

**38° CONGRESO ARGENTINO DE PEDIATRIA
26,27,28,29 DE SEPTIEMBRE 2017
CENTRO DE CONVENCIONES DINOSAURIO
ORFEO SUPERDOMO
CIUDAD DE CORDOBA-ARGENTINA**

HIPERTENSIÓN ARTERIAL: DETECCIÓN Y MANEJO INICIAL

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INTRODUCCIÓN

- ▶ **SABEMOS QUE LA ENF. C.V. DEL ADULTO SIGUE SIENDO UNA DE LAS CAUSAS MÁS FRECUENTES DE MORBIMORTALIDAD EN EL MUNDO.**
- ▶ **LOS NIVELES DE PRESIÓN ARTERIAL EN ETAPAS TEMPRANAS DE LA VIDA Y LA HISTORIA FAMILIAR DE HIPERTENSIÓN SON LOS PREDICTORES MÁS IMPORTANTES DE HIPERTENSIÓN EN LA EDAD ADULTA.**

PREVALENCIA

▶ LA PREVALENCIA DE HIPERTENSION ARTERIAL EN PEDIATRIA ES DEL 3,6%

2016 European Society of Hypertension guidelines for the management of high blood pressure in children and adolescents . Lurbe et al.

Clinical Practice Guideline for Screening and Management of High Blood Pressure in Children and Adolescents. J Flynn et al. American Academy of Pediatrics. Pediatrics online August 22, 2017

▶ EN ARGENTINA HTA EN LA INFANCIA ES DEL 1 AL 3% Y ESTA INCREMENTA EN LA ADOLESCENCIA AL DOBLE AGRAVADO POR EL SOBREPESO Y OBESIDAD.

2005-Consenso de FR de la Sociedad Argentina de Pediatría.

▶ NHANNES ENTRE 1988 AL 2014 ENCONTRO SOBRE 400000 NIÑOS SANOS UNA PREVALENCIA DE 3.3% . (SIENDO >EN VARONES RANGO DE 15 A 19 AÑOS Y EN MUJERES ENTRE 7 Y 12 AÑOS).

▶ EN ADOLESCENTES SOLAMENTE LLEGA A UN 9,5% Y SI TOMAMOS NIÑOS CON SOBREPESO/OBESIDAD VA DESDE EL 3,8 AL 24,8%.

Clinical Practice Guideline for Screening and Management of High Blood Pressure in Children and Adolescents. J Flynn et al. American Academy of Pediatrics. Pediatrics online August 22, 2017

RENATA-1 vs. RENATA-2

Conocimiento, Tratamiento y Control de la Hipertensión

RENATA-1

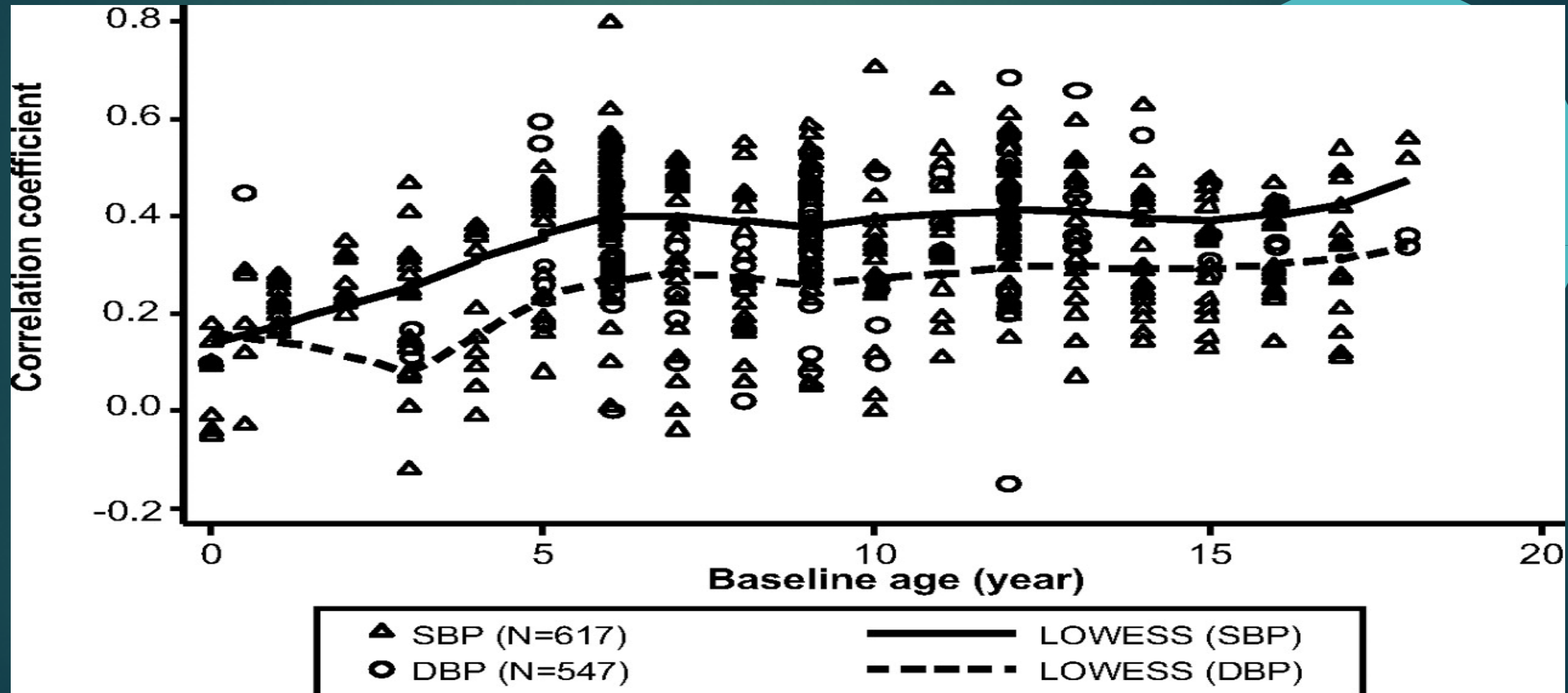


HTA: 1341
(33.5%)
n4006

HTA: 2154
(36.32%)
n5931

■ No conocidos ■ Conocidos - No tratados ■ Tratados - No controlados ■ Tratados - Controlados

CURVAS DE TRACKING DE LA P. A. SISTOLICA Y DIASTOLICA DE ACUERDO A LA EDAD BASAL



HTA: Clasificación/Definición

PRESIÓN ARTERIAL NORMAL

Presión arterial sistólica y/o diastólica < Plo 90 para edad, sexo y talla.

PREHIPERTENSIÓN o PRESIÓN NORMAL ALTA

Presión arterial sistólica y/o diastólica \geq Plo 90 y < Plo 95 para edad, sexo y talla en tres o más ocasiones separadas

Adolescentes \geq 16 a : presión arterial \geq 130-139/85 -89mm Hg

HIPERTENSION ARTERIAL

Presión arterial sistólica y/o diastólica \geq PC 95 para edad, sexo y talla en tres o más ocasiones separadas

Estadio 1: PA \geq Plo 95 y < Plo 99 + 5 mm Hg

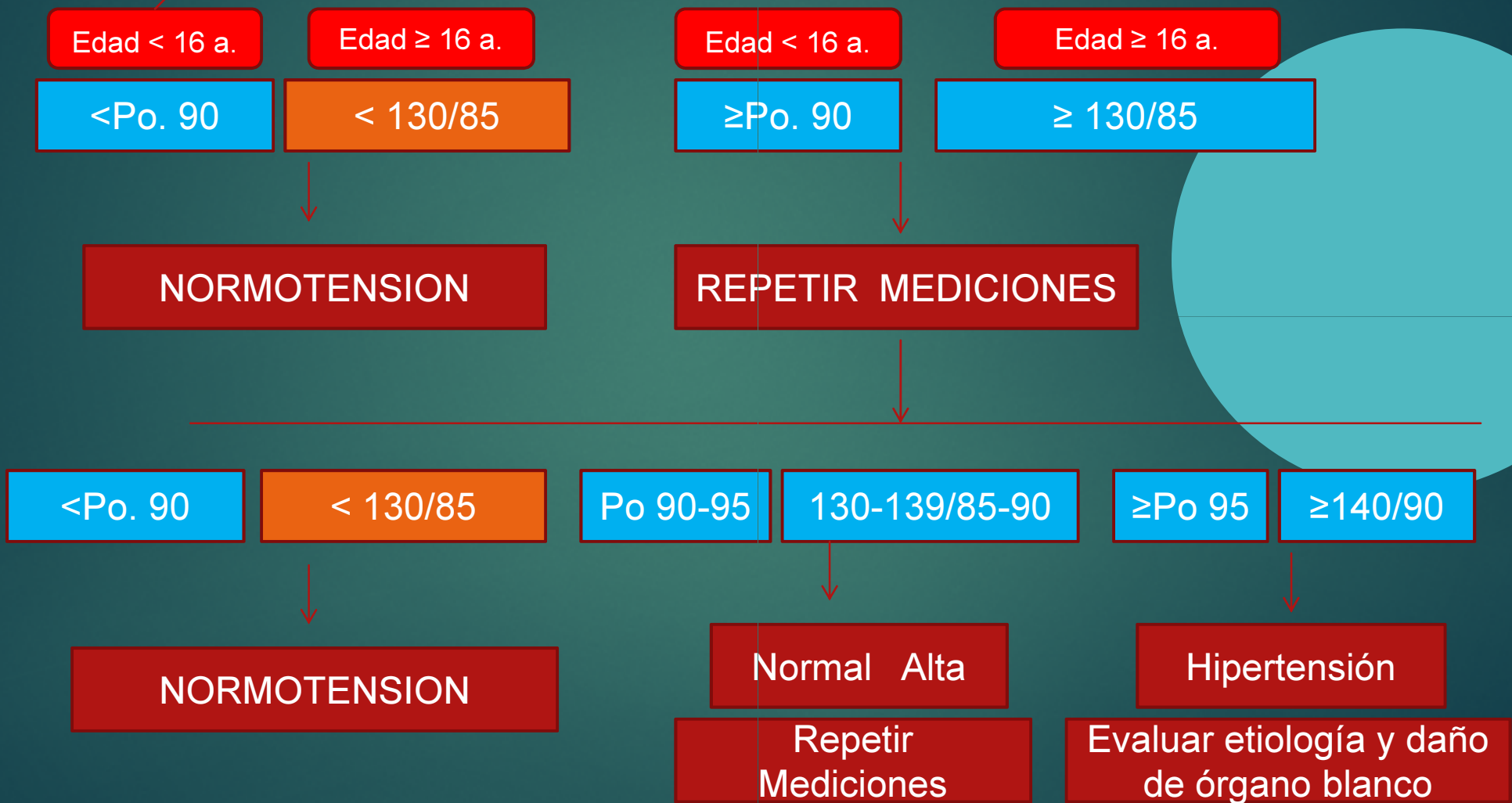
Estadio 2: PA \geq Plo 99 + 5 mm Hg

Adolescentes \geq 16 a : presión arterial \geq 140/90 mm Hg

Estadio 1: PA 140-159 / 90-99 mm Hg

Estadio 2: PA \geq 160/100

SBP y/o DBP



SBP y/o DBP

Edad < 16 a.

Edad ≥ 16 a.

Edad < 16 a.

Edad ≥ 16 a.

<Po. 90

< 130/85

≥Po. 90

≥ 130/85

NORMOTENSION

REPETIR MEDICIONES

<Po. 90

< 130/85

Po 90-95

130-139/85-90

≥Po 95

≥140/90

NORMOTENSION

Normal Alta

Repetir Mediciones

MAPA

Hipertensión

Evaluar etiología y daño de órgano blanco

Clasificación de la HTA en niños y adolescentes

| Category | 0-15 years | 16 years and older |
|----------------------|---------------------------------------------------|------------------------------|
| | SBP and/or DBP percentile | SBP and/or DBP values (mmHg) |
| Normal | <90th | <130/85 |
| High-normal | ≥90th to <95th percentile | 130-139/85-89 |
| Hypertension | ≥95th percentile | ≥140/90 |
| Stage 1 hypertension | 95th percentile to the 99th percentile and 5 mmHg | 140-159/90-99 |
| Stage 2 hypertension | >99th percentile plus 5 mmHg | 160-179/100-109 |
| ISH | SBP ≥95th percentile and DBP <90th percentile | ≥140/<90 |

2016 European Society of Hypertension guidelines for the management of high blood pressure in children and adolescents. Lurbe et al.

