

Values above the 95<sup>th</sup> centile are abnormal and are likely to need treating. Values above the adult normal ranges (24-h 130/80mmHg; daytime 135/85mmHg, night-time 125/75mmHg) also need treating.

### Systolic and diastolic ambulatory blood pressure (SBP/DBP) values for height (boys)

Height (cm)	Boys											
	24-h				Day				Night			
	50th	75th	90th	95th	50th	75th	90th	95th	50th	75th	90th	95th
120	105/66	109/70	114/74	117/77	111/72	116/77	122/80	125/82	94/54	99/58	103/61	106/63
125	105/66	110/70	115/74	118/77	111/72	117/76	122/80	125/82	95/55	100/58	105/61	108/63
130	106/66	111/70	116/74	119/77	112/72	117/76	122/80	126/82	96/55	101/59	106/62	110/64
135	107/66	112/70	117/74	120/77	112/72	117/76	123/80	126/82	97/56	102/59	108/63	111/65
140	108/67	113/71	118/75	121/77	113/72	118/76	123/80	126/82	98/56	104/60	109/63	113/65
145	110/67	115/71	120/75	123/77	114/72	119/76	124/79	127/81	99/56	105/60	111/64	114/66
150	111/67	116/71	121/75	124/77	115/72	120/76	125/79	128/81	100/56	106/60	112/64	116/66
155	113/67	118/71	123/75	126/77	117/72	122/76	127/79	130/81	101/56	107/60	113/64	117/66
160	114/67	120/71	124/75	127/77	119/72	124/76	129/79	133/81	103/56	108/60	114/64	118/66
165	116/68	121/71	126/75	129/78	121/72	126/76	132/80	135/82	104/57	110/60	116/64	119/66
170	118/68	123/72	128/75	131/78	123/73	128/77	134/80	138/82	106/57	112/61	117/64	121/66
175	120/68	125/72	130/75	133/78	124/73	130/77	136/81	140/83	107/57	113/61	119/64	122/66
180	122/68	127/72	131/76	134/78	126/73	132/77	138/81	142/83	109/57	115/61	120/64	124/66
185	123/68	128/72	133/76	136/78	128/73	134/78	140/81	144/84	110/57	116/61	122/64	125/66

The values are in mmHg. Data from | Wuhl E, Witte K, Soergel M, Mehls O, Schaefer F, German Working Group on Pediatric Hypertension. Distribution of 24-h ambulatory blood pressure in children: normalized reference values and role of body dimensions. J Hypertens 2002; 20:1995–2007.

### Systolic and diastolic ambulatory blood pressure (SBP/DBP) values for height (girls)

Height (cm)	Girls											
	24-h				Day				Night			
	50th	75th	90th	95th	50th	75th	90th	95th	50th	75th	90th	95th
120	104/66	108/69	112/71	114/72	110/73	114/77	118/80	120/82	95/55	99/60	103/63	106/65
125	105/66	109/69	113/71	116/73	111/73	115/77	119/80	121/82	96/55	100/60	104/63	107/66
130	106/66	110/69	114/72	117/73	111/72	116/76	120/80	122/82	96/55	101/59	106/63	108/66
135	107/66	111/70	115/72	118/74	112/72	116/76	120/80	123/82	97/55	102/59	107/63	109/66
140	108/66	112/70	116/73	119/75	112/72	117/76	121/80	124/82	98/55	103/59	108/63	110/66
145	109/66	113/70	117/73	120/75	113/72	118/76	123/80	125/82	98/54	103/59	109/63	112/66
150	110/67	115/70	119/74	121/76	114/72	119/76	124/80	127/82	99/54	104/59	110/63	113/66
155	111/67	116/71	120/74	123/76	116/72	121/76	125/80	128/82	100/54	106/59	111/63	114/66
160	112/67	117/71	121/74	123/76	117/72	122/76	126/80	129/82	101/55	106/59	111/63	114/66
165	114/67	118/71	122/74	124/76	118/73	123/77	127/80	130/82	102/55	107/59	112/63	114/66
170	115/68	119/71	123/74	125/76	120/74	124/77	128/80	131/82	103/55	108/61	112/67	115/71
175	116/69	120/72	124/75	126/76	121/75	125/78	129/81	131/82	105/55	109/59	113/63	115/66

The values are in mmHg. Data from | Wuhl E, Witte K, Soergel M, Mehls O, Schaefer F, German Working Group on Pediatric Hypertension. Distribution of 24-h ambulatory blood pressure in children: normalized reference values and role of body dimensions. J Hypertens 2002; 20:1995–2007.

