1.6
57	1.6
58	1.6
59	1.7
60	1.7
61	1.7
62	1.7
63	1.7
64	1.7
65	1.8
66	1.8
67	1.8
68	1.8
69	1.8
70	1.9

Body Weight (kg)	Surface Area (m <sup>2</sup> )
71	1.9
72	1.9
73	1.9
74	1.9
75	1.9
76	2.0
77	2.0
78	2.0
79	2.0
80	2.0
81	2.0
82	2.1
83	2.1
84	2.1
85	2.1
86	2.1
87	2.1
88	2.2
89	2.2
90	2.2

**Caution (for children less than 10kg body-weight):**

- For children less than 10kg body-weight, dosing by body surface area represents a change in usual clinical practice: This will result in an **increase** in calculated dose.
- The implications of this change, in clinical practice, are not known in terms of drug toxicity.
- Recommendations:
  - Starting doses:**
    - For infants **less than 6 months** of age: **50%** of calculated dose by body surface area.
    - For infants **6 months to 1 year** of age: **75%** of calculated dose by body surface area.
    - For infants **over 1 year** of age: **100%** of calculated dose by body surface area.
- These doses may be adjusted according to clinical circumstances.
- Individual investigators (protocols) should have **clear** recommendations for dosing in infants.

\*Acknowledgement: Surface Area of the Human Body. Boyd E. The University of Minnesota Press 1935