**Presión Arterial SISTOLICA y DIASTOLICA en VARONES de 1 a 17 años Niveles para percentiles 50, 90, 95 y 99 por percentiles de Talla (en mm.Hg.)
Hoja 1 (1año a 9 años)**

| Edad (años) | Percentil PA | P A SISTOLICA | | | | | | | P A DIASTOLICA | | | | | | |
|----------------|-----------------|--------------------|-----|-----|-----|-----|-----|-----|--------------------|----|----|----|----|----|----|
| | | Percentil de Talla | | | | | | | Percentil de Talla | | | | | | |
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | 5 | 10 | 25 | 50 | 75 | 90 | 95 |
| 1 | 50 | 80 | 81 | 83 | 85 | 87 | 88 | 89 | 34 | 35 | 36 | 37 | 38 | 39 | 39 |
| | 90 | 94 | 95 | 97 | 99 | 100 | 102 | 103 | 49 | 50 | 51 | 52 | 53 | 53 | 54 |
| | 95 | 98 | 99 | 101 | 103 | 104 | 106 | 106 | 54 | 54 | 55 | 56 | 57 | 58 | 58 |
| | 99 | 105 | 106 | 108 | 110 | 112 | 113 | 114 | 61 | 62 | 63 | 64 | 65 | 66 | 66 |
| 2 | 50 | 84 | 85 | 87 | 88 | 90 | 92 | 92 | 39 | 40 | 41 | 42 | 43 | 44 | 44 |
| | 90 | 97 | 99 | 100 | 102 | 104 | 105 | 106 | 54 | 55 | 56 | 57 | 58 | 58 | 59 |
| | 95 | 101 | 102 | 104 | 106 | 108 | 109 | 110 | 59 | 59 | 60 | 61 | 62 | 63 | 63 |
| | 99 | 109 | 110 | 111 | 113 | 115 | 117 | 117 | 66 | 67 | 68 | 69 | 70 | 71 | 71 |
| 3 | 50 | 86 | 87 | 89 | 91 | 93 | 94 | 95 | 44 | 44 | 45 | 46 | 47 | 48 | 48 |
| | 90 | 100 | 101 | 103 | 105 | 107 | 108 | 109 | 59 | 59 | 60 | 61 | 62 | 63 | 63 |
| | 95 | 104 | 105 | 107 | 109 | 110 | 112 | 113 | 63 | 63 | 64 | 65 | 66 | 67 | 67 |
| | 99 | 111 | 112 | 114 | 116 | 118 | 119 | 120 | 71 | 71 | 72 | 73 | 74 | 75 | 75 |
| 4 | 50 | 88 | 89 | 91 | 93 | 95 | 96 | 97 | 47 | 48 | 49 | 50 | 51 | 51 | 52 |
| | 90 | 102 | 103 | 105 | 107 | 109 | 110 | 111 | 62 | 63 | 64 | 65 | 66 | 66 | 67 |
| | 95 | 106 | 107 | 109 | 111 | 112 | 114 | 115 | 66 | 67 | 68 | 69 | 70 | 71 | 71 |
| | 99 | 113 | 114 | 116 | 118 | 120 | 121 | 122 | 74 | 75 | 76 | 77 | 78 | 78 | 79 |
| 5 | 50 | 90 | 91 | 93 | 95 | 96 | 98 | 98 | 50 | 51 | 52 | 53 | 54 | 55 | 55 |
| | 90 | 104 | 105 | 106 | 108 | 110 | 111 | 112 | 65 | 66 | 67 | 68 | 69 | 69 | 70 |
| | 95 | 108 | 109 | 110 | 112 | 114 | 115 | 116 | 69 | 70 | 71 | 72 | 73 | 74 | 74 |
| | 99 | 115 | 116 | 118 | 120 | 121 | 123 | 123 | 77 | 78 | 79 | 80 | 81 | 81 | 82 |
| 6 | 50 | 91 | 92 | 94 | 96 | 98 | 99 | 100 | 53 | 53 | 54 | 55 | 56 | 57 | 57 |
| | 90 | 105 | 106 | 108 | 110 | 111 | 113 | 113 | 68 | 68 | 69 | 70 | 71 | 72 | 72 |
| | 95 | 109 | 110 | 112 | 114 | 115 | 117 | 117 | 72 | 72 | 73 | 74 | 75 | 76 | 76 |
| | 99 | 116 | 117 | 119 | 121 | 123 | 124 | 125 | 80 | 80 | 81 | 82 | 83 | 84 | 84 |
| 7 | 50 | 92 | 94 | 95 | 97 | 99 | 100 | 101 | 55 | 55 | 56 | 57 | 58 | 59 | 59 |
| | 90 | 106 | 107 | 109 | 111 | 113 | 114 | 115 | 70 | 70 | 71 | 72 | 73 | 74 | 74 |
| | 95 | 110 | 111 | 113 | 115 | 117 | 118 | 119 | 74 | 74 | 75 | 76 | 77 | 78 | 78 |
| | 99 | 117 | 118 | 120 | 122 | 124 | 125 | 126 | 82 | 82 | 83 | 84 | 85 | 86 | 86 |
| 8 | 50 | 94 | 95 | 97 | 99 | 100 | 102 | 102 | 56 | 57 | 58 | 59 | 60 | 60 | 61 |
| | 90 | 107 | 109 | 110 | 112 | 114 | 115 | 116 | 71 | 72 | 72 | 73 | 74 | 75 | 76 |
| | 95 | 111 | 112 | 114 | 116 | 118 | 119 | 120 | 75 | 76 | 77 | 78 | 79 | 79 | 80 |
| | 99 | 119 | 120 | 122 | 123 | 125 | 127 | 127 | 83 | 84 | 85 | 86 | 87 | 87 | 88 |
| 9 | 50 | 95 | 96 | 98 | 100 | 102 | 103 | 104 | 57 | 58 | 59 | 60 | 61 | 61 | 62 |
| | 90 | 109 | 110 | 112 | 114 | 115 | 117 | 118 | 72 | 73 | 74 | 75 | 76 | 76 | 77 |
| | 95 | 113 | 114 | 116 | 118 | 119 | 121 | 121 | 76 | 77 | 78 | 79 | 80 | 81 | 81 |
| | 99 | 120 | 121 | 123 | 125 | 127 | 128 | 129 | 84 | 85 | 86 | 87 | 88 | 88 | 89 |

Presión Arterial SISTOLICA y DIASTOLICA en VARONES de 1 a 17 años Niveles para percentiles 50, 90, 95 y 99 por percentiles de Talla (en mm.Hg.) Hoja 2 (10 años a 17 años)

| Edad (años) | Percentil PA | P.A SISTOLICA | | | | | | | P.A DIASTOLICA | | | | | | |
|----------------|-----------------|--------------------|-----|-----|-----|-----|-----|-----|--------------------|----|----|----|----|----|----|
| | | Percentil de Talla | | | | | | | Percentil de Talla | | | | | | |
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | 5 | 10 | 25 | 50 | 75 | 90 | 95 |
| 10 | 50 | 97 | 98 | 100 | 102 | 103 | 105 | 106 | 58 | 59 | 60 | 61 | 61 | 62 | 63 |
| | 90 | 111 | 112 | 114 | 115 | 117 | 119 | 119 | 73 | 73 | 74 | 75 | 76 | 77 | 78 |
| | 95 | 115 | 116 | 117 | 119 | 121 | 122 | 123 | 77 | 78 | 79 | 80 | 81 | 81 | 82 |
| | 99 | 122 | 123 | 125 | 127 | 128 | 130 | 130 | 85 | 86 | 86 | 88 | 88 | 89 | 90 |
| 11 | 50 | 99 | 100 | 102 | 104 | 105 | 107 | 107 | 59 | 59 | 60 | 61 | 62 | 63 | 63 |
| | 90 | 113 | 114 | 115 | 117 | 119 | 120 | 121 | 74 | 74 | 75 | 76 | 77 | 78 | 78 |
| | 95 | 117 | 118 | 119 | 121 | 123 | 124 | 125 | 78 | 78 | 79 | 80 | 81 | 82 | 82 |
| | 99 | 124 | 125 | 127 | 129 | 130 | 132 | 132 | 86 | 86 | 87 | 88 | 89 | 90 | 90 |
| 12 | 50 | 101 | 102 | 104 | 106 | 108 | 109 | 110 | 59 | 60 | 61 | 62 | 63 | 63 | 64 |
| | 90 | 115 | 116 | 118 | 120 | 121 | 123 | 123 | 74 | 75 | 75 | 76 | 77 | 78 | 79 |
| | 95 | 119 | 120 | 122 | 123 | 125 | 127 | 127 | 78 | 79 | 80 | 81 | 82 | 82 | 83 |
| | 99 | 126 | 127 | 129 | 131 | 133 | 134 | 135 | 86 | 87 | 88 | 89 | 90 | 90 | 91 |
| 13 | 50 | 104 | 105 | 106 | 108 | 110 | 111 | 112 | 60 | 60 | 61 | 62 | 63 | 64 | 64 |
| | 90 | 117 | 118 | 120 | 122 | 124 | 125 | 126 | 75 | 75 | 76 | 77 | 78 | 79 | 79 |
| | 95 | 121 | 122 | 124 | 126 | 128 | 129 | 130 | 79 | 79 | 80 | 81 | 82 | 83 | 83 |
| | 99 | 128 | 130 | 131 | 133 | 135 | 136 | 137 | 87 | 87 | 88 | 89 | 90 | 91 | 91 |
| 14 | 50 | 106 | 107 | 109 | 111 | 113 | 114 | 115 | 60 | 61 | 62 | 63 | 64 | 65 | 65 |
| | 90 | 120 | 121 | 123 | 125 | 126 | 128 | 128 | 75 | 76 | 77 | 78 | 79 | 79 | 80 |
| | 95 | 124 | 125 | 127 | 128 | 130 | 132 | 132 | 80 | 80 | 81 | 82 | 83 | 84 | 84 |
| | 99 | 131 | 132 | 134 | 136 | 138 | 139 | 140 | 87 | 88 | 89 | 90 | 91 | 92 | 92 |
| 15 | 50 | 109 | 110 | 112 | 113 | 115 | 117 | 117 | 61 | 62 | 63 | 64 | 65 | 66 | 66 |
| | 90 | 122 | 124 | 125 | 127 | 129 | 130 | 131 | 76 | 77 | 78 | 79 | 80 | 80 | 81 |
| | 95 | 126 | 127 | 129 | 131 | 133 | 134 | 135 | 81 | 81 | 82 | 83 | 84 | 85 | 85 |
| | 99 | 134 | 135 | 136 | 138 | 140 | 142 | 142 | 88 | 89 | 90 | 91 | 92 | 93 | 93 |
| 16 | 50 | 111 | 112 | 114 | 116 | 118 | 119 | 120 | 63 | 63 | 64 | 65 | 66 | 67 | 67 |
| | 90 | 125 | 126 | 128 | 130 | 131 | 133 | 134 | 78 | 78 | 79 | 80 | 81 | 82 | 82 |
| | 95 | 129 | 130 | 132 | 134 | 135 | 137 | 137 | 82 | 83 | 83 | 84 | 85 | 86 | 87 |
| | 99 | 136 | 137 | 139 | 141 | 143 | 144 | 145 | 90 | 90 | 91 | 92 | 93 | 94 | 94 |
| 17 | 50 | 114 | 115 | 116 | 118 | 120 | 121 | 122 | 65 | 66 | 66 | 67 | 68 | 69 | 70 |
| | 90 | 127 | 128 | 130 | 132 | 134 | 135 | 136 | 80 | 80 | 81 | 82 | 83 | 84 | 84 |
| | 95 | 131 | 132 | 134 | 136 | 138 | 139 | 140 | 84 | 85 | 86 | 87 | 87 | 88 | 89 |
| | 99 | 139 | 140 | 141 | 143 | 145 | 146 | 147 | 92 | 93 | 93 | 94 | 95 | 96 | 97 |

Presión Arterial SISTOLICA y DIASTOLICA en VARONES de 1 a 17 años Niveles para percentiles 50, 90, 95 y 99 por percentiles de Talla (en mm.Hg.) Hoja 2 (10 años a 17 años)

| Edad (años) | Percentil PA | P A SISTOLICA | | | | | | | P A DIASTOLICA | | | | | | |
|----------------|-----------------|--------------------|-----|-----|-----|-----|-----|-----|---------------------|----|----|----|----|----|----|
| | | Percentil de Talla | | | | | | | Percentil de Talla: | | | | | | |
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | 5 | 10 | 25 | 50 | 75 | 90 | 95 |
| 10 | 50 | 97 | 98 | 100 | 102 | 103 | 105 | 106 | 58 | 59 | 60 | 61 | 61 | 62 | 63 |
| | 90 | 111 | 112 | 114 | 115 | 117 | 119 | 119 | 73 | 73 | 74 | 75 | 76 | 77 | 78 |
| | 95 | 115 | 116 | 117 | 119 | 121 | 122 | 123 | 77 | 78 | 79 | 80 | 81 | 81 | 82 |
| | 99 | 122 | 123 | 125 | 127 | 128 | 130 | 130 | 85 | 86 | 86 | 88 | 88 | 89 | 90 |
| 11 | 50 | 99 | 100 | 102 | 104 | 105 | 107 | 107 | 59 | 59 | 60 | 61 | 62 | 63 | 63 |
| | 90 | 113 | 114 | 115 | 117 | 119 | 120 | 121 | 74 | 74 | 75 | 76 | 77 | 78 | 78 |
| | 95 | 117 | 118 | 119 | 121 | 123 | 124 | 125 | 78 | 78 | 79 | 80 | 81 | 82 | 82 |
| | 99 | 124 | 125 | 127 | 129 | 130 | 132 | 132 | 86 | 86 | 87 | 88 | 89 | 90 | 90 |
| 12 | 50 | 101 | 102 | 104 | 106 | 108 | 109 | 110 | 59 | 60 | 61 | 62 | 63 | 63 | 64 |
| | 90 | 115 | 116 | 118 | 120 | 121 | 123 | 123 | 74 | 75 | 75 | 76 | 77 | 78 | 79 |
| | 95 | 119 | 120 | 122 | 123 | 125 | 127 | 127 | 78 | 79 | 80 | 81 | 82 | 82 | 83 |
| | 99 | 126 | 127 | 129 | 131 | 133 | 134 | 135 | 86 | 87 | 88 | 89 | 90 | 90 | 91 |
| 13 | 50 | 104 | 105 | 106 | 108 | 110 | 111 | 112 | 60 | 60 | 61 | 62 | 63 | 64 | 64 |
| | 90 | 117 | 118 | 120 | 122 | 124 | 125 | 126 | 75 | 75 | 76 | 77 | 78 | 79 | 79 |
| | 95 | 121 | 122 | 124 | 126 | 128 | 129 | 130 | 79 | 79 | 80 | 81 | 82 | 83 | 83 |
| | 99 | 128 | 130 | 131 | 133 | 135 | 136 | 137 | 87 | 87 | 88 | 89 | 90 | 91 | 91 |
| 14 | 50 | 106 | 107 | 109 | 111 | 113 | 114 | 115 | 60 | 61 | 62 | 63 | 64 | 65 | 65 |
| | 90 | 120 | 121 | 123 | 125 | 126 | 128 | 128 | 75 | 76 | 77 | 78 | 79 | 79 | 80 |
| | 95 | 124 | 125 | 127 | 128 | 130 | 132 | 132 | 80 | 80 | 81 | 82 | 83 | 84 | 84 |
| | 99 | 131 | 132 | 134 | 136 | 138 | 139 | 140 | 87 | 88 | 89 | 90 | 91 | 92 | 92 |
| 15 | 50 | 109 | 110 | 112 | 113 | 115 | 117 | 117 | 61 | 62 | 63 | 64 | 65 | 66 | 66 |
| | 90 | 122 | 124 | 125 | 127 | 129 | 130 | 131 | 76 | 77 | 78 | 79 | 80 | 80 | 81 |
| | 95 | 126 | 127 | 129 | 131 | 133 | 134 | 135 | 81 | 81 | 82 | 83 | 84 | 85 | 85 |
| | 99 | 134 | 135 | 136 | 138 | 140 | 142 | 142 | 88 | 89 | 90 | 91 | 92 | 93 | 93 |
| 16 | 50 | 111 | 112 | 114 | 116 | 118 | 119 | 120 | 63 | 63 | 64 | 65 | 66 | 67 | 67 |
| | 90 | 125 | 126 | 128 | 130 | 131 | 133 | 134 | 78 | 78 | 79 | 80 | 81 | 82 | 82 |
| | 95 | 129 | 130 | 132 | 134 | 135 | 137 | 137 | 82 | 83 | 83 | 84 | 85 | 86 | 87 |
| | 99 | 136 | 137 | 139 | 141 | 143 | 144 | 145 | 90 | 90 | 91 | 92 | 93 | 94 | 94 |
| 17 | 50 | 114 | 115 | 116 | 118 | 120 | 121 | 122 | 65 | 66 | 66 | 67 | 68 | 69 | 70 |
| | 90 | 127 | 128 | 130 | 132 | 134 | 135 | 136 | 80 | 80 | 81 | 82 | 83 | 84 | 84 |
| | 95 | 131 | 132 | 134 | 136 | 138 | 139 | 140 | 84 | 85 | 86 | 87 | 87 | 88 | 89 |
| | 99 | 139 | 140 | 141 | 143 | 145 | 146 | 147 | 92 | 93 | 93 | 94 | 95 | 96 | 97 |

