Blood Pressure Levels for Boys by Age and Height Percentile

	ВР			Systo	lic BP (mmHg)		Diastolic BP (mmHg)								
Age (Year)	Percentile		+	Perce	ntile of	Height	→		← Percentile of Height →							
		5th	10th	25th	50th	75th	90th	95th	5th	10th	25th	50th	75th	90th	95th	
1	50th	80	81	83	85	87	88	89	34	35	36	37	38	39	39	
	90th	94	95	97	99	100	102	103	49	50	51	52	53	53	54	
	95th	98	99	101	103	104	106	106	54	54	55	56	57	58	58	
	99th	105	106	108	110	112	113	114	61	62	63	64	65	66	66	
2	50th	84	85	87	88	90	92	92	39	40	41	42	43	44	44	
	90th	97	99	100	102	104	105	106	54	55	56	57	58	58	59	
	95th	101	102	104	106	108	109	110	59	59	60	61	62	63	63	
	99th	109	110	111	113	115	117	117	66	67	68	69	70	71	71	
3	50th	86	87	89	91	93	94	95	44	44	45	46	47	48	48	
	90th	100	101	103	105	107	108	109	59	59	60	61	62	63	63	
	95th	104	105	107	109	110	112	113	63	63	64	65	66	67	67	
	99th	111	112	114	116	118	119	120	71	71	72	73	74	75	75	
4	50th	88	89	91	93	95	96	97	47	48	49	50	51	51	52	
	90th	102	103	105	107	109	110	111	62	63	64	65	66	66	67	
	95th	106	107	109	111	112	114	115	66	67	68	69	70	71	71	
	99th	113	114	116	118	120	121	122	74	75	76	77	78	78	79	
5	50th	90	91	93	95	96	98	98	50	51	52	53	54	55	55	
	90th	104	105	106	108	110	111	112	65	66	67	68	69	69	70	
	95th	108	109	110	112	114	115	116	69	70	71	72	73	74	74	
	99th	115	116	118	120	121	123	123	77	78	79	80	81	81	82	
6	50th	91	92	94	96	98	99	100	53	53	54	55	56	57	57	
	90th	105	106	108	110	111	113	113	68	68	69	70	71	72	72	
	95th	109	110	112	114	115	117	117	72	72	73	74	75	76	76	
	99th	116	117	119	121	123	124	125	80	80	81	82	83	84	84	
7	50th	92	94	95	97	99	100	101	55	55	56	57	58	59	59	
	90th	106	107	109	111	113	114	115	70	70	71	72	73	74	74	
	95th	110	111	113	115	117	118	119	74	74	75	76	77	78	78	
	99th	117	118	120	122	124	125	126	82	82	83	84	85	86	86	
8	50th	94	95	97	99	100	102	102	56	57	58	59	60	60	61	
	90th	107	109	110	112	114	115	116	71	72	72	73	74	75	76	
	95th	111	112	114	116	118	119	120	75	76	77	78	79	79	80	
	99th	119	120	122	123	125	127	127	83	84	85	86	87	87	88	
9	50th	95	96	98	100	102	103	104	57	58	59	60	61	61	62	
	90th	109	110	112	114	115	117	118	72	73	74	75	76	76	77	
	95th	113	114	116	118	119	121	121	76	77	78	79	80	81	81	
	99th	120	121	123	125	127	128	129	84	85	86	87	88	88	89	
10	50th	97	98	100	102	103	105	106	58	59	60	61	61	62	63	
	90th	111	112	114	115	117	119	119	73	73	74	75	76	77	78	
	95th	115	116	117	119	121	122	123	77	78	79	80	81	81	82	
	99th	122	123	125	127	128	130	130	85	86	86	88	88	89	90	

Blood Pressure Levels for Boys by Age and Height Percentile (Continued)

