Supplemental Appendix P
Clean Analysis

DRI energy - clean analysis

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1 Notes

- See DRI energy data prep and preliminary descriptive statistics for data notes.

- BMR Schofield was calculated using the formulas with Weight and Height.

Data were cleaned by the following steps:

- For infants (0 to 11.9 mo) and children 1-3 years:

    - If PAL (observed) is <1 or >2.5, then that child is removed from the database
    - If PAL is unobserved but PAL estimated from Schofield is <1 or >2.5, then that child is removed from the database
- For children (4+) & adults:

    - If observed PAL >2.5, then that person is removed from the database
    - If observed PAL < 1, then make PAL missing, and it will be filled with multiple imputation (MI)
    - If PAL is not observed, but PAL estimated from Schofield is >2.5, then that person is removed from the database
    - If PAL is not observed, but PAL estimated from Schofield is <1, the person remains in the database and PAL is left missing to be imputed.

PAL notes

For 3.0=<Age<9.0: (*Just for graphic purposes Infants use this PALCAT*)

- Sedentary PAL ≥ 1.0 < 1.31
- Low Active PAL ≥ 1.31 < 1.44
- Active PAL ≥ 1.44 < 1.59
- Very Active PAL ≥ 1.59 < 2.5

For 9.0=<Age<14.0:

- Sedentary PAL ≥ 1.0 < 1.44
- Low Active PAL ≥ 1.44 < 1.59
- Active PAL ≥ 1.59 < 1.77
- Very Active PAL ≥ 1.77 < 2.5

For 14.0=<Age<19.0:

- Sedentary PAL ≥ 1.0 < 1.56
- Low Active PAL ≥ 1.56 < 1.73
- Active PAL ≥ 1.73 < 1.92
- Very Active PAL ≥ 1.92 < 2.5

For Age>=19: (*Note that these are based on percentiles of 19 to 70.99, but 71+ use these too*)

- Sedentary PAL ≥ 1.0 < 1.53
- Low Active PAL ≥ 1.53 < 1.68
- Active PAL ≥ 1.68 < 1.85
- Very Active PAL ≥ 1.85 < 2.5

Age groups

Ages were grouped according to the "Life Stage" document provided by the Workgroup

- For age groups the ages included are:
    - Infants 0 to 11.9999 months old
    - Children 1.0 to 8.9999 years old
    - Teenagers 9.0 to 18.9999 years old
    - Adults 19.0+ years old
- For "Life Stage" Ages:

- "0-6 months" includes infants 0 to 6.999 months old
- "7-11 months" includes infants 7.0 to 11.9999 months old
- "1-3 years" includes children 1.0 to 3.9999 years old
- etc.

Percentile groups

BMI for IAEA & IOM infants, children and teens

- For infants (0-11 month) and Children (12-24 mo): Weight Percentiles were calculated by IU based on *Girls/Boys percentiles: expanded-tables (Weight-for-length)* from WHO, https://www.who.int/tools/child-growth-standards/standards/weight-for-length-height (https://www.who.int/tools/child-growth-standards/standards/weight-for-length-height).
- For Children/Teens 2 – 18: BMI Percentiles were calculated by IU based on sex, age growth charts from CDC https://www.cdc.gov/growthcharts/percentile_data_files.htm (https://www.cdc.gov/growthcharts/percentile_data_files.htm).

2 Data

2.1 Sample sizes

	CNRC	IAEA	IOM	SOLNAS	TOTAL
Infants	0	378	177	0	555
Children	0	432	689	0	1121
Teenagers	0	425	279	0	704
Adults	0	4309	767	380	5456
Preg/Lac/NPNL	220	173	371	0	764
TOTAL	220	5717	2283	380	8600

2.2 Studies from IAEA

These are the studies remaining in the IAEA dataset after exclusions described in text. Stud_n represents the Study number, and n is the sample size per study.

First author	Year	Country	Database Rows	stud_n	n
Arab	2011	US	2733-3040	78	307
Blaak	1992	Netherlands	265-274	18	10
Blanc	2004	US	1655-2035 Intermingled with Cooper	73	7
Bonomi	2010	Netherlands	1234-1263	62	30
Bornhorst	2014	Spain/Belgium	1452-1543	68	92
Brage	2015	UK	7648-7697	129	45
Buchowski	Unpublished	US	5072-5174	99	4
Buchowski	Unpublished	US	5072-5174	100	99
Burger	2013	US	2573-2732	77	159
Butte	2014	US	5175-5275	101	107

3 Descriptive

3.1 Descriptive Stats by Age, Sex

3.1.1 Infants

0-11 months old

	F (N=320)	M (N=235)	Overall (N=555)
Age (years)			

	F (N=320)	M (N=235)	Overall (N=555)
N	320	235	555
Mean (SD)	0.40 (0.25)	0.38 (0.26)	0.39 (0.26)
Median [Min, Max]	0.29 [0.03, 1.00]	0.27 [0.02, 0.99]	0.28 [0.02, 1.00]
Life_Stage			
0-6 months	251 (78.4%)	192 (81.7%)	443 (79.8%)
7-11 months	69 (21.6%)	43 (18.3%)	112 (20.2%)
Sex			
F	320 (100%)	0 (0%)	320 (57.7%)
M	0 (0%)	235 (100%)	235 (42.3%)
Ethnicity			
African	0 (0%)	0 (0%)	0 (0%)
African American	0 (0%)	1 (0.426%)	1 (0.180%)
Asian	2 (0.625%)	1 (0.426%)	3 (0.541%)
Caucasian	104 (32.5%)	66 (28.1%)	170 (30.6%)
Hispanic	16 (5.00%)	13 (5.53%)	29 (5.23%)
Other	9 (2.81%)	13 (5.53%)	22 (3.96%)
Unknown or data not available	189 (59.1%)	141 (60.0%)	330 (59.5%)
Height (cm)			
N	319	235	554
Mean (SD)	63.26 (6.57)	63.49 (6.83)	63.36 (6.68)
Median [Min, Max]	62.70 [46.40, 80.00]	63.13 [47.30, 78.80]	62.90 [46.40, 80.00]
Missing	1 (0.3%)	0 (0%)	1 (0.2%)
Weight (kg)			
N	320	235	555
Mean (SD)	6.67 (1.79)	6.86 (1.89)	6.75 (1.83)
Median [Min, Max]	6.52 [2.36, 11.30]	6.81 [2.70, 12.60]	6.68 [2.36, 12.60]
FFM (kg)			
N	207	169	376
Mean (SD)	4.54 (1.09)	4.88 (1.18)	4.69 (1.14)
Median [Min, Max]	4.38 [1.80, 7.94]	4.85 [2.28, 8.74]	4.61 [1.80, 8.74]
Missing	113 (35.3%)	66 (28.1%)	179 (32.3%)
FM (kg)			
N	206	169	375
Mean (SD)	1.69 (0.78)	1.64 (0.84)	1.67 (0.81)
Median [Min, Max]	1.59 [0.12, 4.28]	1.55 [0.07, 3.86]	1.58 [0.07, 4.28]
Missing	114 (35.6%)	66 (28.1%)	180 (32.4%)
FM_pct			
N	206	169	375
Mean (SD)	26.11 (6.81)	23.84 (7.53)	25.09 (7.22)
Median [Min, Max]	26.82 [3.69, 50.61]	24.32 [2.06, 41.65]	25.76 [2.06, 50.61]
Missing	114 (35.6%)	66 (28.1%)	180 (32.4%)
Percentile			
N	319	235	554
Mean (SD)	51.52 (27.04)	50.70 (29.26)	51.17 (27.98)
Median [Min, Max]	51.78 [0.73, 99.38]	50.17 [0.09, 99.90]	51.36 [0.09, 99.90]
Missing	1 (0.3%)	0 (0%)	1 (0.2%)
Percentile category			
<3th	5 (1.57%)	8 (3.40%)	13 (2.35%)
3th to 97th	307 (96.2%)	220 (93.6%)	527 (95.1%)
>97th	7 (2.19%)	7 (2.98%)	14 (2.53%)
Missing	1 (0.3%)	0 (0%)	1 (0.2%)
TEE kcal/d			
N	320	235	555
Mean (SD)	490.86 (156.27)	521.21 (188.63)	503.71 (171.22)
Median [Min, Max]	476.17 [188.31, 961.00]	510.00 [151.33, 1187.32]	486.00 [151.33, 1187.32]
BEE kcal/d			