Presión Arterial SISTOLICA y DIASTOLICA en VARONES de 1 a 17 años Niveles para percentiles 50, 90, 95 y 99 por percentiles de Talla (en mm.Hg.) Hoja 2 (10 años a 17 años)

| Edad (años) | Percentil PA | P A SISTOLICA | | | | | | | P A DIASTOLICA | | | | | | |
|-------------|--------------|--------------------|-----|-----|-----|-----|-----|-----|--------------------|----|----|----|----|----|----|
| | | Percentil de Talla | | | | | | | Percentil de Talla | | | | | | |
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | 5 | 10 | 25 | 50 | 75 | 90 | 95 |
| 10 | 50 | 97 | 98 | 100 | 102 | 103 | 105 | 106 | 58 | 59 | 60 | 61 | 61 | 62 | 63 |
| | 90 | 111 | 112 | 114 | 115 | 117 | 119 | 119 | 73 | 73 | 74 | 75 | 76 | 77 | 78 |
| | 95 | 115 | 116 | 117 | 119 | 121 | 122 | 123 | 77 | 78 | 79 | 80 | 81 | 81 | 82 |
| | 99 | 122 | 123 | 125 | 127 | 128 | 130 | 130 | 85 | 86 | 86 | 88 | 88 | 89 | 90 |
| 11 | 50 | 99 | 100 | 102 | 104 | 105 | 107 | 107 | 59 | 59 | 60 | 61 | 62 | 63 | 63 |
| | 90 | 113 | 114 | 115 | 117 | 119 | 120 | 121 | 74 | 74 | 75 | 76 | 77 | 78 | 78 |
| | 95 | 117 | 118 | 119 | 121 | 123 | 124 | 125 | 78 | 78 | 79 | 80 | 81 | 82 | 82 |
| | 99 | 124 | 125 | 127 | 129 | 130 | 132 | 132 | 86 | 86 | 87 | 88 | 89 | 90 | 90 |
| 12 | 50 | 101 | 102 | 104 | 106 | 108 | 109 | 110 | 59 | 60 | 61 | 62 | 63 | 63 | 64 |
| | 90 | 115 | 116 | 118 | 120 | 121 | 123 | 123 | 74 | 75 | 75 | 76 | 77 | 78 | 79 |
| | 95 | 119 | 120 | 122 | 123 | 125 | 127 | 127 | 78 | 79 | 80 | 81 | 82 | 82 | 83 |
| | 99 | 126 | 127 | 129 | 131 | 133 | 134 | 135 | 86 | 87 | 88 | 89 | 90 | 90 | 91 |
| 13 | 50 | 104 | 105 | 106 | 108 | 110 | 111 | 112 | 60 | 60 | 61 | 62 | 63 | 64 | 64 |
| | 90 | 117 | 118 | 120 | 122 | 124 | 125 | 126 | 75 | 75 | 76 | 77 | 78 | 79 | 79 |
| | 95 | 121 | 122 | 124 | 126 | 128 | 129 | 130 | 79 | 79 | 80 | 81 | 82 | 83 | 83 |
| | 99 | 128 | 130 | 131 | 133 | 135 | 136 | 137 | 87 | 87 | 88 | 89 | 90 | 91 | 91 |
| 14 | 50 | 106 | 107 | 109 | 111 | 113 | 114 | 115 | 60 | 61 | 62 | 63 | 64 | 65 | 65 |
| | 90 | 120 | 121 | 123 | 125 | 126 | 128 | 128 | 75 | 76 | 77 | 78 | 79 | 79 | 80 |
| | 95 | 124 | 125 | 127 | 128 | 130 | 132 | 132 | 80 | 80 | 81 | 82 | 83 | 84 | 84 |
| | 99 | 131 | 132 | 134 | 136 | 138 | 139 | 140 | 87 | 88 | 89 | 90 | 91 | 92 | 92 |
| 15 | 50 | 109 | 110 | 112 | 113 | 115 | 117 | 117 | 61 | 62 | 63 | 64 | 65 | 66 | 66 |
| | 90 | 122 | 124 | 125 | 127 | 129 | 130 | 131 | 76 | 77 | 78 | 79 | 80 | 80 | 81 |
| | 95 | 126 | 127 | 129 | 131 | 133 | 134 | 135 | 81 | 81 | 82 | 83 | 84 | 85 | 85 |
| | 99 | 134 | 135 | 136 | 138 | 140 | 142 | 142 | 88 | 89 | 90 | 91 | 92 | 93 | 93 |
| 16 | 50 | 111 | 112 | 114 | 116 | 118 | 119 | 120 | 63 | 63 | 64 | 65 | 66 | 67 | 67 |
| | 90 | 125 | 126 | 128 | 130 | 132 | 133 | 134 | 79 | 79 | 80 | 81 | 82 | 82 | 83 |
| | 95 | 129 | 130 | 132 | 134 | 136 | 137 | 138 | 84 | 84 | 85 | 86 | 87 | 87 | 88 |
| | 99 | 137 | 138 | 140 | 142 | 144 | 146 | 146 | 91 | 91 | 92 | 93 | 94 | 94 | 95 |
| 17 | 50 | 113 | 114 | 116 | 118 | 120 | 121 | 122 | 65 | 65 | 66 | 67 | 68 | 69 | 70 |
| | 90 | 127 | 128 | 130 | 132 | 134 | 135 | 136 | 80 | 80 | 81 | 82 | 83 | 84 | 84 |
| | 95 | 131 | 132 | 134 | 136 | 138 | 139 | 140 | 85 | 85 | 86 | 87 | 87 | 88 | 89 |
| | 99 | 139 | 140 | 141 | 143 | 145 | 147 | 147 | 92 | 93 | 93 | 94 | 95 | 96 | 97 |

>140/90 mmhg

Presión Arterial SISTOLICA y DIASTOLICA en MUJERES de 1 a 17 años Niveles para percentiles 50, 90, 95 y 99 por percentiles de Talla (en mm.Hg.) Hoja 1 (1 año a 9 años)

| Edad (años) | Percentil PA | P A SISTOLICA | | | | | | | P A DIASTOLICA | | | | | | |
|----------------|-----------------|--------------------|-----|-----|-----|-----|-----|-----|---------------------|----|----|----|----|----|----|
| | | Percentil de Talla | | | | | | | Percentil de Talla: | | | | | | |
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | 5 | 10 | 25 | 50 | 75 | 90 | 95 |
| 1 | 50 | 83 | 84 | 85 | 86 | 88 | 89 | 90 | 38 | 39 | 39 | 40 | 41 | 41 | 42 |
| | 90 | 97 | 97 | 98 | 100 | 101 | 102 | 103 | 52 | 53 | 53 | 54 | 55 | 55 | 56 |
| | 95 | 100 | 101 | 102 | 104 | 105 | 106 | 107 | 56 | 57 | 57 | 58 | 59 | 59 | 60 |
| | 99 | 108 | 108 | 109 | 111 | 112 | 113 | 114 | 64 | 64 | 65 | 65 | 66 | 67 | 67 |
| 2 | 50 | 85 | 85 | 87 | 88 | 89 | 91 | 91 | 43 | 44 | 44 | 45 | 46 | 46 | 47 |
| | 90 | 98 | 99 | 100 | 101 | 103 | 104 | 105 | 57 | 58 | 58 | 59 | 60 | 61 | 61 |
| | 95 | 102 | 103 | 104 | 105 | 107 | 108 | 109 | 61 | 62 | 62 | 63 | 64 | 65 | 65 |
| | 99 | 109 | 110 | 111 | 112 | 114 | 115 | 116 | 69 | 69 | 70 | 70 | 71 | 72 | 72 |
| 3 | 50 | 86 | 87 | 88 | 89 | 91 | 92 | 93 | 47 | 48 | 48 | 49 | 50 | 50 | 51 |
| | 90 | 100 | 100 | 102 | 103 | 104 | 106 | 106 | 61 | 62 | 62 | 63 | 64 | 64 | 65 |
| | 95 | 104 | 104 | 105 | 107 | 108 | 109 | 110 | 65 | 66 | 66 | 67 | 68 | 68 | 69 |
| | 99 | 111 | 111 | 113 | 114 | 115 | 116 | 117 | 73 | 73 | 74 | 74 | 75 | 76 | 76 |
| 4 | 50 | 88 | 88 | 90 | 91 | 92 | 94 | 94 | 50 | 50 | 51 | 52 | 52 | 53 | 54 |
| | 90 | 101 | 102 | 103 | 104 | 106 | 107 | 108 | 64 | 64 | 65 | 66 | 67 | 67 | 68 |
| | 95 | 105 | 106 | 107 | 108 | 110 | 111 | 112 | 68 | 68 | 69 | 70 | 71 | 71 | 72 |
| | 99 | 112 | 113 | 114 | 115 | 117 | 118 | 119 | 76 | 76 | 76 | 77 | 78 | 79 | 79 |
| 5 | 50 | 89 | 90 | 91 | 93 | 94 | 95 | 96 | 52 | 53 | 53 | 54 | 55 | 55 | 56 |
| | 90 | 103 | 103 | 105 | 106 | 107 | 109 | 109 | 66 | 67 | 67 | 68 | 69 | 69 | 70 |
| | 95 | 107 | 107 | 108 | 110 | 111 | 112 | 113 | 70 | 71 | 71 | 72 | 73 | 73 | 74 |
| | 99 | 114 | 114 | 116 | 117 | 118 | 120 | 120 | 78 | 78 | 79 | 79 | 80 | 81 | 81 |
| 6 | 50 | 91 | 92 | 93 | 94 | 96 | 97 | 98 | 54 | 54 | 55 | 56 | 56 | 57 | 58 |
| | 90 | 104 | 105 | 106 | 108 | 109 | 110 | 111 | 68 | 68 | 69 | 70 | 70 | 71 | 72 |
| | 95 | 108 | 109 | 110 | 111 | 113 | 114 | 115 | 72 | 72 | 73 | 74 | 74 | 75 | 76 |
| | 99 | 115 | 116 | 117 | 119 | 120 | 121 | 122 | 80 | 80 | 80 | 81 | 82 | 83 | 83 |
| 7 | 50 | 93 | 93 | 95 | 96 | 97 | 99 | 99 | 55 | 56 | 56 | 57 | 58 | 58 | 59 |
| | 90 | 106 | 107 | 108 | 109 | 111 | 112 | 113 | 69 | 70 | 70 | 71 | 72 | 72 | 73 |
| | 95 | 110 | 111 | 112 | 113 | 115 | 116 | 116 | 73 | 74 | 74 | 75 | 76 | 76 | 77 |
| | 99 | 117 | 118 | 119 | 120 | 122 | 123 | 124 | 81 | 81 | 82 | 82 | 83 | 84 | 84 |
| 8 | 50 | 95 | 95 | 96 | 98 | 99 | 100 | 101 | 57 | 57 | 57 | 58 | 59 | 60 | 60 |
| | 90 | 108 | 109 | 110 | 111 | 113 | 114 | 114 | 71 | 71 | 71 | 72 | 73 | 74 | 74 |
| | 95 | 112 | 112 | 114 | 115 | 116 | 118 | 118 | 75 | 75 | 75 | 76 | 77 | 78 | 78 |
| | 99 | 119 | 120 | 121 | 122 | 123 | 125 | 125 | 82 | 82 | 83 | 83 | 84 | 85 | 86 |
| 9 | 50 | 96 | 97 | 98 | 100 | 101 | 102 | 103 | 58 | 58 | 58 | 59 | 60 | 61 | 61 |
| | 90 | 110 | 110 | 112 | 113 | 114 | 116 | 116 | 72 | 72 | 72 | 73 | 74 | 75 | 75 |
| | 95 | 114 | 114 | 115 | 117 | 118 | 119 | 120 | 76 | 76 | 76 | 77 | 78 | 79 | 79 |
| | 99 | 121 | 121 | 123 | 124 | 125 | 127 | 127 | 83 | 83 | 84 | 84 | 85 | 86 | 87 |

Presión Arterial SISTOLICA y DIASTOLICA en MUJERES de 1 a 17 años Niveles para percentiles 50, 90, 95 y 99 por percentiles de Talla (en mm.Hg.)