Age (Year)	ВР	Systolic BP (mmHg)								Diastolic BP (mmHg)							
	Percentile		•	- Perce	ntile of	Height	→			•	- Perce	ercentile of Height →	→				
	$lack \Psi$	5th	10th	25th	50th	75th	90th	95th	5th	10th	25th	50th	75th	90th	95th		
11	50th	99	100	102	104	105	107	107	59	59	60	61	62	63	63		
	90th	113	114	115	117	119	120	121	74	74	75	76	77	78	78		
	95th	117	118	119	121	123	124	125	78	78	79	80	81	82	82		
	99th	124	125	127	129	130	132	132	86	86	87	88	89	90	90		
12	50th	101	102	104	106	108	109	110	59	60	61	62	63	63	64		
	90th	115	116	118	120	121	123	123	74	75	75	76	77	78	79		
	95th	119	120	122	123	125	127	127	78	79	80	81	82	82	83		
	99th	126	127	129	131	133	134	135	86	87	88	89	90	90	91		
13	50th	104	105	106	108	110	111	112	60	60	61	62	63	64	64		
	90th	117	118	120	122	124	125	126	75	75	76	77	78	79	79		
	95th	121	122	124	126	128	129	130	79	79	80	81	82	83	83		
	99th	128	130	131	133	135	136	137	87	87	88	89	90	91	91		
14	50th	106	107	109	111	113	114	115	60	61	62	63	64	65	65		
	90th	120	121	123	125	126	128	128	75	76	77	78	79	79	80		
	95th	124	125	127	128	130	132	132	80	80	81	82	83	84	84		
	99th	131	132	134	136	138	139	140	87	88	89	90	91	92	92		
15	50th	109	110	112	113	115	117	117	61	62	63	64	65	66	66		
	90th	122	124	125	127	129	130	131	76	77	78	79	80	80	81		
	95th	126	127	129	131	133	134	135	81	81	82	83	84	85	85		
	99th	134	135	136	138	140	142	142	88	89	90	91	92	93	93		
16	50th	111	112	114	116	118	119	120	63	63	64	65	66	67	67		
	90th	125	126	128	130	131	133	134	78	78	79	80	81	82	82		
	95th	129	130	132	134	135	137	137	82	83	83	84	85	86	87		
	99th	136	137	139	141	143	144	145	90	90	91	92	93	94	94		
17	50th	114	115	116	118	120	121	122	65	66	66	67	68	69	70		
	90th	127	128	130	132	134	135	136	80	80	81	82	83	84	84		
	95th	131	132	134	136	138	139	140	84	85	86	87	87	88	89		
	99th	139	140	141	143	145	146	147	92	93	93	94	95	96	97		

BP, blood pressure

For research purposes, the standard deviations in Appendix Table B–1 allow one to compute BP Z-scores and percentiles for boys with height percentiles given in Table 3 (i.e., the 5th,10th, 25th, 50th, 75th, 90th, and 95th percentiles). These height percentiles must be converted to height Z-scores given by (5% = -1.645; 10% = -1.28; 25% = -0.68; 50% = 0; 75% = 0.68; 90% = 1.28%; 95% = 1.645) and then computed according to the methodology in steps 2–4 described in Appendix B. For children with height percentiles other than these, follow steps 1–4 as described in Appendix B.

^{*} The 90th percentile is 1.28 SD, 95th percentile is 1.645 SD, and the 99th percentile is 2.326 SD over the mean.

Blood Pressure Levels for Girls by Age and Height Percentile

	ВР			Systo	lic BP (mmHg)		Diastolic BP (mmHg)								
Age (Year)	Percentile		+	- Perce	ntile of	Height	→		← Percentile of Height →							
		5th	10th	25th	50th	75th	90th	95th	5th	10th	25th	50th	75th	90th	95th	
1	50th	83	84	85	86	88	89	90	38	39	39	40	41	41	42	
	90th	97	97	98	100	101	102	103	52	53	53	54	55	55	56	
	95th	100	101	102	104	105	106	107	56	57	57	58	59	59	60	
	99th	108	108	109	111	112	113	114	64	64	65	65	66	67	67	
2	50th	85	85	87	88	89	91	91	43	44	44	45	46	46	47	
	90th	98	99	100	101	103	104	105	57	58	58	59	60	61	61	
	95th	102	103	104	105	107	108	109	61	62	62	63	64	65	65	
	99th	109	110	111	112	114	115	116	69	69	70	70	71	72	72	
3	50th	86	87	88	89	91	92	93	47	48	48	49	50	50	51	
	90th	100	100	102	103	104	106	106	61	62	62	63	64	64	65	
	95th	104	104	105	107	108	109	110	65	66	66	67	68	68	69	
	99th	111	111	113	114	115	116	117	73	73	74	74	75	76	76	
4	50th	88	88	90	91	92	94	94	50	50	51	52	52	53	54	
	90th	101	102	103	104	106	107	108	64	64	65	66	67	67	68	
	95th	105	106	107	108	110	111	112	68	68	69	70	71	71	72	
	99th	112	113	114	115	117	118	119	76	76	76	77	78	79	79	
5	50th	89	90	91	93	94	95	96	52	53	53	54	55	55	56	
	90th	103	103	105	106	107	109	109	66	67	67	68	69	69	70	
	95th	107	107	108	110	111	112	113	70	71	71	72	73	73	74	
	99th	114	114	116	117	118	120	120	78	78	79	79	80	81	81	
6	50th	91	92	93	94	96	97	98	54	54	55	56	56	57	58	
	90th	104	105	106	108	109	110	111	68	68	69	70	70	71	72	
	95th	108	109	110	111	113	114	115	72	72	73	74	74	75	76	
	99th	115	116	117	119	120	121	122	80	80	80	81	82	83	83	
7	50th	93	93	95	96	97	99	99	55	56	56	57	58	58	59	
	90th	106	107	108	109	111	112	113	69	70	70	71	72	72	73	
	95th	110	111	112	113	115	116	116	73	74	74	75	76	76	77	
	99th	117	118	119	120	122	123	124	81	81	82	82	83	84	84	
8	50th	95	95	96	98	99	100	101	57	57	57	58	59	60	60	
	90th	108	109	110	111	113	114	114	71	71	71	72	73	74	74	
	95th	112	112	114	115	116	118	118	75	75	75	76	77	78	78	
	99th	119	120	121	122	123	125	125	82	82	83	83	84	85	86	
9	50th	96	97	98	100	101	102	103	58	58	58	59	60	61	61	
	90th	110	110	112	113	114	116	116	72	72	72	73	74	75	75	
	95th	114	114	115	117	118	119	120	76	76	76	77	78	79	79	
	99th	121	121	123	124	125	127	127	83	83	84	84	85	86	87	
10	50th	98	99	100	102	103	104	105	59	59	59	60	61	62	62	
	90th	112	112	114	115	116	118	118	73	73	73	74	75	76	76	
	95th	116	116	117	119	120	121	122	77	77	77	78	79	80	80	
	99th	123	123	125	126	127	129	129	84	84	85	86	86	87	88	