	F (N=320)	M (N=235)	Overall (N=555)
N	104	60	164
Mean (SD)	448.78 (90.22)	471.93 (96.34)	457.25 (92.89)
Median [Min, Max]	445.00 [263.00, 649.00]	472.00 [286.00, 649.00]	450.00 [263.00, 649.00]
Missing	216 (67.5%)	175 (74.5%)	391 (70.5%)
PAL			
N	104	60	164
Mean (SD)	1.28 (0.20)	1.31 (0.20)	1.29 (0.20)
Median [Min, Max]	1.27 [1.00, 1.88]	1.30 [1.01, 1.80]	1.27 [1.00, 1.88]
Missing	216 (67.5%)	175 (74.5%)	391 (70.5%)
PALCAT			
PAL<1	0 (0%)	0 (0%)	0 (0%)
S	65 (62.5%)	32 (53.3%)	97 (59.1%)
LA	21 (20.2%)	13 (21.7%)	34 (20.7%)
A	11 (10.6%)	9 (15.0%)	20 (12.2%)
VA	7 (6.73%)	6 (10.0%)	13 (7.93%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	216 (67.5%)	175 (74.5%)	391 (70.5%)
BMR_kcal_Schofield			
N	319	235	554
Mean (SD)	342.39 (95.22)	347.03 (103.94)	344.36 (98.94)
Median [Min, Max]	333.04 [99.67, 577.34]	341.54 [100.69, 579.94]	337.20 [99.67, 579.94]
Missing	1 (0.3%)	0 (0%)	1 (0.2%)
PAL_obs_est			
N	319	235	554
Mean (SD)	1.39 (0.24)	1.45 (0.27)	1.42 (0.26)
Median [Min, Max]	1.36 [1.00, 2.41]	1.39 [1.01, 2.40]	1.38 [1.00, 2.41]
Missing	1 (0.3%)	0 (0%)	1 (0.2%)
PALCAT_obs_est			
PAL<1	0 (0%)	0 (0%)	0 (0%)
S	134 (42.0%)	79 (33.6%)	213 (38.4%)
LA	74 (23.2%)	49 (20.9%)	123 (22.2%)
A	55 (17.2%)	39 (16.6%)	94 (17.0%)
VA	56 (17.6%)	68 (28.9%)	124 (22.4%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	1 (0.3%)	0 (0%)	1 (0.2%)

3.1.2 Children

1-8 years old

Percentile groups

- For infants (0-11 month) and Children (12-24 mo): Weight Percentiles were calculated by IU based on *Girls/Boys percentiles: expanded-tables (Weight-for-length)* from WHO, https://www.who.int/tools/child-growth-standards/standards/weight-for-length-height (https://www.who.int/tools/child-growth-standards/standards/weight-for-length-height).
- For Children/Teens 2 – 18: BMI Percentiles were calculated by IU based on sex, age growth charts from CDC https://www.cdc.gov/growthcharts/percentile_data_files.htm (https://www.cdc.gov/growthcharts/percentile_data_files.htm).

	F (N=634)	M (N=487)	Overall (N=1121)
Age (years)			
N	634	487	1121
Mean (SD)	5.26 (2.26)	4.78 (1.81)	5.05 (2.09)
Median [Min, Max]	5.00 [1.00, 8.90]	5.00 [1.00, 8.50]	5.00 [1.00, 8.90]
Life_Stage			
1-3 years	139 (21.9%)	104 (21.4%)	243 (21.7%)
4-8 years	495 (78.1%)	383 (78.6%)	878 (78.3%)
Sex			
F	634 (100%)	0 (0%)	634 (56.6%)
M	0 (0%)	487 (100%)	487 (43.4%)

	F (N=634)	M (N=487)	Overall (N=1121)
Ethnicity			
African	0 (0%)	0 (0%)	0 (0%)
African American	15 (2.37%)	32 (6.57%)	47 (4.19%)
Asian	4 (0.631%)	0 (0%)	4 (0.357%)
Caucasian	100 (15.8%)	88 (18.1%)	188 (16.8%)
Hispanic	11 (1.74%)	23 (4.72%)	34 (3.03%)
Other	1 (0.158%)	2 (0.411%)	3 (0.268%)
Unknown or data not available	503 (79.3%)	342 (70.2%)	845 (75.4%)
Height (cm)			
N	627	473	1100
Mean (SD)	111.16 (16.96)	109.36 (15.04)	110.38 (16.18)
Median [Min, Max]	114.00 [71.00, 155.00]	112.00 [72.00, 153.00]	113.00 [71.00, 155.00]
Missing	7 (1.1%)	14 (2.9%)	21 (1.9%)
Weight (kg)			
N	634	487	1121
Mean (SD)	21.57 (8.38)	20.92 (7.46)	21.29 (7.99)
Median [Min, Max]	20.60 [8.20, 66.00]	20.00 [8.40, 68.40]	20.30 [8.20, 68.40]
FFM (kg)			
N	208	223	431
Mean (SD)	13.54 (3.92)	14.83 (4.27)	14.20 (4.15)
Median [Min, Max]	13.42 [5.40, 31.43]	14.65 [6.47, 29.17]	14.09 [5.40, 31.43]
Missing	426 (67.2%)	264 (54.2%)	690 (61.6%)
FM (kg)			
N	208	223	431
Mean (SD)	5.59 (3.47)	5.31 (3.37)	5.44 (3.42)
Median [Min, Max]	4.73 [1.01, 24.57]	4.32 [1.22, 20.33]	4.62 [1.01, 24.57]
Missing	426 (67.2%)	264 (54.2%)	690 (61.6%)
FM_pct			
N	208	223	431
Mean (SD)	27.76 (6.77)	25.12 (6.84)	26.40 (6.92)
Median [Min, Max]	26.47 [10.48, 58.34]	23.95 [10.93, 50.31]	25.24 [10.48, 58.34]
Missing	426 (67.2%)	264 (54.2%)	690 (61.6%)
Percentile			
N	627	473	1100
Mean (SD)	60.19 (27.41)	60.52 (29.05)	60.33 (28.11)
Median [Min, Max]	61.45 [2.79, 98.45]	62.14 [2.88, 97.40]	61.56 [2.79, 98.45]
Missing	7 (1.1%)	14 (2.9%)	21 (1.9%)
Percentile category			
<5th	9 (1.44%)	8 (1.69%)	17 (1.55%)
5th to 85th	457 (72.9%)	328 (69.3%)	785 (71.4%)
85th to 95th	74 (11.8%)	52 (11.0%)	126 (11.5%)
>95th	87 (13.9%)	85 (18.0%)	172 (15.6%)
Missing	7 (1.1%)	14 (2.9%)	21 (1.9%)
TEE kcal/d			
N	634	487	1121
Mean (SD)	1366.99 (372.06)	1423.48 (366.35)	1391.53 (370.49)
Median [Min, Max]	1345.22 [517.00, 2699.00]	1421.00 [560.14, 2975.00]	1379.00 [517.00, 2975.00]
BEE kcal/d			
N	294	193	487
Mean (SD)	940.98 (200.41)	1003.39 (207.33)	965.71 (205.26)
Median [Min, Max]	970.00 [456.00, 1490.00]	1030.00 [530.00, 1470.00]	989.00 [456.00, 1490.00]
Missing	340 (53.6%)	294 (60.4%)	634 (56.6%)
PAL			
N	294	193	487
Mean (SD)	1.46 (0.23)	1.40 (0.17)	1.44 (0.21)
Median [Min, Max]	1.44 [1.02, 2.15]	1.38 [1.02, 1.91]	1.41 [1.02, 2.15]

	F (N=634)	M (N=487)	Overall (N=1121)
Missing	340 (53.6%)	294 (60.4%)	634 (56.6%)
PALCAT			
PAL<1	0 (0%)	0 (0%)	0 (0%)
S	73 (24.8%)	54 (28.0%)	127 (26.1%)
LA	74 (25.2%)	71 (36.8%)	145 (29.8%)
A	72 (24.5%)	43 (22.3%)	115 (23.6%)
VA	75 (25.5%)	25 (13.0%)	100 (20.5%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	340 (53.6%)	294 (60.4%)	634 (56.6%)
BMR_kcal_Schofield			
N	627	473	1100
Mean (SD)	901.25 (189.92)	945.78 (192.43)	920.40 (192.19)
Median [Min, Max]	907.38 [456.00, 1733.87]	947.55 [476.41, 1954.74]	929.20 [456.00, 1954.74]
Missing	7 (1.1%)	14 (2.9%)	21 (1.9%)
PAL_obs_est			
N	629	475	1104
Mean (SD)	1.47 (0.21)	1.45 (0.20)	1.46 (0.21)
Median [Min, Max]	1.45 [1.02, 2.43]	1.44 [0.99, 2.29]	1.45 [0.99, 2.43]
Missing	5 (0.8%)	12 (2.5%)	17 (1.5%)
PALCAT_obs_est			
PAL<1	0 (0%)	1 (0.211%)	1 (0.0906%)
S	134 (21.3%)	106 (22.3%)	240 (21.7%)
LA	163 (25.9%)	133 (28.0%)	296 (26.8%)
A	175 (27.8%)	125 (26.3%)	300 (27.2%)
VA	157 (25.0%)	110 (23.2%)	267 (24.2%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	5 (0.8%)	12 (2.5%)	17 (1.5%)