Hoja 2 (10 años a 17 años)

| Edad (años) | Percentil P.A. | P.A SISTOLICA | | | | | | | | P.A DIASTOLICA | | | | | | | |
|-------------|----------------|--------------------|-----|-----|-----|-----|-----|-----|--|--------------------|----|----|----|----|----|----|--|
| | | Percentil de Talla | | | | | | | | Percentil de Talla | | | | | | | |
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | |
| 10 | 50 | 98 | 99 | 100 | 102 | 103 | 104 | 105 | | 59 | 59 | 59 | 60 | 61 | 62 | 62 | |
| | 90 | 112 | 112 | 114 | 115 | 116 | 118 | 118 | | 73 | 73 | 73 | 74 | 75 | 76 | 76 | |
| | 95 | 116 | 116 | 117 | 119 | 120 | 121 | 122 | | 77 | 77 | 77 | 78 | 79 | 80 | 80 | |
| | 99 | 123 | 123 | 125 | 126 | 127 | 129 | 129 | | 84 | 84 | 85 | 86 | 86 | 87 | 88 | |
| 11 | 50 | 100 | 101 | 102 | 103 | 105 | 106 | 107 | | 60 | 60 | 60 | 61 | 62 | 63 | 63 | |
| | 90 | 114 | 114 | 116 | 117 | 118 | 119 | 120 | | 74 | 74 | 74 | 75 | 76 | 77 | 77 | |
| | 95 | 118 | 118 | 119 | 121 | 122 | 123 | 124 | | 78 | 78 | 78 | 79 | 80 | 81 | 81 | |
| | 99 | 125 | 125 | 126 | 128 | 129 | 130 | 131 | | 85 | 85 | 86 | 87 | 87 | 88 | 89 | |
| 12 | 50 | 102 | 103 | 104 | 105 | 107 | 108 | 109 | | 61 | 61 | 61 | 62 | 63 | 64 | 64 | |
| | 90 | 116 | 116 | 117 | 119 | 120 | 121 | 122 | | 75 | 75 | 75 | 76 | 77 | 78 | 78 | |
| | 95 | 119 | 120 | 121 | 123 | 124 | 125 | 126 | | 79 | 79 | 79 | 80 | 81 | 82 | 82 | |
| | 99 | 127 | 127 | 128 | 130 | 131 | 132 | 133 | | 86 | 86 | 87 | 88 | 88 | 89 | 90 | |
| 13 | 50 | 104 | 105 | 106 | 107 | 109 | 110 | 110 | | 62 | 62 | 62 | 63 | 64 | 65 | 65 | |
| | 90 | 117 | 118 | 119 | 121 | 122 | 123 | 124 | | 76 | 76 | 76 | 77 | 78 | 79 | 79 | |
| | 95 | 121 | 122 | 123 | 124 | 126 | 127 | 128 | | 80 | 80 | 80 | 81 | 82 | 83 | 83 | |
| | 99 | 128 | 129 | 130 | 132 | 133 | 134 | 135 | | 87 | 87 | 88 | 89 | 89 | 90 | 91 | |
| 14 | 50 | 106 | 106 | 107 | 109 | 110 | 111 | 112 | | 63 | 63 | 63 | 64 | 65 | 66 | 66 | |
| | 90 | 119 | 120 | 121 | 122 | 124 | 125 | 125 | | 77 | 77 | 77 | 78 | 79 | 80 | 80 | |
| | 95 | 123 | 123 | 125 | 126 | 127 | 129 | 129 | | 81 | 81 | 81 | 82 | 83 | 84 | 84 | |
| | 99 | 130 | 131 | 132 | 133 | 135 | 136 | 136 | | 88 | 88 | 89 | 90 | 90 | 91 | 92 | |
| 15 | 50 | 107 | 108 | 109 | 110 | 111 | 113 | 113 | | 64 | 64 | 64 | 65 | 66 | 67 | 67 | |
| | 90 | 120 | 121 | 122 | 123 | 125 | 126 | 127 | | 78 | 78 | 78 | 79 | 80 | 81 | 81 | |
| | 95 | 124 | 125 | 126 | 127 | 129 | 130 | 131 | | 82 | 82 | 82 | 83 | 84 | 85 | 85 | |
| | 99 | 131 | 132 | 133 | 134 | 136 | 137 | 138 | | 89 | 89 | 90 | 91 | 91 | 92 | 93 | |
| 16 | 50 | 108 | 108 | 110 | 111 | 112 | 114 | 114 | | 64 | 64 | 65 | 66 | 66 | 67 | 68 | |
| | 90 | 121 | 122 | 123 | 124 | 126 | 127 | 128 | | 78 | 78 | 79 | 80 | 81 | 81 | 82 | |
| | 95 | 125 | 126 | 127 | 128 | 130 | 131 | 132 | | 82 | 82 | 83 | 84 | 85 | 85 | 86 | |
| | 99 | 132 | 133 | 134 | 135 | 137 | 138 | 139 | | 90 | 90 | 90 | 91 | 92 | 93 | 93 | |
| 17 | 50 | 108 | 109 | 110 | 111 | 113 | 114 | 115 | | 64 | 65 | 65 | 66 | 67 | 67 | 68 | |
| | 90 | 122 | 122 | 123 | 125 | 126 | 127 | 128 | | 78 | 79 | 79 | 80 | 81 | 81 | 82 | |
| | 95 | 125 | 126 | 127 | 129 | 130 | 131 | 132 | | 82 | 83 | 83 | 84 | 85 | 85 | 86 | |
| | 99 | 133 | 133 | 134 | 136 | 137 | 138 | 139 | | 90 | 90 | 91 | 91 | 92 | 93 | 93 | |

Presión Arterial SISTOLICA y DIASTOLICA en MUJERES de 1 a 17 años Niveles para percentiles 50, 90, 95 y 99 por percentiles de Talla (en mm.Hg.)

Hoja 2 (10 años a 17 años)

| Edad (años) | Percentil PA. | P.A. SISTOLICA | | | | | | | | P.A. DIASTOLICA | | | | | | | |
|-------------|---------------|--------------------|-----|-----|-----|-----|-----|-----|-----|--------------------|----|----|----|----|----|----|--|
| | | Percentil de Talla | | | | | | | | Percentil de Talla | | | | | | | |
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | 99 | 5 | 10 | 25 | 50 | 75 | 90 | 95 | |
| 10 | 50 | 100 | 100 | 100 | 102 | 103 | 104 | 105 | 106 | 69 | 69 | 69 | 70 | 71 | 72 | 72 | |
| | 90 | 112 | 112 | 114 | 115 | 116 | 118 | 118 | 119 | 73 | 73 | 73 | 74 | 75 | 76 | 76 | |
| | 95 | 116 | 116 | 117 | 119 | 120 | 121 | 122 | 122 | 77 | 77 | 77 | 78 | 79 | 80 | 80 | |
| | 99 | 123 | 123 | 125 | 126 | 127 | 129 | 129 | 130 | 84 | 84 | 85 | 86 | 86 | 87 | 88 | |
| 11 | 50 | 100 | 101 | 102 | 103 | 105 | 106 | 107 | 108 | 60 | 60 | 60 | 61 | 62 | 63 | 63 | |
| | 90 | 114 | 114 | 116 | 117 | 118 | 119 | 120 | 121 | 74 | 74 | 74 | 75 | 76 | 77 | 77 | |
| | 95 | 118 | 118 | 119 | 121 | 122 | 123 | 124 | 124 | 78 | 78 | 78 | 79 | 80 | 81 | 81 | |
| | 99 | 125 | 125 | 126 | 128 | 129 | 130 | 131 | 132 | 85 | 85 | 86 | 87 | 87 | 88 | 89 | |
| 12 | 50 | 102 | 103 | 104 | 105 | 107 | 108 | 109 | 110 | 61 | 61 | 61 | 62 | 63 | 64 | 64 | |
| | 90 | 116 | 116 | 117 | 119 | 120 | 121 | 122 | 123 | 75 | 75 | 75 | 76 | 77 | 78 | 78 | |
| | 95 | 119 | 120 | 121 | 123 | 124 | 125 | 126 | 127 | 79 | 79 | 79 | 80 | 81 | 82 | 82 | |
| | 99 | 127 | 127 | 128 | 130 | 131 | 132 | 133 | 134 | 86 | 86 | 87 | 88 | 88 | 89 | 90 | |
| 13 | 50 | 104 | 105 | 106 | 107 | 109 | 110 | 110 | 111 | 62 | 62 | 62 | 63 | 64 | 65 | 65 | |
| | 90 | 117 | 118 | 119 | 121 | 122 | 123 | 124 | 125 | 76 | 76 | 76 | 77 | 78 | 79 | 79 | |
| | 95 | 121 | 122 | 123 | 124 | 126 | 127 | 128 | 129 | 80 | 80 | 80 | 81 | 82 | 83 | 83 | |
| | 99 | 128 | 129 | 130 | 132 | 133 | 134 | 135 | 136 | 87 | 87 | 88 | 89 | 89 | 90 | 91 | |
| 14 | 50 | 106 | 106 | 107 | 109 | 110 | 111 | 112 | 113 | 63 | 63 | 63 | 64 | 65 | 66 | 66 | |
| | 90 | 119 | 120 | 121 | 122 | 124 | 125 | 125 | 126 | 77 | 77 | 77 | 78 | 79 | 80 | 80 | |
| | 95 | 123 | 123 | 125 | 126 | 127 | 129 | 129 | 130 | 81 | 81 | 81 | 82 | 83 | 84 | 84 | |
| | 99 | 130 | 131 | 132 | 133 | 135 | 136 | 136 | 137 | 88 | 88 | 89 | 90 | 90 | 91 | 92 | |
| 15 | 50 | 107 | 108 | 109 | 110 | 111 | 113 | 113 | 114 | 64 | 64 | 64 | 65 | 66 | 67 | 67 | |
| | 90 | 120 | 121 | 122 | 123 | 125 | 126 | 127 | 128 | 78 | 78 | 78 | 79 | 80 | 81 | 81 | |
| | 95 | 124 | 125 | 126 | 127 | 129 | 130 | 131 | 132 | 82 | 82 | 82 | 83 | 84 | 85 | 85 | |
| | 99 | 131 | 132 | 133 | 134 | 136 | 137 | 138 | 139 | 89 | 89 | 90 | 91 | 91 | 92 | 93 | |
| 16 | 50 | 108 | 108 | 110 | 111 | 112 | 114 | 114 | 115 | 64 | 64 | 65 | 66 | 66 | 67 | 68 | |
| | 90 | 121 | 122 | 123 | 124 | 126 | 127 | 128 | 129 | 78 | 78 | 79 | 80 | 81 | 81 | 82 | |
| | 95 | 125 | 126 | 127 | 128 | 130 | 131 | 132 | 133 | 82 | 82 | 83 | 84 | 85 | 85 | 86 | |
| | 99 | 132 | 133 | 134 | 135 | 137 | 138 | 139 | 140 | 90 | 90 | 90 | 91 | 92 | 93 | 93 | |
| 17 | 50 | 108 | 109 | 110 | 111 | 113 | 114 | 115 | 116 | 64 | 65 | 65 | 66 | 67 | 67 | 68 | |
| | 90 | 122 | 122 | 123 | 125 | 126 | 127 | 128 | 129 | 78 | 79 | 79 | 80 | 81 | 81 | 82 | |
| | 95 | 125 | 126 | 127 | 129 | 130 | 131 | 132 | 133 | 82 | 83 | 83 | 84 | 85 | 85 | 86 | |
| | 99 | 133 | 133 | 134 | 136 | 137 | 138 | 139 | 140 | 90 | 90 | 91 | 91 | 92 | 93 | 93 | |

Presión Arterial SISTOLICA y DIASTOLICA en MUJERES de 1 a 17 años Niveles para percentiles 50, 90, 95 y 99 por percentiles de Talla (en mm.Hg.)