AMBULATORY BLOOD PRESSURE RANGES (gender and height)

Values above the 95<sup>th</sup> centile are abnormal and are likely to need treating. Values above the adult normal ranges (24-h 130/80mmHg; daytime 135/85mmHg, night-time 125/75mmHg) also need treating.

### Systolic and diastolic ambulatory blood pressure (SBP/DBP) values for age (boys)

Age (years)	Boys											
	24-h				Day				Night			
	50th	75th	90th	95th	50th	75th	90th	95th	50th	75th	90th	95th
5	105/65	109/69	113/72	116/74	111/72	116/76	120/79	123/81	95/55	99/59	103/62	106/65
6	106/66	110/69	115/73	118/75	112/72	116/76	121/79	124/81	96/55	100/59	105/63	108/66
7	106/66	111/70	116/73	119/75	112/73	117/76	122/80	125/82	96/56	101/60	106/64	110/67
8	107/66	112/70	117/73	120/75	112/73	117/76	122/80	125/82	97/56	102/60	108/64	111/67
9	108/67	113/70	118/73	121/75	113/72	118/76	123/80	126/82	97/56	103/60	109/64	112/67
10	109/67	114/70	119/73	123/75	113/72	119/76	124/80	127/82	98/56	104/60	110/64	113/67
11	110/67	116/71	121/74	125/76	115/72	121/76	126/80	129/82	99/56	105/60	111/64	115/67
12	113/67	118/71	124/74	127/76	117/72	123/76	128/80	132/82	101/56	107/60	113/64	116/67
13	115/67	121/71	126/74	130/76	120/72	126/76	131/80	135/82	103/56	109/60	115/64	119/67
14	118/68	124/71	129/75	133/77	122/73	129/77	134/80	138/82	106/57	112/61	118/64	121/67
15	121/68	127/72	132/75	136/77	125/73	132/77	137/81	141/83	108/57	114/61	120/64	123/66
16	123/69	129/72	135/76	138/78	128/74	135/78	140/81	144/84	111/57	117/61	123/64	126/66

The values are in mmHg. Data from Wuhl E, Witte K, Soergel M, Mehls O, Schaefer F, German Working Group on Pediatric Hypertension. Distribution of 24-h ambulatory blood pressure in children: normalized reference values and role of body dimensions. J Hypertens 2002; 20:1995–2007.

### Systolic and diastolic ambulatory blood pressure (SBP/DBP) values for age (girls)

Age (years)	Girls											
	24-h				Day				Night			
	50th	75th	90th	95th	50th	75th	90th	95th	50th	75th	90th	95th
5	103/66	108/69	112/72	115/74	108/73	114/77	118/80	121/82	95/56	100/61	105/66	108/69
6	104/66	109/69	114/72	116/74	110/73	115/77	120/80	122/82	96/56	101/61	106/65	110/68
7	105/66	110/69	115/72	118/74	111/72	116/77	121/80	123/82	96/56	102/60	107/65	111/67
8	107/66	112/69	116/72	119/74	112/72	117/76	122/80	124/82	97/55	103/60	108/64	112/67
9	108/66	113/70	117/73	120/74	112/72	118/76	122/80	125/82	98/55	103/59	109/64	112/67
10	109/66	114/70	118/73	121/75	113/72	119/76	123/79	126/81	98/55	104/59	110/64	113/67
11	110/66	115/70	119/73	122/75	114/72	120/76	124/79	127/81	99/54	105/59	110/63	114/66
12	111/67	116/70	120/74	123/76	115/72	121/76	125/80	128/82	100/54	105/59	110/63	114/66
13	112/67	117/71	121/74	124/76	116/72	122/77	126/80	129/82	101/54	106/59	111/63	114/66
14	113/67	118/71	122/74	125/76	118/73	123/77	127/80	130/82	101/55	106/59	111/63	114/65
15	114/68	118/71	123/75	125/77	119/73	124/77	128/80	130/82	102/55	107/59	111/63	114/65
16	115/68	119/71	123/75	126/77	120/74	124/77	129/80	131/82	103/55	107/59	111/63	114/65

The values are in mmHg. Data from Wuhl E, Witte K, Soergel M, Mehls O, Schaefer F, German Working Group on Pediatric Hypertension. Distribution of 24-h ambulatory blood pressure in children: normalized reference values and role of body dimensions. J Hypertens 2002; 20:1995–2007.

AMBULATORY BLOOD PRESSURE RANGES (gender and age)