3.1.3 Teenagers

9-18 years old

	F (N=434)	M (N=270)	Overall (N=704)
Age (years)			
N	434	270	704
Mean (SD)	13.82 (3.06)	13.48 (3.13)	13.69 (3.09)
Median [Min, Max]	14.35 [9.00, 18.80]	14.00 [9.00, 18.90]	14.01 [9.00, 18.90]
Life_Stage			
9-13 years	184 (42.4%)	120 (44.4%)	304 (43.2%)
14-18 years	250 (57.6%)	150 (55.6%)	400 (56.8%)
Sex			
F	434 (100%)	0 (0%)	434 (61.6%)
M	0 (0%)	270 (100%)	270 (38.4%)
Ethnicity			
African	1 (0.230%)	1 (0.370%)	2 (0.284%)
African American	22 (5.07%)	16 (5.93%)	38 (5.40%)
Asian	2 (0.461%)	1 (0.370%)	3 (0.426%)
Caucasian	143 (32.9%)	134 (49.6%)	277 (39.3%)
Hispanic	0 (0%)	1 (0.370%)	1 (0.142%)
Other	11 (2.53%)	4 (1.48%)	15 (2.13%)
Unknown or data not available	255 (58.8%)	113 (41.9%)	368 (52.3%)
Height (cm)			
N	430	266	696
Mean (SD)	156.33 (12.79)	163.18 (18.21)	158.95 (15.44)
Median [Min, Max]	159.00 [116.00, 183.70]	168.25 [125.00, 201.00]	160.15 [116.00, 201.00]
Missing	4 (0.9%)	4 (1.5%)	8 (1.1%)
Weight (kg)			

	F (N=434)	M (N=270)	Overall (N=704)
N	434	269	703
Mean (SD)	54.17 (16.39)	58.38 (17.66)	55.78 (17.00)
Median [Min, Max]	54.17 [22.20, 133.20]	59.65 [23.50, 125.70]	56.15 [22.20, 133.20]
Missing	0 (0%)	1 (0.4%)	1 (0.1%)
FFM (kg)			
N	229	194	423
Mean (SD)	39.43 (7.96)	47.29 (13.41)	43.03 (11.48)
Median [Min, Max]	39.49 [14.65, 67.15]	49.09 [19.26, 72.52]	42.16 [14.65, 72.52]
Missing	205 (47.2%)	76 (28.1%)	281 (39.9%)
FM (kg)			
N	229	194	423
Mean (SD)	20.66 (9.93)	14.98 (8.95)	18.05 (9.90)
Median [Min, Max]	17.95 [6.05, 66.05]	12.95 [3.08, 54.33]	15.98 [3.08, 66.05]
Missing	205 (47.2%)	76 (28.1%)	281 (39.9%)
FM_pct			
N	229	194	423
Mean (SD)	33.25 (7.36)	23.60 (9.55)	28.82 (9.70)
Median [Min, Max]	32.25 [16.37, 59.57]	21.20 [9.85, 53.92]	28.45 [9.85, 59.57]
Missing	205 (47.2%)	76 (28.1%)	281 (39.9%)
Percentile			
N	430	266	696
Mean (SD)	63.84 (25.08)	63.43 (27.52)	63.68 (26.02)
Median [Min, Max]	66.40 [5.09, 97.60]	66.04 [3.95, 97.57]	66.40 [3.95, 97.60]
Missing	4 (0.9%)	4 (1.5%)	8 (1.1%)
Percentile category			
<5th	0 (0%)	3 (1.13%)	3 (0.431%)
5th to 85th	316 (73.5%)	183 (68.8%)	499 (71.7%)
85th to 95th	57 (13.3%)	28 (10.5%)	85 (12.2%)
>95th	57 (13.3%)	52 (19.5%)	109 (15.7%)
Missing	4 (0.9%)	4 (1.5%)	8 (1.1%)
TEE kcal/d			
N	432	269	701
Mean (SD)	2271.28 (503.42)	2843.67 (744.40)	2490.93 (667.68)
Median [Min, Max]	2266.11 [1000.00, 4432.02]	2733.29 [1178.00, 5555.39]	2397.00 [1000.00, 5555.39]
Missing	2 (0.5%)	1 (0.4%)	3 (0.4%)
BEE kcal/d			
N	253	101	354
Mean (SD)	1361.81 (234.21)	1685.49 (380.03)	1454.16 (318.58)
Median [Min, Max]	1324.00 [881.00, 2218.00]	1629.00 [1025.00, 3010.00]	1401.62 [881.00, 3010.00]
Missing	181 (41.7%)	169 (62.6%)	350 (49.7%)
PAL			
N	253	101	354
Mean (SD)	1.71 (0.29)	1.75 (0.29)	1.72 (0.29)
Median [Min, Max]	1.69 [1.02, 2.47]	1.71 [1.03, 2.48]	1.70 [1.02, 2.48]
Missing	181 (41.7%)	169 (62.6%)	350 (49.7%)
PALCAT			
PAL<1	0 (0%)	0 (0%)	0 (0%)
S	55 (21.7%)	11 (10.9%)	66 (18.6%)
LA	59 (23.3%)	23 (22.8%)	82 (23.2%)
A	58 (22.9%)	33 (32.7%)	91 (25.7%)
VA	81 (32.0%)	34 (33.7%)	115 (32.5%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	181 (41.7%)	169 (62.6%)	350 (49.7%)
BMR_kcal_Schofield			
N	430	265	695
Mean (SD)	1380.58 (183.07)	1679.00 (300.60)	1494.36 (275.91)

	F (N=434)	M (N=270)	Overall (N=704)
Median [Min, Max]	1388.83 [942.38, 2196.50]	1700.99 [1043.51, 2815.00]	1444.49 [942.38, 2815.00]
Missing	4 (0.9%)	5 (1.9%)	9 (1.3%)
PAL_obs_est			
N	430	267	697
Mean (SD)	1.65 (0.28)	1.68 (0.27)	1.66 (0.27)
Median [Min, Max]	1.63 [1.02, 2.47]	1.67 [1.02, 2.48]	1.64 [1.02, 2.48]
Missing	4 (0.9%)	3 (1.1%)	7 (1.0%)
PALCAT_obs_est			
PAL<1	0 (0%)	0 (0%)	0 (0%)
S	134 (31.2%)	63 (23.6%)	197 (28.3%)
LA	107 (24.9%)	69 (25.8%)	176 (25.3%)
A	95 (22.1%)	69 (25.8%)	164 (23.5%)
VA	94 (21.9%)	66 (24.7%)	160 (23.0%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	4 (0.9%)	3 (1.1%)	7 (1.0%)

3.1.4 Adults

19+ years old

	F (N=3585)	M (N=1871)	Overall (N=5456)
Age (years)			
N	3585	1871	5456
Mean (SD)	53.87 (19.76)	50.25 (19.28)	52.63 (19.67)
Median [Min, Max]	57.00 [19.00, 98.00]	47.98 [19.00, 101.00]	52.00 [19.00, 101.00]
Life_Stage			
19-30 years	624 (17.4%)	357 (19.1%)	981 (18.0%)
31-50 years	979 (27.3%)	694 (37.1%)	1673 (30.7%)
51-70 years	1077 (30.0%)	443 (23.7%)	1520 (27.9%)
>=71 years	905 (25.2%)	377 (20.1%)	1282 (23.5%)
Sex			
F	3585 (100%)	0 (0%)	3585 (65.7%)
M	0 (0%)	1871 (100%)	1871 (34.3%)
Ethnicity			
African	1 (0.0279%)	3 (0.160%)	4 (0.0733%)
African American	558 (15.6%)	174 (9.30%)	732 (13.4%)
Asian	95 (2.65%)	93 (4.97%)	188 (3.45%)
Caucasian	1867 (52.1%)	960 (51.3%)	2827 (51.8%)
Hispanic	321 (8.95%)	164 (8.77%)	485 (8.89%)
Other	23 (0.642%)	9 (0.481%)	32 (0.587%)
Unknown or data not available	720 (20.1%)	468 (25.0%)	1188 (21.8%)
Height (cm)			
N	3585	1871	5456
Mean (SD)	162.34 (7.10)	175.92 (7.54)	166.99 (9.70)
Median [Min, Max]	162.40 [137.00, 196.00]	176.00 [147.00, 202.50]	166.00 [137.00, 202.50]
Weight (kg)			
N	3582	1866	5448
Mean (SD)	71.88 (16.12)	83.12 (16.45)	75.73 (17.09)
Median [Min, Max]	69.00 [37.80, 164.55]	80.14 [37.20, 215.70]	73.70 [37.20, 215.70]
Missing	3 (0.1%)	5 (0.3%)	8 (0.1%)
FFM (kg)			
N	3149	1510	4659
Mean (SD)	42.69 (6.61)	58.15 (8.91)	47.70 (10.37)
Median [Min, Max]	41.96 [21.11, 81.31]	57.60 [28.87, 97.81]	45.41 [21.11, 97.81]
Missing	436 (12.2%)	361 (19.3%)	797 (14.6%)
FM (kg)			
N	3146	1506	4652