Tabla 2 (10 años a 17 años)

| Edad (años) | Percentil PA. | P.A SISTOLICA | | | | | | | P.A DIASTOLICA | | | | | | |
|-------------|---------------|--------------------|-----|-----|-----|-----|-----|-----|--------------------|----|----|----|----|----|----|
| | | Percentil de Talla | | | | | | | Percentil de Talla | | | | | | |
| | | 5 | 10 | 25 | 50 | 75 | 90 | 95 | 5 | 10 | 25 | 50 | 75 | 90 | 95 |
| 10 | 90 | 112 | 112 | 114 | 115 | 116 | 118 | 118 | 73 | 73 | 73 | 74 | 75 | 76 | 76 |
| | 95 | 116 | 116 | 117 | 119 | 120 | 121 | 122 | 77 | 77 | 77 | 78 | 79 | 80 | 80 |
| | 99 | 123 | 123 | 125 | 126 | 127 | 129 | 129 | 84 | 84 | 85 | 86 | 86 | 87 | 88 |
| 11 | 50 | 100 | 101 | 102 | 103 | 105 | 106 | 107 | 60 | 60 | 60 | 61 | 62 | 63 | 63 |
| | 90 | 114 | 114 | 116 | 117 | 118 | 119 | 120 | 74 | 74 | 74 | 75 | 76 | 77 | 77 |
| | 95 | 118 | 118 | 119 | 121 | 122 | 123 | 124 | 78 | 78 | 78 | 79 | 80 | 81 | 81 |
| 12 | 99 | 125 | 125 | 126 | 128 | 129 | 130 | 131 | 85 | 85 | 86 | 87 | 87 | 88 | 89 |
| | 50 | 102 | 103 | 104 | 105 | 107 | 108 | 109 | 61 | 61 | 61 | 62 | 63 | 64 | 64 |
| | 90 | 116 | 116 | 117 | 119 | 120 | 121 | 122 | 75 | 75 | 75 | 76 | 77 | 78 | 78 |
| 13 | 95 | 119 | 120 | 121 | 123 | 124 | 125 | 126 | 79 | 79 | 79 | 80 | 81 | 82 | 82 |
| | 99 | 127 | 127 | 128 | 130 | 131 | 132 | 133 | 86 | 86 | 87 | 88 | 88 | 89 | 90 |
| | 50 | 104 | 105 | 106 | 107 | 109 | 110 | 110 | 62 | 62 | 62 | 63 | 64 | 65 | 65 |
| 14 | 90 | 117 | 118 | 119 | 121 | 122 | 123 | 124 | 76 | 76 | 76 | 77 | 78 | 79 | 79 |
| | 95 | 121 | 122 | 123 | 124 | 126 | 127 | 128 | 80 | 80 | 80 | 81 | 82 | 83 | 83 |
| | 99 | 128 | 129 | 130 | 132 | 133 | 134 | 135 | 87 | 87 | 88 | 89 | 89 | 90 | 91 |
| 15 | 50 | 106 | 106 | 107 | 109 | 110 | 111 | 112 | 63 | 63 | 63 | 64 | 65 | 66 | 66 |
| | 90 | 119 | 120 | 121 | 122 | 124 | 125 | 125 | 77 | 77 | 77 | 78 | 79 | 80 | 80 |
| | 95 | 123 | 123 | 125 | 126 | 127 | 129 | 129 | 81 | 81 | 81 | 82 | 83 | 84 | 84 |
| 16 | 99 | 130 | 131 | 132 | 133 | 135 | 136 | 136 | 88 | 88 | 89 | 90 | 90 | 91 | 92 |
| | 50 | 107 | 108 | 109 | 110 | 111 | 113 | 113 | 64 | 64 | 64 | 65 | 66 | 67 | 67 |
| | 90 | 120 | 121 | 122 | 123 | 125 | 126 | 127 | 78 | 78 | 78 | 79 | 80 | 81 | 81 |
| 17 | 95 | 124 | 125 | 126 | 127 | 129 | 130 | 131 | 82 | 82 | 82 | 83 | 84 | 85 | 85 |
| | 99 | 131 | 132 | 133 | 134 | 136 | 137 | 138 | 89 | 89 | 90 | 91 | 91 | 92 | 93 |
| | 50 | 108 | 108 | 110 | 111 | 112 | 114 | 114 | 64 | 64 | 65 | 66 | 66 | 67 | 68 |
| 17 | 90 | 121 | 122 | 123 | 124 | 126 | 127 | 128 | 78 | 78 | 79 | 80 | 81 | 81 | 82 |
| | 95 | 125 | 125 | 126 | 127 | 129 | 130 | 131 | 82 | 82 | 82 | 83 | 84 | 85 | 86 |
| | 99 | 133 | 133 | 134 | 135 | 137 | 138 | 139 | 90 | 90 | 91 | 91 | 92 | 93 | 93 |

>140/ 90 mmhg

National High Blood Pressure Education Program Working Group on High Blood Pressure in Children and Adolescents. Pediatrics. 2004, 114 (2): 555 -57

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CLINICAL PRACTICE GUIDELINE Guidance for the Clinician in Rendering Pediatric Care

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™

Clinical Practice Guideline for Screening and Management of High Blood Pressure in Children and Adolescents

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Pediatrics online August 22, 2017

HTA DEFINICIÓN

TABLE 3 Updated Definitions of BP Categories and Stages

| For Children Aged 1–13 y | For Children Aged ≥13 y |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Normal BP: <90th percentile | Normal BP: <120/<80 mm Hg |
| Elevated BP: ≥90th percentile to <95th percentile or 120/80 mm Hg to <95th percentile (whichever is lower) | Elevated BP: 120/<80 to 129/<80 mm Hg |
| Stage 1 HTN: ≥95th percentile to <95th percentile + 12 mmHg, or 130/80 to 139/89 mm Hg (whichever is lower) | Stage 1 HTN: 130/80 to 139/89 mm Hg |
| Stage 2 HTN: ≥95th percentile + 12 mm Hg, or ≥140/90 mm Hg (whichever is lower) | Stage 2 HTN: ≥140/90 mm Hg |

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TABLAS DE P.A. EN NIÑOS Y ADOLESCENTES

TABLE 4 Continued **NIÑOS**

| Age (y) | BP Percentile | SBP (mm Hg) | | | | | | DBP (mm Hg) | | | | | | | |
|---------|-----------------|--------------------------------------|-------|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | Height Percentile or Measured Height | | | | | | Height Percentile or Measured Height | | | | | | | |
| | | 5% | 10% | 25% | 50% | 75% | 90% | 95% | 5%* | 10% | 25% | 50% | 75% | 90% | 95% |
| 15 | Height (in) | 62.6 | 63.8 | 65.7 | 67.8 | 69.8 | 71.5 | 72.5 | 62.6 | 63.8 | 65.7 | 67.8 | 69.8 | 71.5 | 72.5 |
| | Height (cm) | 159 | 162 | 166.9 | 172.2 | 177.2 | 181.6 | 184.2 | 159 | 162 | 166.9 | 172.2 | 177.2 | 181.6 | 184.2 |
| | 50th | 108 | 110 | 112 | 113 | 114 | 114 | 114 | 61 | 62 | 64 | 65 | 66 | 67 | 68 |
| | 90th | 123 | 124 | 126 | 128 | 129 | 130 | 130 | 75 | 76 | 78 | 79 | 80 | 81 | 81 |
| | 95th | 127 | 129 | 131 | 132 | 134 | 135 | 135 | 78 | 79 | 81 | 83 | 84 | 85 | 85 |
| | 95th + 12 mm Hg | 139 | 141 | 143 | 144 | 146 | 147 | 147 | 90 | 91 | 93 | 95 | 96 | 97 | 97 |
| 16 | Height (in) | 63.8 | 64.9 | 66.8 | 68.8 | 70.7 | 72.4 | 73.4 | 63.8 | 64.9 | 66.8 | 68.8 | 70.7 | 72.4 | 73.4 |
| | Height (cm) | 162.1 | 165 | 169.6 | 174.6 | 179.5 | 183.8 | 186.4 | 162.1 | 165 | 169.6 | 174.6 | 179.5 | 183.8 | 186.4 |
| | 50th | 111 | 112 | 114 | 115 | 115 | 116 | 116 | 63 | 64 | 66 | 67 | 68 | 69 | 69 |
| | 90th | 126 | 127 | 128 | 129 | 131 | 131 | 132 | 77 | 78 | 79 | 80 | 81 | 82 | 82 |
| | 95th | 130 | 131 | 133 | 134 | 135 | 136 | 137 | 80 | 81 | 83 | 84 | 85 | 86 | 86 |
| | 95th + 12 mm Hg | 142 | 143 | 145 | 146 | 147 | 148 | 149 | 92 | 93 | 95 | 96 | 97 | 98 | 98 |
| 17 | Height (in) | 64.5 | 65.5 | 67.3 | 69.2 | 71.1 | 72.8 | 73.8 | 64.5 | 65.5 | 67.3 | 69.2 | 71.1 | 72.8 | 73.8 |
| | Height (cm) | 163.8 | 166.5 | 170.9 | 175.8 | 180.7 | 184.9 | 187.5 | 163.8 | 166.5 | 170.9 | 175.8 | 180.7 | 184.9 | 187.5 |
| | 50th | 114 | 115 | 116 | 117 | 117 | 118 | 118 | 65 | 66 | 67 | 68 | 69 | 70 | 70 |
| | 90th | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 78 | 79 | 80 | 81 | 82 | 82 | 83 |
| | 95th | 132 | 133 | 134 | 135 | 137 | 138 | 138 | 81 | 82 | 84 | 85 | 86 | 86 | 87 |
| | 95th + 12 mm Hg | 144 | 145 | 146 | 147 | 149 | 150 | 150 | 93 | 94 | 96 | 97 | 98 | 98 | 99 |

Use percentile values to stage BP readings according to the scheme in Table 3 (elevated BP: ≥ 90 th percentile; stage 1 HTN: ≥ 95 th percentile; and stage 2 HTN: ≥ 95 th percentile + 12 mm Hg). The 50th, 90th, and 95th percentiles were derived by using quantile regression on the basis of normal-weight children (BMI < 85 th percentile).⁷⁷

TABLAS DE P.A. EN NIÑAS Y ADOLESCENTES

TABLE 5 Continued

NIÑAS

| Age (y) | BP Percentile | SBP (mm Hg) | | | | | | DBP (mm Hg) | | | | | | | |
|---------|-----------------|--------------------------------------|-------|-------|-------|-------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | Height Percentile or Measured Height | | | | | | Height Percentile or Measured Height | | | | | | | |
| | | 5% | 10% | 25% | 50% | 75% | 90% | 95% | 5% | 10% | 25% | 50% | 75% | 90% | 95% |
| 15 | Height (in) | 59.7 | 60.6 | 62.2 | 63.9 | 65.6 | 67.2 | 68.1 | 59.7 | 60.6 | 62.2 | 63.9 | 65.6 | 67.2 | 68.1 |
| | Height (cm) | 151.7 | 154 | 157.9 | 162.3 | 166.7 | 170.9 | 173 | 151.7 | 154 | 157.9 | 162.3 | 166.7 | 170.6 | 173 |
| | 50th | 105 | 106 | 107 | 108 | 109 | 109 | 109 | 64 | 64 | 64 | 65 | 66 | 67 | 67 |
| | 90th | 118 | 119 | 121 | 122 | 123 | 123 | 124 | 76 | 76 | 76 | 77 | 77 | 78 | 78 |
| | 95th | 124 | 124 | 125 | 126 | 127 | 127 | 128 | 80 | 80 | 80 | 81 | 82 | 82 | 82 |
| | 95th + 12 mm Hg | 136 | 136 | 137 | 138 | 139 | 139 | 140 | 92 | 92 | 92 | 93 | 94 | 94 | 94 |
| 16 | Height (in) | 59.9 | 60.8 | 62.4 | 64.1 | 65.8 | 67.5 | 68.3 | 59.9 | 60.8 | 62.4 | 64.1 | 65.8 | 67.3 | 68.3 |
| | Height (cm) | 152.1 | 154.5 | 158.4 | 162.8 | 167.1 | 171.1 | 173.4 | 152.1 | 154.5 | 158.4 | 162.8 | 167.1 | 171.1 | 173.4 |
| | 50th | 106 | 107 | 108 | 109 | 109 | 110 | 110 | 64 | 64 | 65 | 66 | 66 | 67 | 67 |
| | 90th | 119 | 120 | 122 | 123 | 124 | 124 | 124 | 76 | 76 | 76 | 77 | 78 | 78 | 78 |
| | 95th | 124 | 125 | 125 | 127 | 127 | 128 | 128 | 80 | 80 | 80 | 81 | 82 | 82 | 82 |
| | 95th + 12 mm Hg | 136 | 137 | 137 | 139 | 139 | 140 | 140 | 92 | 92 | 92 | 93 | 94 | 94 | 94 |
| 17 | Height (in) | 60.0 | 60.9 | 62.5 | 64.2 | 65.9 | 67.4 | 68.4 | 60.0 | 60.9 | 62.5 | 64.2 | 65.9 | 67.4 | 68.4 |
| | Height (cm) | 152.4 | 154.7 | 158.7 | 163.0 | 167.4 | 171.5 | 173.7 | 152.4 | 154.7 | 158.7 | 163.0 | 167.4 | 171.5 | 173.7 |
| | 50th | 107 | 108 | 109 | 110 | 110 | 110 | 111 | 64 | 64 | 65 | 66 | 66 | 66 | 67 |
| | 90th | 120 | 121 | 123 | 124 | 124 | 125 | 125 | 76 | 76 | 77 | 77 | 78 | 78 | 78 |
| | 95th | 125 | 125 | 126 | 127 | 128 | 128 | 128 | 80 | 80 | 80 | 81 | 82 | 82 | 82 |
| | 95th + 12 mm Hg | 137 | 137 | 138 | 139 | 140 | 140 | 140 | 92 | 92 | 92 | 93 | 94 | 94 | 94 |

Use percentile values to stage BP readings according to the scheme in Table 3 (elevated BP: ≥ 90 th percentile; stage 1 HTN: ≥ 95 th percentile; and stage 2 HTN: ≥ 95 th percentile + 12 mm Hg). The 50th, 90th, and 95th percentiles were derived by using quantile regression on the basis of normal-weight children (BMI < 85 th percentile).¹⁷

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J Flynn et al. American Academy of Pediatrics. Pediatrics online August 22, 2017

Indicaciones de MAPA en Pediatría

- ▶ Descartar hipertensión de guardapolvo blanco
- ▶ Diabetes
- ▶ Enfermedad renal crónica.
- ▶ Trasplante renal, hepático y cardíaco.
- ▶ Durante el tratamiento con fármacos antihipertensivos.
- ▶ Evaluación de la hipertensión refractaria.
- ▶ Diagnóstico de hipertensión oculta o enmascarada.
- ▶ Síntomas de hipotensión.
- ▶ Disfunción autonómica.
- ▶ Ensayos clínicos.
- ▶ En pacientes con sospecha de feocromocitoma con hipertensión paroxística.

