

c. male stature (cm, x: age of years) (standing height when  $x > 2$ )

L

birth – 2 years

$$-0.86237901x^3 + 4.53812947x^2 - 7.50252x + 4.03648$$

2 years -

$$0.144246023x^3 - 1.5016207x^2 + 4.576982x - 4.01652$$

M

birth – 0.5 years

$$36.64428985x^3 - 70.314876x^2 + 62.49206x + 48.82691$$

0.5years – 1 year

$$10.05000178x^3 - 30.423444x^2 + 42.54634x + 52.15119$$

1 year – 2 years

$$-0.37271873x^3 + 0.84471799x^2 + 11.27818x + 62.57391$$

2 years – 4 years

$$0.1549664x^3 - 2.3213928x^2 + 17.6104x + 57.03343$$

4 years -

$$0.213221148x^3 - 3.0204498x^2 + 20.40663x + 53.30513$$

S

birth – 1 year

$$-0.01454303x^3 + 0.04363205x^2 - 0.04203x + 0.045783$$

1 year -

$$-0.02908605x^3 + 0.08726409x^2 - 0.08406x + 0.091566$$

d. female stature (cm, x: age of years) (standing height when  $x > 2$ )

L

birth – 2 years

$$0.94235697x^3 - 4.2150009x^2 + 3.179012x + 3.33677$$

2 years -

$$-0.16093154x^3 + 2.40473019x^2 - 10.0605x + 12.16308$$

M

birth – 0.5 years

$$28.90643858x^3 - 59.099391x^2 + 57.02613x + 48.36156$$

0.5years – 1 year

$$10.51616692x^3 - 31.513983x^2 + 43.23343x + 50.66034$$

1 year – 2 years

$$-0.5012828x^3 + 1.53836608x^2 + 10.18108x + 61.67779$$

2 years – 4 years

$$0.194421304x^3 - 2.6358585x^2 + 18.52953x + 54.74616$$

4 years -

$$0.09771769x^3 - 1.4754152x^2 + 13.88775x + 60.93519$$

S

birth – 1 year

$$-0.01173878x^3 + 0.03499213x^2 - 0.0332x + 0.043758$$

1 year -

$$-0.02347756xy + 0.06998425x^2 - 0.0664x + 0.087516$$

e. male chest circumference (cm, x: age of years)

L

birth – 2 years

$$-0.66335692x^3+3.77168743x^2-7.41688x+3.165165$$

2 years -

$$0.067502706x^3-0.6134704x^2+1.353439x-2.68171$$

M

birth – 0.5 years

$$60.50440377x^3-96.857558x^2+57.61431x+31.73707$$

0.5years – 1 year

$$3.938149553x^3-12.008177x^2+15.18962x+38.80785$$

1 year – 2 years

$$-0.07017222x^3+0.01678824x^2+3.164657x+42.81617$$

2 years – 4 years

$$0.082164135x^3-0.8972299x^2+4.992694x+41.59748$$

4 years -

$$-0.01630585x^3+0.28440995x^2+0.266134x+47.89956$$

S

birth – 1 year

$$-0.00745475x^3+0.0247512x^2-0.032x+0.05743$$

1 year -

$$-0.01490951x^3+0.04950239x^2-0.064x+0.11486$$

f. female chest circumference (cm, x: age of years)

L

birth – 2 years

$$-0.8361848x^3+4.48880901x^2-7.65673x+3.105028$$

2 years -

$$0.075383962x^3-0.9806036x^2+3.28209x-4.18752$$

M

birth – 0.5 years

$$47.3120164-78.625149x^2+49.66641x+31.55879$$

0.5years – 1 year

$$5.199572085-15.456483x^2+18.08207x+36.82285$$

1 year – 2 years

$$-0.21143498+0.77653822x^2+1.849054x+42.23385$$

2 years – 4 years

$$0.118880213x^3-1.2053529x^2+5.812836x+39.59133$$

4 years -

$$-0.1225061x^3+1.69128288x^2-5.77371x+55.04006$$

S

birth - 1 year

$$-0.00432751x^3+0.0154248x^2-0.02155x+0.053836$$

1 year -

$$-0.00865502x^3+0.0308496x^2-0.04309x+0.107673$$

g. male head circumference (cm, x: age of years)

L

birth – 2 years

$$0.240834818x^3 - 0.8060979x^2 - 0.68522x + 3.575157$$

2 years –

$$-0.12102106x^3 + 1.36503741x^2 - 5.02749x + 6.470004$$

M

birth – 0.5 years

$$44.15700776x^3 - 69.56939x^2 + 43.36386x + 33.534$$

0.5years – 1 year

$$0.591948501x^3 - 4.2218014x^2 + 10.69007x + 38.97963$$

1 year – 2 years

$$0.73721167x^3 - 4.6575909x^2 + 11.12586x + 38.83437$$

2 years – 4 years

$$0.023799474x^3 - 0.3771177x^2 + 2.564911x + 44.54166$$

4 years –

$$0.017333546x^3 - 0.2995266x^2 + 2.254546x + 44.95548$$

S

birth – 1 year

$$-0.01498233x^3 + 0.04359653x^2 - 0.04022x + 0.041033$$

1 year –

$$-0.02996465x^3 + 0.08719305x^2 - 0.08044x + 0.082066$$

h. female head circumference (cm, x: age of years)

L

birth – 2 years

$$0.603159253x^3 - 2.6898935x^2 + 2.097169x + 3.163025$$

2 years –

$$-0.16867135x^3 + 1.94109006x^2 - 7.1648x + 9.33767$$

M

birth – 0.5 years

$$37.88225532x^3 - 60.20043x^2 + 38.8188x + 33.06161$$

0.5years – 1 year

$$0.55107402x^3 - 4.2036576x^2 + 10.82042x + 37.72801$$

1 year – 2 years

$$0.799733596x^3 - 4.9496363x^2 + 11.5664x + 37.47935$$

2 years – 4 years

$$0.011513654x^3 - 0.2203167x^2 + 2.107758x + 43.78511$$

4 years –

$$-0.01249657x^3 + 0.06780601x^2 + 0.955267x + 45.321767$$

S

birth – 1 year

$$-0.01140595x^3 + 0.0337826x^2 - 0.03257x + 0.039349$$

1 year –

$$-0.0228119x^3 + 0.06756519x^2 - 0.06515x + 0.078697$$

### Ⅲ. 研究成果の刊行に関する一覧表

#### 雑誌

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Kato N, Takimoto H, Sudo N	The cubic functions for spline smoothed L, S and M values for BMI reference data of Japanese children	Clin Pediatr Endocrinol	20(2)	47-9	2011

#### 学会発表

発表者氏名	論文タイトル名	発表学会名	開催地	開催年月
田尻下怜子、瀧本秀美、佐田文宏、仁平光彦、下地祥隆、金子均、久保田俊郎	妊娠中の体重増加量と出生体重に関する検討	第64回日本産科婦人科学会学術講演会	神戸	2012年4月15日
瀧本秀美、田尻下怜子、久保田俊郎、加藤則子、横山徹爾	非肥満女性における妊娠中の適正体重増加量区分についての検討	第64回日本産科婦人科学会学術講演会	神戸	2012年4月15日