	F (N=3585)	M (N=1871)	Overall (N=5456)
Mean (SD)	29.57 (11.53)	24.91 (10.54)	28.06 (11.43)
Median [Min, Max]	27.63 [4.49, 92.14]	23.76 [2.23, 90.27]	26.31 [2.23, 92.14]
Missing	439 (12.2%)	365 (19.5%)	804 (14.7%)
FM_pct			
N	3146	1506	4652
Mean (SD)	39.73 (7.86)	29.15 (8.01)	36.31 (9.33)
Median [Min, Max]	40.40 [6.90, 70.08]	29.62 [2.91, 56.19]	36.87 [2.91, 70.08]
Missing	439 (12.2%)	365 (19.5%)	804 (14.7%)
BMI			
N	3582	1867	5449
Mean (SD)	27.25 (5.88)	26.85 (4.86)	27.11 (5.55)
Median [Min, Max]	26.09 [14.69, 57.87]	26.00 [14.33, 61.70]	26.05 [14.33, 61.70]
Missing	3 (0.1%)	4 (0.2%)	7 (0.1%)
BMIcat			
< 18.5 kg/m2	48 (1.34%)	20 (1.07%)	68 (1.25%)
>= 18.5 & <25 kg/m2	1436 (40.1%)	698 (37.4%)	2134 (39.2%)
>= 25 & <30 kg/m2	1140 (31.8%)	761 (40.8%)	1901 (34.9%)
>= 30 & <35 kg/m2	588 (16.4%)	271 (14.5%)	859 (15.8%)
>= 35 & <40 kg/m2	241 (6.73%)	82 (4.39%)	323 (5.93%)
>= 40 kg/m2	129 (3.60%)	35 (1.87%)	164 (3.01%)
Missing	3 (0.1%)	4 (0.2%)	7 (0.1%)
TEE kcal/d			
N	3580	1867	5447
Mean (SD)	2201.01 (415.88)	2890.50 (614.30)	2437.34 (591.68)
Median [Min, Max]	2166.00 [833.81, 4450.48]	2844.89 [1181.61, 5444.56]	2337.75 [833.81, 5444.56]
Missing	5 (0.1%)	4 (0.2%)	9 (0.2%)
BEE kcal/d			
N	1346	1018	2364
Mean (SD)	1345.43 (224.54)	1673.23 (303.32)	1486.59 (307.66)
Median [Min, Max]	1333.33 [783.96, 2576.00]	1652.96 [884.08, 3035.00]	1453.15 [783.96, 3035.00]
Missing	2239 (62.5%)	853 (45.6%)	3092 (56.7%)
PAL			
N	1342	1017	2359
Mean (SD)	1.69 (0.26)	1.74 (0.27)	1.71 (0.27)
Median [Min, Max]	1.68 [1.00, 2.48]	1.71 [1.02, 2.47]	1.69 [1.00, 2.48]
Missing	2243 (62.6%)	854 (45.6%)	3097 (56.8%)
PALCAT			
PAL<1	0 (0%)	0 (0%)	0 (0%)
S	343 (25.6%)	226 (22.2%)	569 (24.1%)
LA	337 (25.1%)	229 (22.5%)	566 (24.0%)
A	327 (24.4%)	240 (23.6%)	567 (24.0%)
VA	335 (25.0%)	322 (31.7%)	657 (27.9%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	2243 (62.6%)	854 (45.6%)	3097 (56.8%)
BMR_kcal_Schofield			
N	3582	1866	5448
Mean (SD)	1393.34 (172.89)	1770.39 (247.74)	1522.48 (269.60)
Median [Min, Max]	1374.35 [1000.33, 2829.45]	1763.56 [1069.83, 3346.80]	1454.73 [1000.33, 3346.80]
Missing	3 (0.1%)	5 (0.3%)	8 (0.1%)
PAL_obs_est			
N	3577	1863	5440
Mean (SD)	1.61 (0.24)	1.68 (0.27)	1.64 (0.25)
Median [Min, Max]	1.60 [0.70, 2.48]	1.65 [0.72, 2.47]	1.61 [0.70, 2.48]
Missing	8 (0.2%)	8 (0.4%)	16 (0.3%)
PALCAT_obs_est			
PAL<1	8 (0.224%)	4 (0.215%)	12 (0.221%)

	F (N=3585)	M (N=1871)	Overall (N=5456)
S	1356 (37.9%)	556 (29.8%)	1912 (35.1%)
LA	958 (26.8%)	463 (24.9%)	1421 (26.1%)
A	708 (19.8%)	392 (21.0%)	1100 (20.2%)
VA	547 (15.3%)	448 (24.0%)	995 (18.3%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	8 (0.2%)	8 (0.4%)	16 (0.3%)

3.1.5 Overall

0-100+ years old (except pregnant and lactating women)

	F (N=4973)	M (N=2863)	Overall (N=7836)
Age (years)			
N	4973	2863	7836
Mean (SD)	40.74 (27.13)	34.96 (26.34)	38.63 (26.98)
Median [Min, Max]	40.67 [0.03, 98.00]	33.00 [0.02, 101.00]	38.00 [0.02, 101.00]
Life_Stage			
0-6 months	251 (5.05%)	192 (6.71%)	443 (5.65%)
7-11 months	69 (1.39%)	43 (1.50%)	112 (1.43%)
1-3 years	139 (2.80%)	104 (3.63%)	243 (3.10%)
4-8 years	495 (9.95%)	383 (13.4%)	878 (11.2%)
9-13 years	184 (3.70%)	120 (4.19%)	304 (3.88%)
14-18 years	250 (5.03%)	150 (5.24%)	400 (5.10%)
19-30 years	624 (12.5%)	357 (12.5%)	981 (12.5%)
31-50 years	979 (19.7%)	694 (24.2%)	1673 (21.4%)
51-70 years	1077 (21.7%)	443 (15.5%)	1520 (19.4%)
>=71 years	905 (18.2%)	377 (13.2%)	1282 (16.4%)
Sex			
F	4973 (100%)	0 (0%)	4973 (63.5%)
M	0 (0%)	2863 (100%)	2863 (36.5%)
Ethnicity			
African	2 (0.0402%)	4 (0.140%)	6 (0.0766%)
African American	595 (12.0%)	223 (7.79%)	818 (10.4%)
Asian	103 (2.07%)	95 (3.32%)	198 (2.53%)
Caucasian	2214 (44.5%)	1248 (43.6%)	3462 (44.2%)
Hispanic	348 (7.00%)	201 (7.02%)	549 (7.01%)
Other	44 (0.885%)	28 (0.978%)	72 (0.919%)
Unknown or data not available	1667 (33.5%)	1064 (37.2%)	2731 (34.9%)
Height (cm)			
N	4961	2845	7806
Mean (SD)	148.98 (29.61)	154.37 (37.97)	150.94 (33.00)
Median [Min, Max]	160.00 [46.40, 196.00]	172.00 [47.30, 202.50]	162.40 [46.40, 202.50]
Missing	12 (0.2%)	18 (0.6%)	30 (0.4%)
Weight (kg)			
N	4970	2857	7827
Mean (SD)	59.71 (26.38)	63.92 (32.29)	61.25 (28.75)
Median [Min, Max]	63.40 [2.36, 164.55]	73.00 [2.70, 215.70]	66.10 [2.36, 215.70]
Missing	3 (0.1%)	6 (0.2%)	9 (0.1%)
FFM (kg)			
N	3793	2096	5889
Mean (SD)	38.81 (12.36)	48.24 (20.42)	42.17 (16.34)
Median [Min, Max]	40.90 [1.80, 81.31]	54.56 [2.28, 97.81]	43.35 [1.80, 97.81]
Missing	1180 (23.7%)	767 (26.8%)	1947 (24.8%)
FM (kg)			
N	3789	2092	5881
Mean (SD)	26.20 (13.58)	20.02 (12.59)	24.00 (13.56)
Median [Min, Max]	25.43 [0.12, 92.14]	19.85 [0.07, 90.27]	23.51 [0.07, 92.14]