Tablas de Valores de MAPA en Po. por talla para niños y niñas

Table 3. 90th and 95th Percentiles of Mean Daytime and Nighttime Ambulatory Systolic and Diastolic BP, Stratified According to Gender and Height

| Height, cm | Systolic BP, mm Hg | | | | Diastolic BP, mm Hg | | | |
|--------------|--------------------|----------|----------|----------|---------------------|----------|----------|----------|
| | Day | | Night | | Day | | Night | |
| | 90th pct | 95th pct | 90th pct | 95th pct | 90th pct | 95th pct | 90th pct | 95th pct |
| Boys | | | | | | | | |
| 120 | 120.6 | 123.5 | 103.7 | 106.4 | 79.1 | 81.2 | 61.9 | 64.1 |
| 125 | 121.0 | 124.0 | 104.9 | 107.8 | 79.8 | 81.3 | 62.2 | 64.3 |
| 130 | 121.6 | 124.6 | 106.3 | 109.5 | 79.3 | 81.4 | 62.4 | 64.5 |
| 135 | 122.2 | 125.2 | 107.7 | 111.3 | 79.3 | 81.3 | 62.7 | 64.8 |
| 140 | 123.0 | 126.0 | 109.3 | 113.1 | 79.2 | 81.2 | 62.9 | 65.0 |
| 145 | 124.0 | 127.0 | 110.7 | 114.7 | 79.1 | 81.1 | 63.1 | 65.2 |
| 150 | 125.4 | 128.5 | 111.9 | 115.9 | 79.1 | 81.0 | 63.3 | 65.4 |
| 155 | 127.2 | 130.2 | 113.1 | 117.0 | 79.2 | 81.1 | 63.4 | 65.6 |
| 160 | 122.2 | 132.3 | 114.3 | 118.0 | 79.3 | 81.3 | 63.6 | 65.7 |
| 165 | 131.3 | 134.5 | 115.5 | 119.1 | 79.7 | 81.7 | 63.7 | 65.8 |
| 170 | 133.5 | 136.7 | 116.8 | 120.2 | 80.1 | 82.2 | 63.8 | 65.9 |
| 175 | 135.6 | 138.8 | 119.1 | 121.2 | 80.6 | 82.8 | 63.9 | 65.9 |
| 180 | 137.7 | 140.9 | 119.2 | 122.1 | 81.1 | 83.4 | 63.8 | 65.8 |
| 185 | 139.8 | 143.0 | 120.3 | 123.0 | 81.7 | 84.1 | 63.8 | 65.8 |
| Girls | | | | | | | | |
| 120 | 118.5 | 121.1 | 105.7 | 109.0 | 79.7 | 81.8 | 64.0 | 66.4 |
| 125 | 119.5 | 122.1 | 106.4 | 109.8 | 79.7 | 81.8 | 63.8 | 66.2 |
| 130 | 120.4 | 123.1 | 107.2 | 110.6 | 79.7 | 81.8 | 63.5 | 66.0 |
| 135 | 121.4 | 124.1 | 107.9 | 111.3 | 79.7 | 81.8 | 63.4 | 65.8 |
| 140 | 122.3 | 125.1 | 108.4 | 111.9 | 79.8 | 81.8 | 63.2 | 65.7 |
| 145 | 123.4 | 126.3 | 109.1 | 112.5 | 79.8 | 81.9 | 63.0 | 65.6 |
| 150 | 124.6 | 127.5 | 109.9 | 113.1 | 79.9 | 81.9 | 63.0 | 65.5 |
| 155 | 125.7 | 128.5 | 110.6 | 113.8 | 79.9 | 81.9 | 62.9 | 65.5 |
| 160 | 126.6 | 129.3 | 111.1 | 114.0 | 79.9 | 81.9 | 62.8 | 65.4 |
| 165 | 127.2 | 129.8 | 111.2 | 114.0 | 79.9 | 81.9 | 62.7 | 65.3 |
| 170 | 127.5 | 130.0 | 111.2 | 114.0 | 79.9 | 81.8 | 62.5 | 65.0 |
| 175 | 127.6 | 129.9 | 111.2 | 114.0 | 79.8 | 81.7 | 62.3 | 64.7 |

Tablas de Valores de MAPA en Po. por talla para niños

| 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 |

2016 European Society of Hypertension guidelines for the management of high blood pressure in children and adolescents . Lurbe et al.

Tablas de Valores de MAPA en Po. por talla para niñas

| 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 |

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Definición de HTA por MAPA

Table 2. Suggested Schema for Staging of Ambulatory BP Levels in Children

| Classification | Clinic BP* | Mean Ambulatory SBP† | SBP Load, % ^{70,75} |
|------------------------------------------------------------------|------------------|----------------------|------------------------------|
| Normal BP | <95th percentile | <95th percentile | <25 |
| WCH | >95th percentile | <95th percentile | <25 |
| Masked hypertension | <95th percentile | >95th percentile | >25 |
| Prehypertension | >95th percentile | <95th percentile | 25–50 |
| Ambulatory hypertension | >95th percentile | >95th percentile | 25–50 |
| Severe ambulatory hypertension (at risk for end-organ damage) | >95th percentile | >95th percentile | >50 |

Monitoreo de Presión arterial domiciliaria (MDPA)

- Debe contemplar 2 tomas a la mañana y 2 tomas por la noche descartando el 1º día x 7 días.
- No tiene hasta el momento una gran difusión dentro de la pediatría.
- La sensibilidad conjuntamente con la P.A. de consultorio es del 81%.
- Tiene mayor valor pronostico que la P.A. de consultorio y no da información de la P.A. nocturna.
- Los aparatos deberán ser oscilométricos convalidados.

Tabla de monitoreo domiciliario de la presión arterial (MDPA)

| Talla (cm) | Niños | | | Niñas | | |
|------------|----------|--------|-----------------|----------|--------|-----------------|
| | <i>N</i> | 50 | 95 ^a | <i>N</i> | 50 | 95 ^a |
| 120–129 | 23 | 105/64 | 119/76 | 36 | 101/64 | 119/74 |
| 130–139 | 51 | 108/64 | 121/77 | 51 | 103/64 | 120/76 |
| 140–149 | 39 | 110/65 | 125/77 | 61 | 105/65 | 122/77 |
| 150–159 | 41 | 112/65 | 126/78 | 71 | 108/66 | 123/77 |
| 160–169 | 45 | 115/65 | 128/78 | 148 | 110/66 | 124/78 |
| 170–179 | 91 | 117/66 | 132/78 | 46 | 112/66 | 125/79 |
| 180–189 | 57 | 121/67 | 134/79 | 7 | 114/67 | 128/80 |

Stergiou GS y col. Home blood pressure normalcy in children and adolescents. J. Hypertens 2007;25:1375-1379

Hipertensión de Guardapolvo Blanco

En nuestra serie de pacientes fue de un 43%.

Coincide con otras publicaciones de 45% - 44% y 53%

En varias publicaciones van desde 16% al 56%

Hipertensión Arterial Oculta

Las publicaciones hablan de un 5,7 % de un grupo de 592 pacientes jóvenes.

Lurbe E, et al. Hypertension. 2005;45:493-498.

Otro estudio de 85 pacientes fue de 9,4%.

Stabuoli S., et al. Pediatr Nephrol. 2005;20:1151-1155

Nosotros encontramos un 13,2% de HTO y un 7,8 % pre-HTA , mientras que el 60,5 % tuvo alteración del ritmo circadiano. El predominio fue de presión diastólica.

Estudio no publicado de prevalencia de HTO en una población de niños normotensos con F.R. arrojó un 9,6%.

Pompozzi L y col. Reunión Anual CAHTA 2016. Premio Braun Menéndez

HTA: Manejo Inicial

- ▶ Detectar o confirmar la presencia de HTA.
 - medición de la P. A. en el consultorio
 - Auto monitorización domiciliaria de la P. A.
 - MAPA. (monitoreo ambulatorio de la P.A.)
- ▶ Establecer el riesgo cardiovascular global
 - Factores de Riesgo
 - Daño de órgano blanco
 - Condiciones clínicas asociadas
- ▶ Identificar posibles causas de HTA secundaria



Contents lists available at ScienceDirect

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journal homepage: www.elsevier.com/locate/atherosclerosis



Percentiles for central blood pressure and pulse wave velocity in children and adolescents recorded with an oscillometric device

Julia Elmenhorst ^{a,*}, Martin Hulpke-Wette ^b, Christiane Barta ^a, Robert Dalla Pozza ^c,
Stephan Springer ^d, Renate Oberhoffer ^a

^a Institute of Preventive Pediatrics, Department of Sport and Health Sciences, Technische Universität, München, Germany

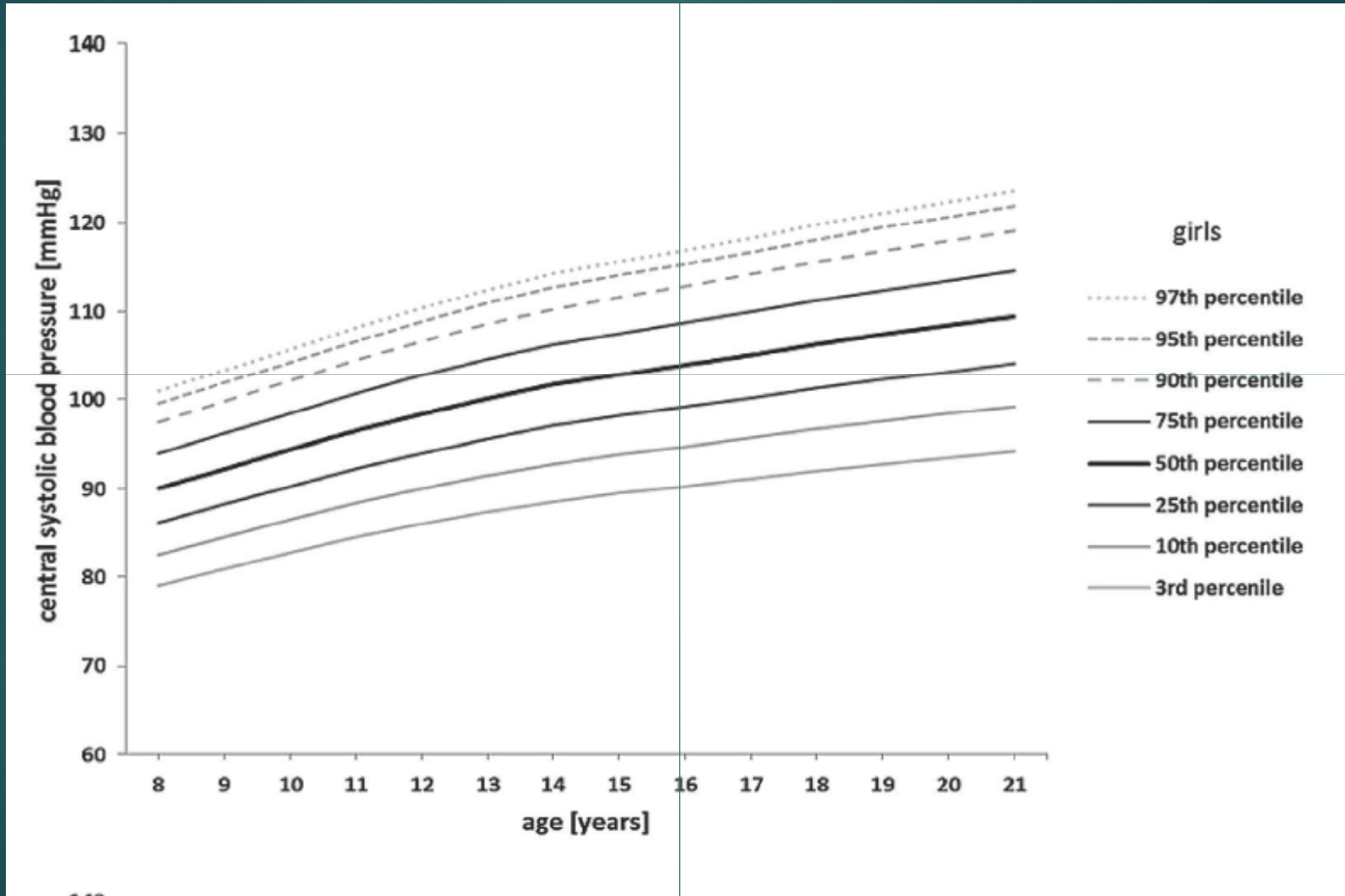
^b Medical Practice for Pediatric Cardiology Göttingen, Germany

^c Großhadern/Dr. von Hauner'sches Kinderspital, Ludwigs-Maximilians-Universität, München, Germany