Blood Pressure Levels for Girls by Age and Height Percentile (Continued)

Age (Year)	ВР			Systo	lic BP (mmHg)		Diastolic BP (mmHg)										
	Percentile		← Percentile of Height →								← Percentile of Height →							
	$lack \Psi$	5th	10th	25th	50 th	75th	90th	95th	5th	10th	25th	50th	75th	90th	95th			
11	50th	100	101	102	103	105	106	107	60	60	60	61	62	63	63			
	90th	114	114	116	117	118	119	120	74	74	74	75	76	77	77			
	95th	118	118	119	121	122	123	124	78	78	78	79	80	81	81			
	99th	125	125	126	128	129	130	131	85	85	86	87	87	88	89			
12	50th	102	103	104	105	107	108	109	61	61	61	62	63	64	64			
	90th	116	116	117	119	120	121	122	75	75	75	76	77	78	78			
	95th	119	120	121	123	124	125	126	79	79	79	80	81	82	82			
	99th	127	127	128	130	131	132	133	86	86	87	88	88	89	90			
13	50th	104	105	106	107	109	110	110	62	62	62	63	64	65	65			
	90th	117	118	119	121	122	123	124	76	76	76	77	78	79	79			
	95th	121	122	123	124	126	127	128	80	80	80	81	82	83	83			
	99th	128	129	130	132	133	134	135	87	87	88	89	89	90	91			
14	50th	106	106	107	109	110	111	112	63	63	63	64	65	66	66			
	90th	119	120	121	122	124	125	125	77	77	77	78	79	80	80			
	95th	123	123	125	126	127	129	129	81	81	81	82	83	84	84			
	99th	130	131	132	133	135	136	136	88	88	89	90	90	91	92			
15	50th	107	108	109	110	111	113	113	64	64	64	65	66	67	67			
	90th	120	121	122	123	125	126	127	78	78	78	79	80	81	81			
	95th	124	125	126	127	129	130	131	82	82	82	83	84	85	85			
	99th	131	132	133	134	136	137	138	89	89	90	91	91	92	93			
16	50th	108	108	110	111	112	114	114	64	64	65	66	66	67	68			
	90th	121	122	123	124	126	127	128	78	78	79	80	81	81	82			
	95th	125	126	127	128	130	131	132	82	82	83	84	85	85	86			
	99th	132	133	134	135	137	138	139	90	90	90	91	92	93	93			
17	50th	108	109	110	111	113	114	115	64	65	65	66	67	67	68			
	90th	122	122	123	125	126	127	128	78	79	79	80	81	81	82			
	95th	125	126	127	129	130	131	132	82	83	83	84	85	85	86			
	99th	133	133	134	136	137	138	139	90	90	91	91	92	93	93			

BP, blood pressure

For research purposes, the standard deviations in Appendix Table B-1 allow one to compute BP Z-scores and percentiles for girls with height percentiles given in Table 4 (i.e., the 5th,10th, 25th, 50th, 75th, 90th, and 95th percentiles). These height percentiles must be converted to height Z-scores given by (5% = -1.645; 10% = -1.28; 25% = -0.68; 50% = 0; 75% = 0.68; 90% = 1.28%; 95% = 1.645) and then computed according to the methodology in steps 2-4 described in Appendix B. For children with height percentiles other than these, follow steps 1-4 as described in Appendix B.

^{*} The 90th percentile is 1.28 SD, 95th percentile is 1.645 SD, and the 99th percentile is 2.326 SD over the mean.