	F (N=4973)	M (N=2863)	Overall (N=7836)
Missing	1184 (23.8%)	771 (26.9%)	1955 (24.9%)
FM_pct			
N	3789	2092	5881
Mean (SD)	37.94 (8.77)	27.78 (8.31)	34.33 (9.89)
Median [Min, Max]	38.75 [3.69, 70.08]	28.02 [2.06, 56.19]	34.64 [2.06, 70.08]
Missing	1184 (23.8%)	771 (26.9%)	1955 (24.9%)
BMI			
N	4958	2841	7799
Mean (SD)	24.77 (6.78)	23.87 (6.12)	24.44 (6.56)
Median [Min, Max]	24.09 [10.77, 57.87]	23.90 [10.89, 61.70]	24.00 [10.77, 61.70]
Missing	15 (0.3%)	22 (0.8%)	37 (0.5%)
BMIcat			
< 18.5 kg/m2	963 (19.4%)	667 (23.5%)	1630 (20.9%)
>= 18.5 & <25 kg/m2	1805 (36.4%)	971 (34.2%)	2776 (35.6%)
>= 25 & <30 kg/m2	1203 (24.3%)	799 (28.1%)	2002 (25.7%)
>= 30 & <35 kg/m2	604 (12.2%)	279 (9.82%)	883 (11.3%)
>= 35 & <40 kg/m2	246 (4.96%)	90 (3.17%)	336 (4.31%)
>= 40 kg/m2	137 (2.76%)	35 (1.23%)	172 (2.21%)
Missing	15 (0.3%)	22 (0.8%)	37 (0.5%)
Percentile			
N	1376	974	2350
Mean (SD)	59.32 (26.99)	58.95 (29.06)	59.16 (27.86)
Median [Min, Max]	60.53 [0.73, 99.38]	60.78 [0.09, 99.90]	60.62 [0.09, 99.90]
Missing	3597 (72.3%)	1889 (66.0%)	5486 (70.0%)
Percentile category			
<5th	19 (1.38%)	23 (2.36%)	42 (1.79%)
5th to 85th	1043 (75.8%)	696 (71.5%)	1739 (74.0%)
85th to 95th	158 (11.5%)	107 (11.0%)	265 (11.3%)
>95th	156 (11.3%)	148 (15.2%)	304 (12.9%)
Missing	3597 (72.3%)	1889 (66.0%)	5486 (70.0%)
TEE kcal/d			
N	4966	2858	7824
Mean (SD)	1990.45 (631.90)	2441.30 (975.27)	2155.14 (804.93)
Median [Min, Max]	2066.37 [188.31, 4450.48]	2594.99 [151.33, 5555.39]	2176.00 [151.33, 5555.39]
Missing	7 (0.1%)	5 (0.2%)	12 (0.2%)
BEE kcal/d			
N	1997	1372	3369
Mean (SD)	1241.27 (319.97)	1527.37 (436.16)	1357.78 (397.34)
Median [Min, Max]	1265.00 [263.00, 2576.00]	1577.22 [286.00, 3035.00]	1357.55 [263.00, 3035.00]
Missing	2976 (59.8%)	1491 (52.1%)	4467 (57.0%)
PAL			
N	1993	1371	3364
Mean (SD)	1.64 (0.28)	1.67 (0.29)	1.65 (0.29)
Median [Min, Max]	1.62 [1.00, 2.48]	1.65 [1.01, 2.48]	1.63 [1.00, 2.48]
Missing	2980 (59.9%)	1492 (52.1%)	4472 (57.1%)
PALCAT			
PAL<1	0 (0%)	0 (0%)	0 (0%)
S	536 (26.9%)	323 (23.6%)	859 (25.5%)
LA	491 (24.6%)	336 (24.5%)	827 (24.6%)
A	468 (23.5%)	325 (23.7%)	793 (23.6%)
VA	498 (25.0%)	387 (28.2%)	885 (26.3%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	2980 (59.9%)	1492 (52.1%)	4472 (57.1%)
BMR_kcal_Schofield			
N	4958	2839	7797
Mean (SD)	1262.38 (337.93)	1506.66 (517.76)	1351.33 (428.97)

	F (N=4973)	M (N=2863)	Overall (N=7836)
Median [Min, Max]	1332.89 [99.67, 2829.45]	1670.83 [100.69, 3346.80]	1384.54 [99.67, 3346.80]
Missing	15 (0.3%)	24 (0.8%)	39 (0.5%)
PAL_obs_est			
N	4955	2840	7795
Mean (SD)	1.58 (0.25)	1.62 (0.28)	1.60 (0.26)
Median [Min, Max]	1.57 [0.70, 2.48]	1.60 [0.72, 2.48]	1.58 [0.70, 2.48]
Missing	18 (0.4%)	23 (0.8%)	41 (0.5%)
PALCAT_obs_est			
PAL<1	8 (0.161%)	5 (0.176%)	13 (0.167%)
S	1758 (35.5%)	804 (28.3%)	2562 (32.9%)
LA	1302 (26.3%)	714 (25.1%)	2016 (25.9%)
A	1033 (20.8%)	625 (22.0%)	1658 (21.3%)
VA	854 (17.2%)	692 (24.4%)	1546 (19.8%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	18 (0.4%)	23 (0.8%)	41 (0.5%)

3.1.6 Pregnant or Lactating women

3.1.6.1 Pregnant

	1st Trimester (N=31)	2nd Trimester (N=197)	3rd Trimester (N=203)	NPNL (N=130)	Overall (N=561)
Sex					
F	31 (100%)	197 (100%)	203 (100%)	130 (100%)	561 (100%)
Pregnant					
Yes	31 (100%)	197 (100%)	203 (100%)	0 (0%)	431 (76.8%)
No	0 (0%)	0 (0%)	0 (0%)	130 (100%)	130 (23.2%)
Lactating					
No	31 (100%)	197 (100%)	203 (100%)	130 (100%)	561 (100%)
P_stage					
1st Trimester	31 (100%)	0 (0%)	0 (0%)	0 (0%)	31 (5.53%)
2nd Trimester	0 (0%)	197 (100%)	0 (0%)	0 (0%)	197 (35.1%)
3rd Trimester	0 (0%)	0 (0%)	203 (100%)	0 (0%)	203 (36.2%)
NPNL	0 (0%)	0 (0%)	0 (0%)	130 (100%)	130 (23.2%)
Weeks					
N	31	197	203	130	561
Mean (SD)	9.29 (2.61)	19.15 (4.29)	34.87 (2.25)	0.00 (0.00)	19.86 (13.72)
Median [Min, Max]	9.00 [6.00, 12.00]	18.00 [14.50, 27.00]	36.00 [30.00, 38.14]	0.00 [0.00, 0.00]	20.86 [0.00, 38.14]
Age					
N	31	197	203	130	561
Mean (SD)	28.83 (3.22)	29.08 (4.44)	29.30 (4.25)	30.18 (4.09)	29.40 (4.24)
Median [Min, Max]	29.00 [21.00, 33.00]	29.00 [18.00, 41.00]	29.00 [18.00, 41.00]	30.00 [21.00, 41.00]	29.00 [18.00, 41.00]
Life_Stage					
19-30 years	19 (61.3%)	117 (59.4%)	122 (60.1%)	70 (53.8%)	328 (58.5%)
31-50 years	12 (38.7%)	78 (39.6%)	80 (39.4%)	60 (46.2%)	230 (41.0%)
14-18 years	0 (0%)	2 (1.02%)	1 (0.493%)	0 (0%)	3 (0.535%)
Height					
N	30	196	202	130	558
Mean (SD)	164.13 (7.38)	163.99 (6.78)	164.28 (6.47)	164.30 (6.09)	164.18 (6.53)
Median [Min, Max]	164.00 [155.00, 180.00]	163.75 [142.10, 183.50]	164.00 [142.10, 180.00]	164.00 [149.81, 180.00]	164.00 [142.10, 183.50]
Missing	1 (3.2%)	1 (0.5%)	1 (0.5%)	0 (0%)	3 (0.5%)
Weight					
N	30	196	202	130	558
Mean (SD)	63.23 (8.61)	78.00 (20.42)	82.86 (20.57)	60.76 (10.54)	74.95 (20.22)
Median [Min, Max]	62.21 [50.57, 77.70]	74.50 [48.60, 149.80]	76.25 [55.40, 170.70]	59.25 [40.10, 102.20]	69.90 [40.10, 170.70]
Missing	1 (3.2%)	1 (0.5%)	1 (0.5%)	0 (0%)	3 (0.5%)
FFM					
N	0	69	60	0	129