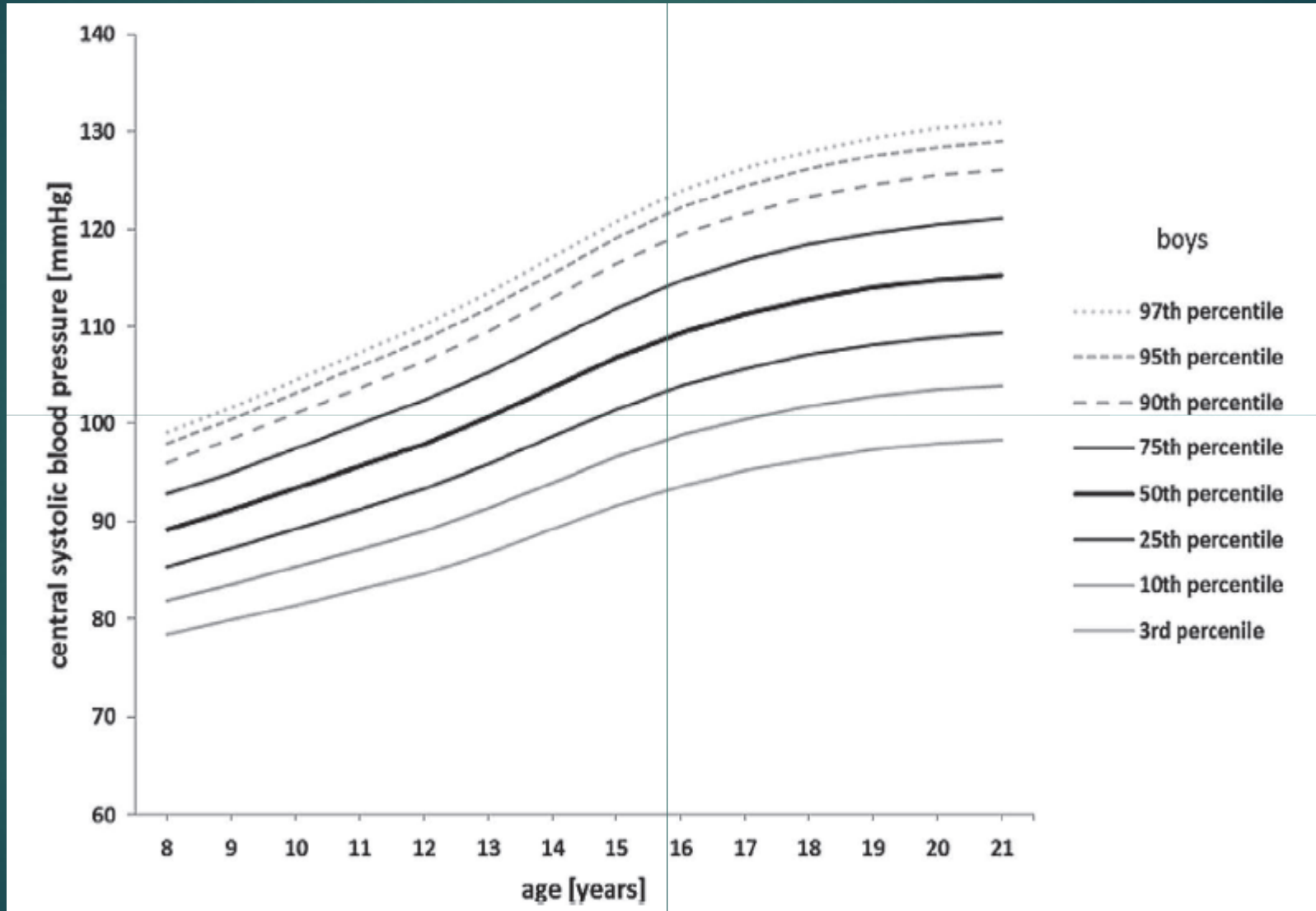
^d Klinik Hochried der Katholischen Jugendfürsorge Augsburg, Murnau, Germany



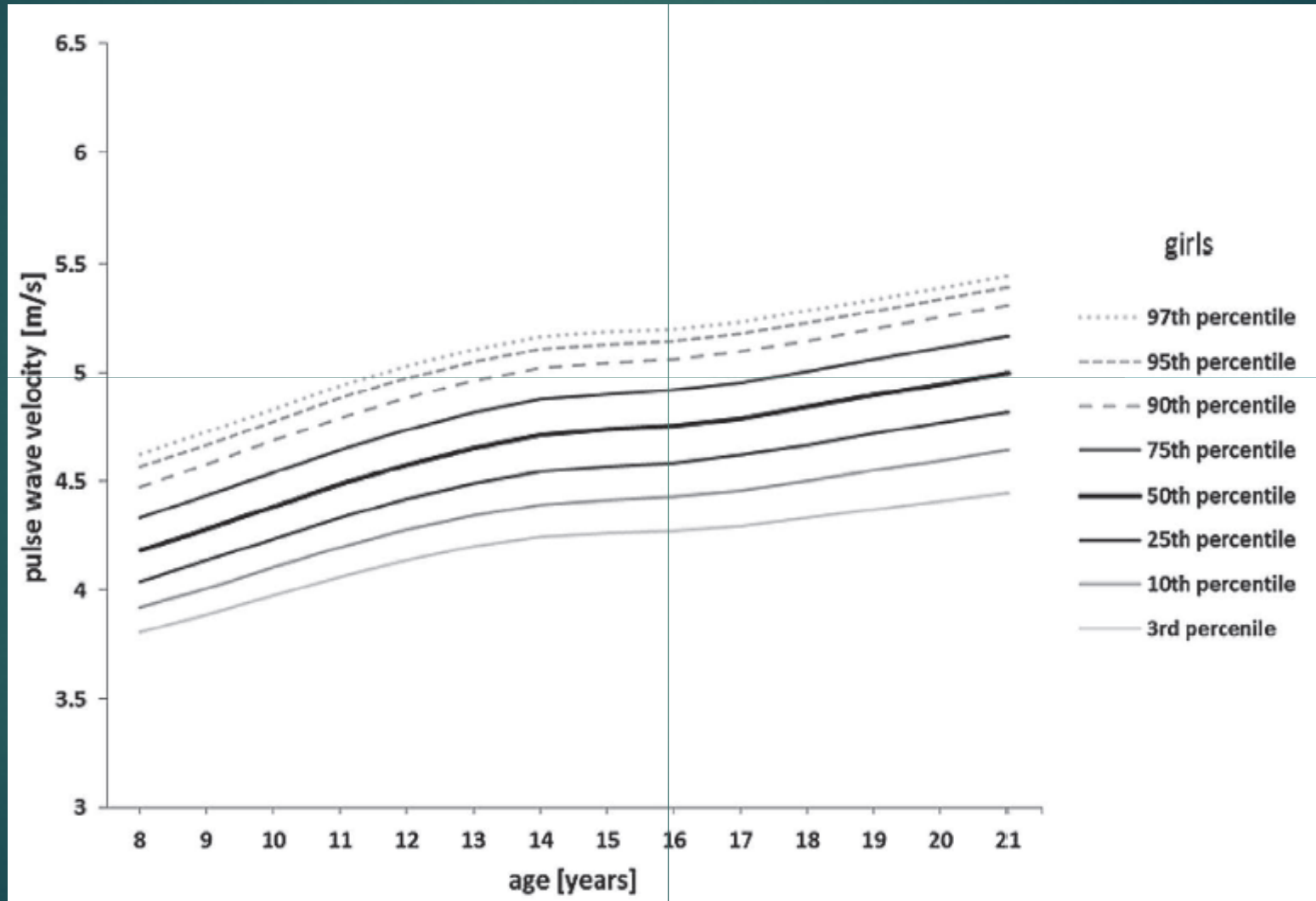
Percentilos de Presión Aortica Central Niñas



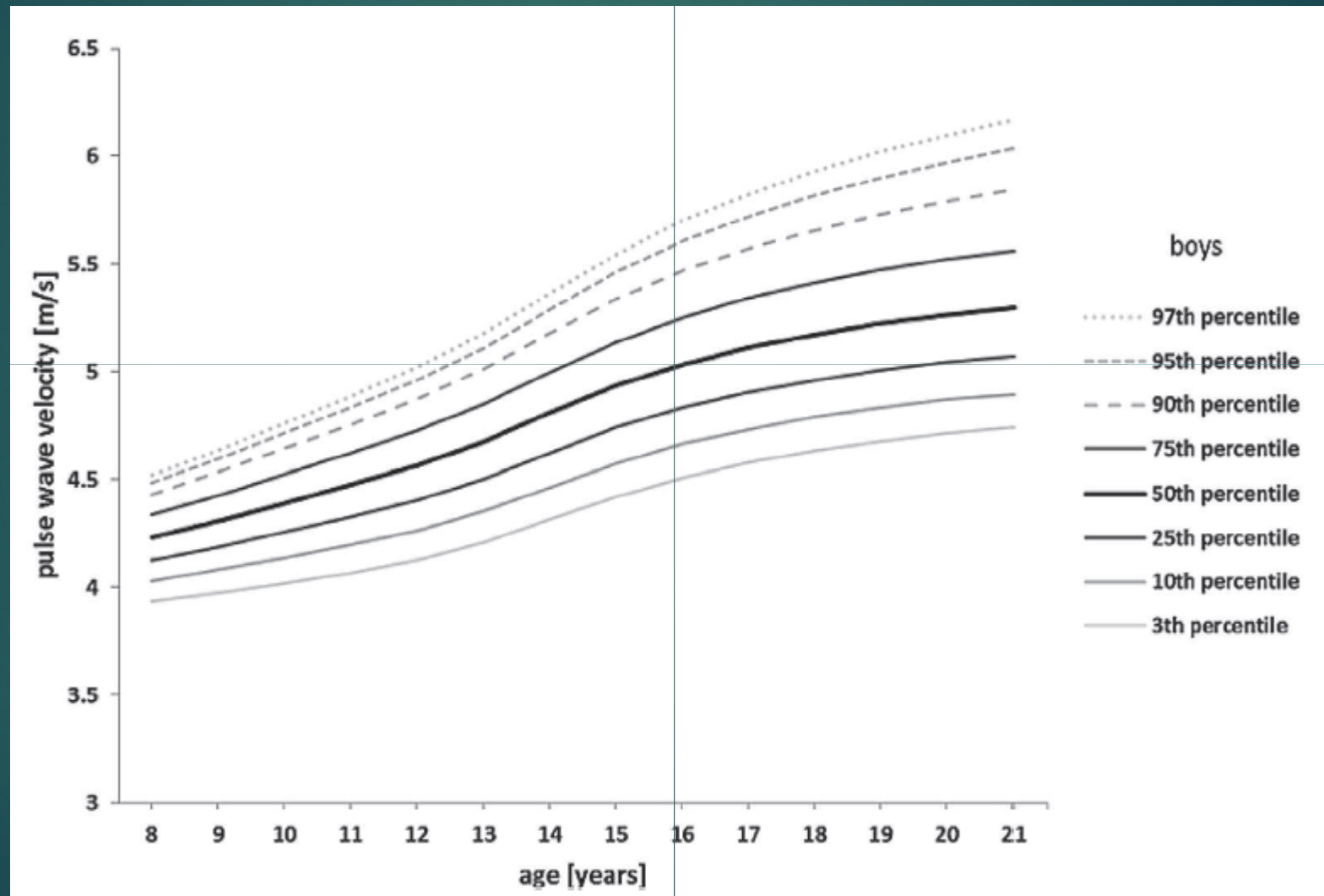
Percentilos de Presión Aortica Central Niños

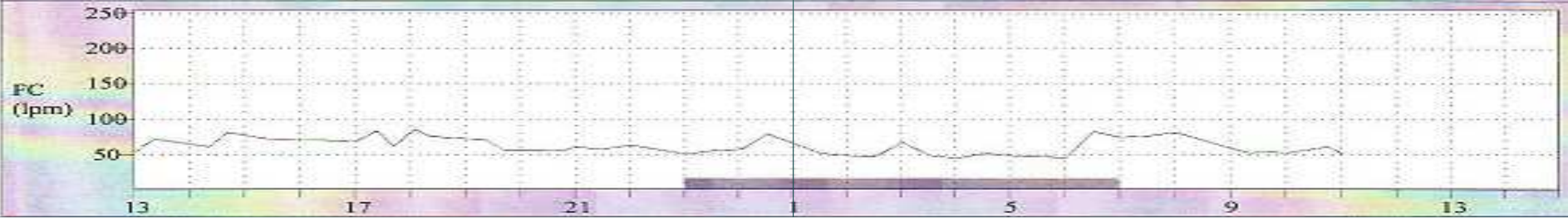
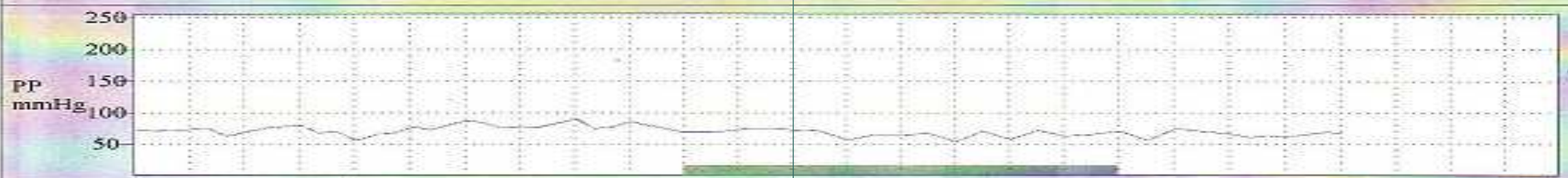
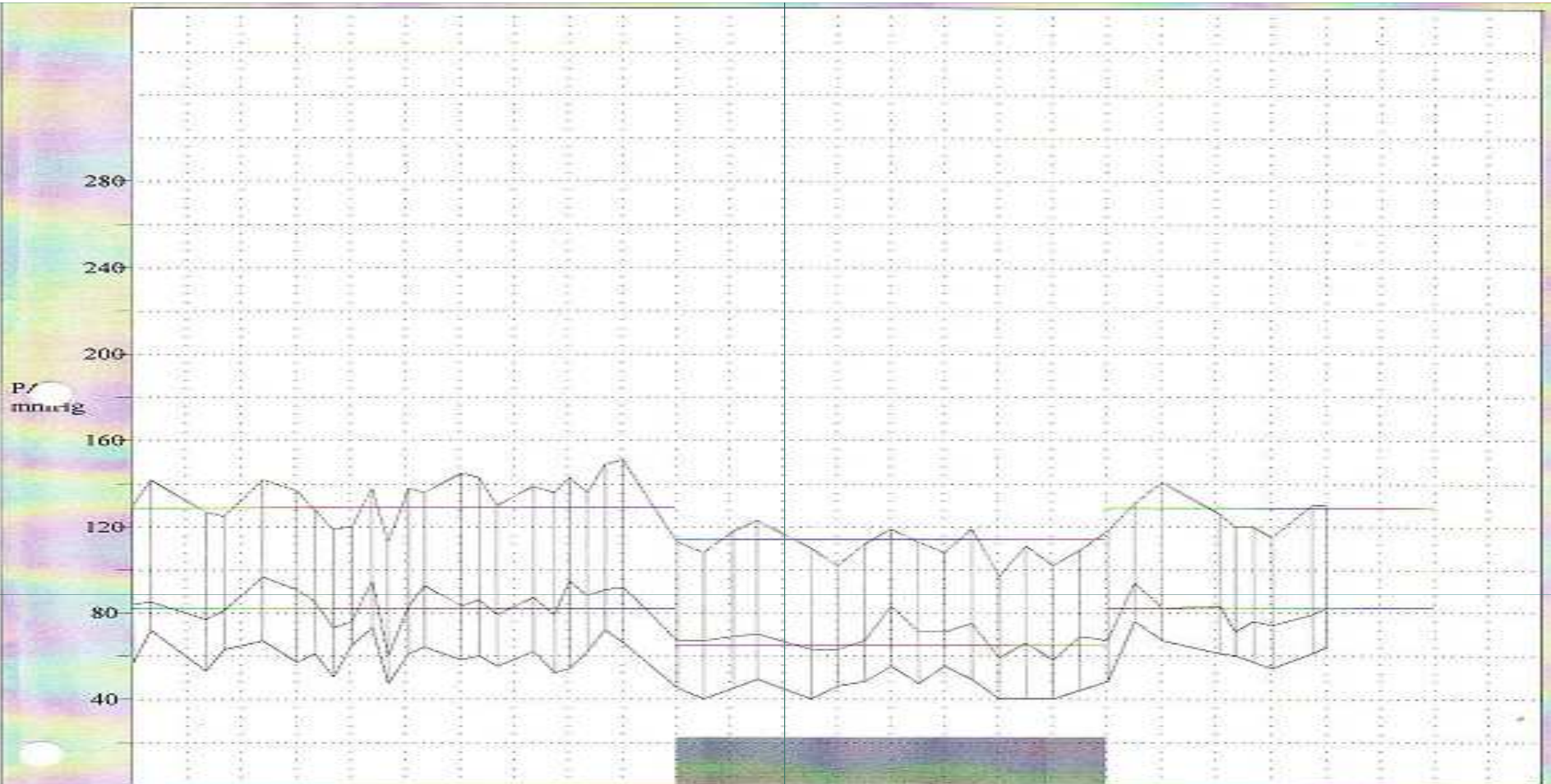