	1st Trimester (N=31)	2nd Trimester (N=197)	3rd Trimester (N=203)	NPNL (N=130)	Overall (N=561)
Mean (SD)	NA (NA)	54.01 (7.66)	62.25 (9.69)	NA (NA)	57.84 (9.57)
Median [Min, Max]	NA [NA, NA]	52.97 [40.74, 71.35]	61.61 [45.09, 89.83]	NA [NA, NA]	57.46 [40.74, 89.83]
Missing	31 (100%)	128 (65.0%)	143 (70.4%)	130 (100%)	432 (77.0%)
FM					
N	0	69	60	0	129
Mean (SD)	NA (NA)	45.00 (11.06)	44.54 (10.65)	NA (NA)	44.78 (10.83)
Median [Min, Max]	NA [NA, NA]	42.32 [29.22, 87.27]	42.93 [28.20, 82.56]	NA [NA, NA]	42.67 [28.20, 87.27]
Missing	31 (100%)	128 (65.0%)	143 (70.4%)	130 (100%)	432 (77.0%)
FM_pct					
N	0	69	60	0	129
Mean (SD)	NA (NA)	45.06 (4.55)	41.45 (5.04)	NA (NA)	43.38 (5.10)
Median [Min, Max]	NA [NA, NA]	45.04 [36.14, 58.25]	40.92 [32.85, 54.82]	NA [NA, NA]	43.17 [32.85, 58.25]
Missing	31 (100%)	128 (65.0%)	143 (70.4%)	130 (100%)	432 (77.0%)
BMI					
N	30	196	202	130	558
Mean (SD)	23.48 (2.98)	28.97 (7.20)	30.70 (7.32)	22.48 (3.55)	27.79 (7.21)
Median [Min, Max]	22.96 [18.80, 29.97]	27.11 [18.75, 56.31]	28.16 [20.79, 57.63]	21.54 [17.43, 35.61]	25.63 [17.43, 57.63]
Missing	1 (3.2%)	1 (0.5%)	1 (0.5%)	0 (0%)	3 (0.5%)
BMIcat					
< 18.5 kg/m2	0 (0%)	0 (0%)	0 (0%)	11 (8.46%)	11 (1.97%)
>= 18.5 & <25 kg/m2	22 (73.3%)	77 (39.3%)	58 (28.7%)	91 (70.0%)	248 (44.4%)
>= 25 & <30 kg/m2	8 (26.7%)	36 (18.4%)	54 (26.7%)	24 (18.5%)	122 (21.9%)
>= 30 & <35 kg/m2	0 (0%)	43 (21.9%)	35 (17.3%)	2 (1.54%)	80 (14.3%)
>= 35 & <40 kg/m2	0 (0%)	24 (12.2%)	29 (14.4%)	2 (1.54%)	55 (9.86%)
>= 40 kg/m2	0 (0%)	16 (8.16%)	26 (12.9%)	0 (0%)	42 (7.53%)
Missing	1 (3.2%)	1 (0.5%)	1 (0.5%)	0 (0%)	3 (0.5%)
TEE					
N	31	197	203	130	561
Mean (SD)	2289.11 (311.55)	2521.96 (432.87)	2753.23 (516.54)	2453.60 (413.37)	2576.94 (476.27)
Median [Min, Max]	2323.00 [1628.11, 2904.88]	2525.59 [1149.38, 3571.29]	2729.00 [1526.29, 4766.80]	2426.41 [1277.96, 3529.16]	2563.33 [1149.38, 4766.80]
BEE					
N	31	128	138	127	424
Mean (SD)	1454.83 (173.23)	1475.48 (185.96)	1710.80 (216.15)	1362.92 (163.64)	1516.85 (236.23)
Median [Min, Max]	1447.00 [1046.00, 1833.41]	1453.90 [1041.83, 1975.71]	1698.20 [1040.39, 2392.59]	1361.38 [859.50, 1843.11]	1485.99 [859.50, 2392.59]
Missing	0 (0%)	69 (35.0%)	65 (32.0%)	3 (2.3%)	137 (24.4%)
PAL					
N	30	125	135	126	416
Mean (SD)	1.60 (0.17)	1.71 (0.26)	1.61 (0.28)	1.82 (0.30)	1.70 (0.28)
Median [Min, Max]	1.64 [1.19, 1.92]	1.66 [1.05, 2.48]	1.57 [1.12, 2.39]	1.81 [1.17, 2.49]	1.66 [1.05, 2.49]
Missing	1 (3.2%)	72 (36.5%)	68 (33.5%)	4 (3.1%)	145 (25.8%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	10 (33.3%)	25 (20.0%)	59 (43.7%)	22 (17.5%)	116 (27.9%)
LA	9 (30.0%)	40 (32.0%)	30 (22.2%)	23 (18.3%)	102 (24.5%)
A	9 (30.0%)	23 (18.4%)	20 (14.8%)	30 (23.8%)	82 (19.7%)
VA	2 (6.67%)	37 (29.6%)	26 (19.3%)	51 (40.5%)	116 (27.9%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	1 (3.2%)	72 (36.5%)	68 (33.5%)	4 (3.1%)	145 (25.8%)
BMR_kcal_Schofield					
N	30	196	202	130	558
Mean (SD)	1396.41 (108.07)	1555.57 (235.87)	1611.98 (252.49)	1357.52 (110.85)	1521.29 (237.55)
Median [Min, Max]	1398.26 [1255.12, 1642.45]	1481.06 [1204.61, 2309.85]	1539.92 [1298.26, 2910.75]	1342.98 [1073.53, 1706.89]	1454.79 [1073.53, 2910.75]
Missing	1 (3.2%)	1 (0.5%)	1 (0.5%)	0 (0%)	3 (0.5%)
PAL_obs_est					
N	31	197	203	130	561
Mean (SD)	1.58 (0.20)	1.61 (0.28)	1.57 (0.27)	1.81 (0.31)	1.64 (0.29)

	1st Trimester (N=31)	2nd Trimester (N=197)	3rd Trimester (N=203)	NPNL (N=130)	Overall (N=561)
Median [Min, Max]	1.64 [0.99, 1.92]	1.58 [0.83, 2.48]	1.55 [0.88, 2.39]	1.81 [0.91, 2.49]	1.61 [0.83, 2.49]
PALCAT_obs_est					
PAL<1	1 (3.23%)	3 (1.52%)	3 (1.48%)	1 (0.769%)	8 (1.43%)
S	10 (32.3%)	74 (37.6%)	90 (44.3%)	22 (16.9%)	196 (34.9%)
LA	9 (29.0%)	52 (26.4%)	54 (26.6%)	24 (18.5%)	139 (24.8%)
A	9 (29.0%)	31 (15.7%)	27 (13.3%)	30 (23.1%)	97 (17.3%)
VA	2 (6.45%)	37 (18.8%)	29 (14.3%)	53 (40.8%)	121 (21.6%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

3.1.6.2 Lactating

	Lactating 1-3 mo (N=91)	Lactating 4-6 mo (N=112)	Overall (N=203)
Sex			
F	91 (100%)	112 (100%)	203 (100%)
Pregnant			
No	91 (100%)	112 (100%)	203 (100%)
Lactating			
Yes	91 (100%)	112 (100%)	203 (100%)
P_stage			
Lactating 1-3 mo	91 (100%)	0 (0%)	91 (44.8%)
Lactating 4-6 mo	0 (0%)	112 (100%)	112 (55.2%)
Weeks			
N	91	112	203
Mean (SD)	9.26 (3.01)	24.86 (2.20)	17.87 (8.19)
Median [Min, Max]	8.70 [4.30, 13.00]	25.00 [19.00, 27.00]	20.60 [4.30, 27.00]
Age			
N	91	112	203
Mean (SD)	30.44 (3.93)	30.30 (4.11)	30.36 (4.02)
Median [Min, Max]	30.00 [21.00, 41.00]	30.00 [21.00, 41.00]	30.00 [21.00, 41.00]
Life_Stage			
19-30 years	52 (57.1%)	57 (50.9%)	109 (53.7%)
31-50 years	39 (42.9%)	55 (49.1%)	94 (46.3%)
Height			
N	90	112	202
Mean (SD)	164.68 (6.13)	164.69 (6.49)	164.69 (6.32)
Median [Min, Max]	165.00 [149.81, 180.00]	165.40 [142.10, 179.90]	165.00 [142.10, 180.00]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
Weight			
N	90	112	202
Mean (SD)	62.31 (9.93)	76.70 (22.78)	70.29 (19.54)
Median [Min, Max]	60.30 [45.50, 87.90]	70.95 [42.50, 139.20]	63.65 [42.50, 139.20]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
FFM			
N	5	39	44
Mean (SD)	41.19 (3.34)	52.93 (7.57)	51.60 (8.12)
Median [Min, Max]	41.18 [36.36, 44.80]	51.86 [34.67, 73.00]	51.07 [34.67, 73.00]
Missing	86 (94.5%)	73 (65.2%)	159 (78.3%)
FM			
N	5	39	44
Mean (SD)	22.02 (13.64)	48.37 (12.43)	45.38 (15.02)
Median [Min, Max]	14.57 [14.10, 45.77]	47.96 [25.21, 77.43]	46.65 [14.10, 77.43]
Missing	86 (94.5%)	73 (65.2%)	159 (78.3%)
FM_pct			
N	5	39	44
Mean (SD)	32.90 (11.96)	47.22 (6.17)	45.59 (8.25)
Median [Min, Max]	28.00 [23.94, 53.44]	46.61 [33.10, 62.23]	45.74 [23.94, 62.23]
Missing	86 (94.5%)	73 (65.2%)	159 (78.3%)

	Lactating 1-3 mo (N=91)	Lactating 4-6 mo (N=112)	Overall (N=203)
BMI			
N	90	112	202
Mean (SD)	22.93 (3.20)	28.27 (8.16)	25.89 (6.96)
Median [Min, Max]	22.47 [18.21, 31.57]	25.92 [17.87, 49.25]	23.50 [17.87, 49.25]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
BMIcat			
< 18.5 kg/m2	3 (3.33%)	4 (3.57%)	7 (3.47%)
>= 18.5 & <25 kg/m2	68 (75.6%)	50 (44.6%)	118 (58.4%)
>= 25 & <30 kg/m2	13 (14.4%)	15 (13.4%)	28 (13.9%)
>= 30 & <35 kg/m2	6 (6.67%)	15 (13.4%)	21 (10.4%)
>= 35 & <40 kg/m2	0 (0%)	19 (17.0%)	19 (9.41%)
>= 40 kg/m2	0 (0%)	9 (8.04%)	9 (4.46%)
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
TEE			
N	91	112	203
Mean (SD)	2296.91 (376.00)	2494.47 (466.77)	2405.91 (438.65)
Median [Min, Max]	2315.00 [1609.00, 3105.00]	2444.02 [1519.36, 3621.51]	2373.87 [1519.36, 3621.51]
BEE			
N	86	72	158
Mean (SD)	1370.37 (131.43)	1379.85 (163.99)	1374.69 (146.75)
Median [Min, Max]	1356.50 [1108.00, 1873.09]	1340.42 [1053.71, 1865.21]	1351.37 [1053.71, 1873.09]
Missing	5 (5.5%)	40 (35.7%)	45 (22.2%)
PAL			
N	86	72	158
Mean (SD)	1.68 (0.26)	1.72 (0.26)	1.70 (0.26)
Median [Min, Max]	1.69 [1.02, 2.32]	1.72 [1.08, 2.40]	1.70 [1.02, 2.40]
Missing	5 (5.5%)	40 (35.7%)	45 (22.2%)
PALCAT			
PAL<1	0 (0%)	0 (0%)	0 (0%)
S	26 (30.2%)	17 (23.6%)	43 (27.2%)
LA	15 (17.4%)	12 (16.7%)	27 (17.1%)
A	28 (32.6%)	22 (30.6%)	50 (31.6%)
VA	17 (19.8%)	21 (29.2%)	38 (24.1%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)
Missing	5 (5.5%)	40 (35.7%)	45 (22.2%)
BMR_kcal_Schofield			
N	90	112	202
Mean (SD)	1377.74 (109.74)	1531.05 (264.33)	1462.74 (223.05)
Median [Min, Max]	1355.57 [1162.38, 1718.94]	1454.78 [1107.36, 2339.78]	1387.79 [1107.36, 2339.78]
Missing	1 (1.1%)	0 (0%)	1 (0.5%)
PAL_obs_est			
N	91	112	203
Mean (SD)	1.68 (0.26)	1.65 (0.27)	1.67 (0.27)
Median [Min, Max]	1.69 [1.02, 2.32]	1.66 [0.97, 2.40]	1.68 [0.97, 2.40]
PALCAT_obs_est			
PAL<1	0 (0%)	1 (0.893%)	1 (0.493%)
S	27 (29.7%)	37 (33.0%)	64 (31.5%)
LA	16 (17.6%)	21 (18.8%)	37 (18.2%)
A	29 (31.9%)	26 (23.2%)	55 (27.1%)
VA	19 (20.9%)	27 (24.1%)	46 (22.7%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)

3.1.6.3 Together

	Overall (N=764)
Sex	
F	764 (100%)

	Overall (N=764)
Pregnant	
No	333 (43.6%)
Yes	431 (56.4%)
Lactating	
No	561 (73.4%)
Yes	203 (26.6%)
P_stage	
1st Trimester	31 (4.06%)
2nd Trimester	197 (25.8%)
3rd Trimester	203 (26.6%)
Lactating 1-3 mo	91 (11.9%)
Lactating 4-6 mo	112 (14.7%)
NPNL	130 (17.0%)
Weeks	
N	764
Mean (SD)	19.33 (12.52)
Median [Min, Max]	20.86 [0.00, 38.14]
Age	
N	764
Mean (SD)	29.66 (4.21)
Median [Min, Max]	29.67 [18.00, 41.00]
Life_Stage	
14-18 years	3 (0.393%)
19-30 years	437 (57.2%)
31-50 years	324 (42.4%)
Height	
N	760
Mean (SD)	164.31 (6.47)
Median [Min, Max]	164.00 [142.10, 183.50]
Missing	4 (0.5%)
Weight	
N	760
Mean (SD)	73.71 (20.13)
Median [Min, Max]	68.00 [40.10, 170.70]
Missing	4 (0.5%)
FFM	
N	173
Mean (SD)	56.25 (9.59)
Median [Min, Max]	55.51 [34.67, 89.83]
Missing	591 (77.4%)
FM	
N	173
Mean (SD)	44.94 (11.99)
Median [Min, Max]	43.25 [14.10, 87.27]
Missing	591 (77.4%)
FM_pct	
N	173
Mean (SD)	43.94 (6.11)
Median [Min, Max]	43.96 [23.94, 62.23]
Missing	591 (77.4%)
BMI	
N	760
Mean (SD)	27.28 (7.19)
Median [Min, Max]	24.92 [17.43, 57.63]
Missing	4 (0.5%)
BMIcat	

	Overall (N=764)
< 18.5 kg/m2	18 (2.37%)
>= 18.5 & <25 kg/m2	366 (48.2%)
>= 25 & <30 kg/m2	150 (19.7%)
>= 30 & <35 kg/m2	101 (13.3%)
>= 35 & <40 kg/m2	74 (9.74%)
>= 40 kg/m2	51 (6.71%)
Missing	4 (0.5%)
TEE	
N	764
Mean (SD)	2531.49 (472.38)
Median [Min, Max]	2522.37 [1149.38, 4766.80]
BEE	
N	582
Mean (SD)	1478.25 (224.62)
Median [Min, Max]	1434.29 [859.50, 2392.59]
Missing	182 (23.8%)
PAL	
N	574
Mean (SD)	1.70 (0.28)
Median [Min, Max]	1.68 [1.02, 2.49]
Missing	190 (24.9%)
PALCAT	
PAL<1	0 (0%)
S	159 (27.7%)
LA	129 (22.5%)
A	132 (23.0%)
VA	154 (26.8%)
PAL>2.5	0 (0%)
Missing	190 (24.9%)
BMR_kcal_Schofield	
N	760
Mean (SD)	1505.73 (235.07)
Median [Min, Max]	1441.36 [1073.53, 2910.75]
Missing	4 (0.5%)
PAL_obs_est	
N	764
Mean (SD)	1.65 (0.29)
Median [Min, Max]	1.62 [0.83, 2.49]
PALCAT_obs_est	
PAL<1	9 (1.18%)
S	260 (34.0%)
LA	176 (23.0%)
A	152 (19.9%)
VA	167 (21.9%)
PAL>2.5	0 (0%)

3.2 Descriptive Stats by Age, Sex, BMI/Percentile

3.2.1 Infants

0-11 months old

3.2.1.1 Female

	<3th (N=5)	3th to 97th (N=307)	>97th (N=7)	Overall (N=320)
Age (years)				
N	5	307	7	320
Mean (SD)	0.19 (0.08)	0.40 (0.25)	0.68 (0.23)	0.40 (0.25)