Percentilos de Velocidad Onda del Pulso Niñas

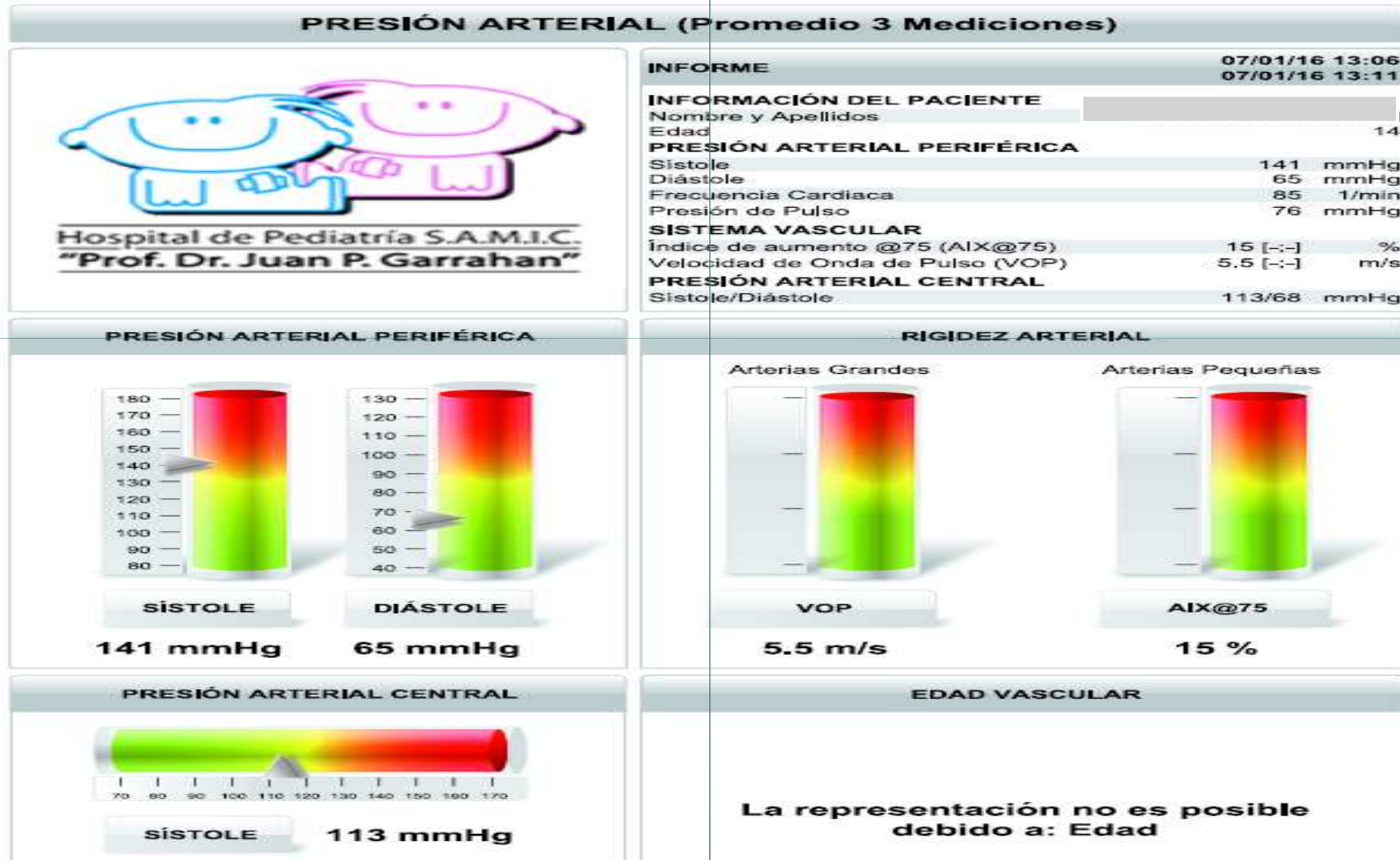


Percentilos de Velocidad Onda del Pulso Niños





Medición de Presión Aortica Central y VOP



Los resultados pueden fluctuar según su tensión arterial o su situación arterial.

Medición de Presión Aortica Central y VOP

PRESIÓN ARTERIAL (Promedio 3 Mediciones)



Hospital de Pediatría S.A.M.I.C.
"Prof. Dr. Juan P. Garrahan"

INFORME

07/01/16 13:06

07/01/16 13:11

INFORMACIÓN DEL PACIENTE

Nombre y Apellidos

Edad

14

PRESIÓN ARTERIAL PERIFÉRICA

Sístole

141 mmHg

Diástole

65 mmHg

Frecuencia Cardíaca

85 1/min

Presión de Pulso

76 mmHg

SISTEMA VASCULAR

Índice de aumento @75 (AIX@75)

15 [-;-] %

Velocidad de Onda de Pulso (VOP)

5,5 [-;-] m/s

PRESIÓN ARTERIAL CENTRAL

Sístole/Diástole

113/68 mmHg

SÍSTOLE 113 mmHg

La representación no es posible
debido a: Edad

Los resultados pueden fluctuar según su tensión arterial o su situación arterial.

Edad Vascular: Envejecimiento Vascular Acelerado (EVA)

- ▶ Es la edad de las Arterias, este concepto puede ser mejor entendido por los pacientes en lugar de porcentaje de riesgo.
- ▶ Los cambios asociados a EVA se pueden evaluar mediante EIM, VOP, tobillo brazo y molecularmente por medio de la longitud de los Telómeros

Transmisión de las ondas de presión con la edad

Arterias elásticas: VOP normal (8 m/sec)

Diástole



- (1) Mantenimiento de la PAD
- (2) ↑ flujo coronario

Arterias rígidas: Alta VOP (12 m/sec)

Sístole



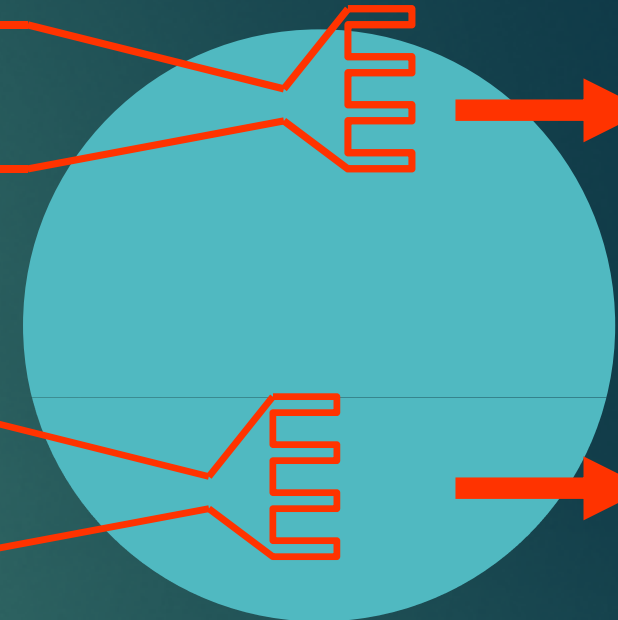
- (1) Exagerada caída de la PAD
- (2) Exagerado aumento de la PAS aórtica:

- Compromiso de la perfusión coronaria
- Aumento de postcarga y del consumo de O_2 miocárdico

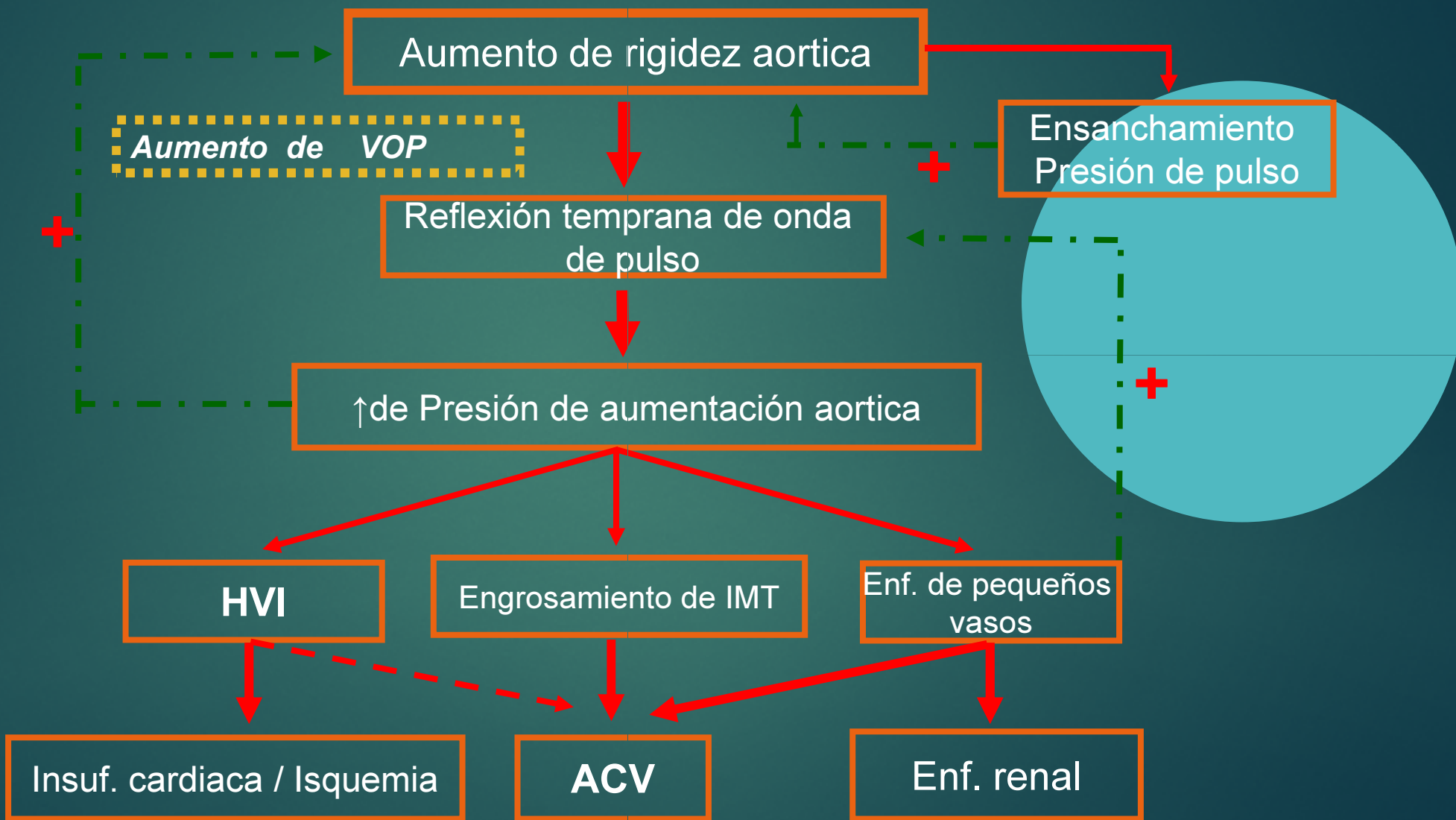


Isquemia subendocárdica
Hipertrofia VI

Adapted by S. Franklin from P. Klassen



CONSECUENCIAS HEMODINAMICAS DEL ENVEJECIMIENTO ARTERIAL





Muchas Gracias por su Atención