	<3th (N=5)	3th to 97th (N=307)	>97th (N=7)	Overall (N=320)
Median [Min, Max]	0.25 [0.09, 0.25]	0.28 [0.03, 1.00]	0.55 [0.45, 0.98]	0.29 [0.03, 1.00]
Life_Stage				
0-6 months	5 (100%)	241 (78.5%)	4 (57.1%)	251 (78.4%)
7-11 months	0 (0%)	66 (21.5%)	3 (42.9%)	69 (21.6%)
Sex				
F	5 (100%)	307 (100%)	7 (100%)	320 (100%)
Ethnicity				
African	0 (0%)	0 (0%)	0 (0%)	0 (0%)
African American	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Asian	0 (0%)	2 (0.651%)	0 (0%)	2 (0.625%)
Caucasian	0 (0%)	100 (32.6%)	3 (42.9%)	104 (32.5%)
Hispanic	0 (0%)	15 (4.89%)	1 (14.3%)	16 (5.00%)
Other	2 (40.0%)	6 (1.95%)	1 (14.3%)	9 (2.81%)
Unknown or data not available	3 (60.0%)	184 (59.9%)	2 (28.6%)	189 (59.1%)
Height (cm)				
N	5	307	7	319
Mean (SD)	59.25 (6.95)	63.21 (6.57)	68.46 (3.05)	63.26 (6.57)
Median [Min, Max]	61.53 [47.20, 64.30]	62.40 [46.40, 80.00]	68.00 [64.80, 73.10]	62.70 [46.40, 80.00]
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.3%)
Weight (kg)				
N	5	307	7	320
Mean (SD)	4.74 (1.37)	6.64 (1.73)	9.67 (0.96)	6.67 (1.79)
Median [Min, Max]	5.27 [2.40, 5.75]	6.50 [2.36, 10.60]	9.76 [8.44, 11.30]	6.52 [2.36, 11.30]
FFM (kg)				
N	4	196	6	207
Mean (SD)	4.26 (0.37)	4.51 (1.08)	6.03 (0.69)	4.54 (1.09)
Median [Min, Max]	4.26 [3.81, 4.72]	4.38 [1.80, 7.94]	5.84 [5.27, 7.02]	4.38 [1.80, 7.94]
Missing	1 (20.0%)	111 (36.2%)	1 (14.3%)	113 (35.3%)
FM (kg)				
N	4	195	6	206
Mean (SD)	1.06 (0.64)	1.65 (0.71)	3.56 (0.66)	1.69 (0.78)
Median [Min, Max]	0.94 [0.42, 1.94]	1.58 [0.12, 3.69]	3.73 [2.60, 4.28]	1.59 [0.12, 4.28]
Missing	1 (20.0%)	112 (36.5%)	1 (14.3%)	114 (35.6%)
FM_pct				
N	4	195	6	206
Mean (SD)	19.38 (10.49)	25.92 (6.48)	36.98 (5.04)	26.11 (6.81)
Median [Min, Max]	17.44 [8.92, 33.71]	26.72 [3.69, 50.61]	38.73 [27.92, 41.46]	26.82 [3.69, 50.61]
Missing	1 (20.0%)	112 (36.5%)	1 (14.3%)	114 (35.6%)
Percentile				
N	5	307	7	319
Mean (SD)	2.10 (0.87)	51.26 (25.88)	98.26 (0.92)	51.52 (27.04)
Median [Min, Max]	2.07 [0.73, 2.91]	51.78 [3.22, 96.88]	97.98 [97.21, 99.38]	51.78 [0.73, 99.38]
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.3%)
TEE kcal/d				
N	5	307	7	320
Mean (SD)	354.18 (93.91)	491.52 (156.09)	598.77 (89.71)	490.86 (156.27)
Median [Min, Max]	358.38 [212.17, 473.71]	476.00 [188.31, 961.00]	561.17 [501.43, 778.00]	476.17 [188.31, 961.00]
BEE kcal/d				
N	0	104	0	104
Mean (SD)	NA (NA)	448.78 (90.22)	NA (NA)	448.78 (90.22)
Median [Min, Max]	NA [NA, NA]	445.00 [263.00, 649.00]	NA [NA, NA]	445.00 [263.00, 649.00]
Missing	5 (100%)	203 (66.1%)	7 (100%)	216 (67.5%)
PAL				
N	0	104	0	104
Mean (SD)	NA (NA)	1.28 (0.20)	NA (NA)	1.28 (0.20)
Median [Min, Max]	NA [NA, NA]	1.27 [1.00, 1.88]	NA [NA, NA]	1.27 [1.00, 1.88]

	<3th (N=5)	3th to 97th (N=307)	>97th (N=7)	Overall (N=320)
Missing	5 (100%)	203 (66.1%)	7 (100%)	216 (67.5%)
PALCAT				
PAL<1	NA	0 (0%)	NA	0 (0%)
S	NA	65 (62.5%)	NA	65 (62.5%)
LA	NA	21 (20.2%)	NA	21 (20.2%)
A	NA	11 (10.6%)	NA	11 (10.6%)
VA	NA	7 (6.73%)	NA	7 (6.73%)
PAL>2.5	NA	0 (0%)	NA	0 (0%)
Missing	5 (100%)	203 (66.1%)	7 (100%)	216 (67.5%)
BMR_kcal_Schofield				
N	5	307	7	319
Mean (SD)	269.78 (93.32)	341.26 (94.56)	444.10 (46.32)	342.39 (95.22)
Median [Min, Max]	301.82 [108.47, 337.88]	330.63 [99.67, 577.34]	441.96 [386.71, 518.12]	333.04 [99.67, 577.34]
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.3%)
PAL_obs_est				
N	5	307	7	319
Mean (SD)	1.40 (0.34)	1.39 (0.24)	1.35 (0.12)	1.39 (0.24)
Median [Min, Max]	1.39 [1.10, 1.96]	1.36 [1.00, 2.41]	1.30 [1.21, 1.59]	1.36 [1.00, 2.41]
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.3%)
PALCAT_obs_est				
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	2 (40.0%)	128 (41.7%)	4 (57.1%)	134 (42.0%)
LA	2 (40.0%)	70 (22.8%)	2 (28.6%)	74 (23.2%)
A	0 (0%)	54 (17.6%)	1 (14.3%)	55 (17.2%)
VA	1 (20.0%)	55 (17.9%)	0 (0%)	56 (17.6%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.3%)

3.2.1.2 Male

	<3th (N=8)	3th to 97th (N=220)	>97th (N=7)	Overall (N=235)
Age (years)				
N	8	220	7	235
Mean (SD)	0.14 (0.11)	0.39 (0.25)	0.58 (0.35)	0.38 (0.26)
Median [Min, Max]	0.15 [0.02, 0.25]	0.27 [0.03, 0.99]	0.51 [0.07, 0.99]	0.27 [0.02, 0.99]
Life_Stage				
0-6 months	8 (100%)	180 (81.8%)	4 (57.1%)	192 (81.7%)
7-11 months	0 (0%)	40 (18.2%)	3 (42.9%)	43 (18.3%)
Sex				
M	8 (100%)	220 (100%)	7 (100%)	235 (100%)
Ethnicity				
African	0 (0%)	0 (0%)	0 (0%)	0 (0%)
African American	0 (0%)	1 (0.455%)	0 (0%)	1 (0.426%)
Asian	0 (0%)	1 (0.455%)	0 (0%)	1 (0.426%)
Caucasian	0 (0%)	65 (29.5%)	1 (14.3%)	66 (28.1%)
Hispanic	1 (12.5%)	12 (5.45%)	0 (0%)	13 (5.53%)
Other	3 (37.5%)	10 (4.55%)	0 (0%)	13 (5.53%)
Unknown or data not available	4 (50.0%)	131 (59.5%)	6 (85.7%)	141 (60.0%)
Height (cm)				
N	8	220	7	235
Mean (SD)	58.21 (5.79)	63.56 (6.70)	67.39 (9.22)	63.49 (6.83)
Median [Min, Max]	58.40 [49.80, 65.00]	63.07 [47.30, 78.80]	67.00 [52.00, 78.70]	63.13 [47.30, 78.80]
Weight (kg)				
N	8	220	7	235
Mean (SD)	4.48 (1.18)	6.87 (1.79)	9.29 (2.52)	6.86 (1.89)
Median [Min, Max]	4.62 [2.70, 5.90]	6.83 [2.92, 11.35]	9.10 [5.08, 12.60]	6.81 [2.70, 12.60]
FFM (kg)				

	<3th (N=8)	3th to 97th (N=220)	>97th (N=7)	Overall (N=235)
N	7	158	4	169
Mean (SD)	3.67 (0.90)	4.90 (1.14)	6.13 (1.96)	4.88 (1.18)
Median [Min, Max]	3.77 [2.36, 4.63]	4.88 [2.28, 7.96]	5.88 [4.02, 8.74]	4.85 [2.28, 8.74]
Missing	1 (12.5%)	62 (28.2%)	3 (42.9%)	66 (28.1%)
FM (kg)				
N	7	158	4	169
Mean (SD)	0.72 (0.48)	1.66 (0.82)	2.48 (1.19)	1.64 (0.84)
Median [Min, Max]	0.65 [0.19, 1.29]	1.59 [0.07, 3.44]	2.50 [1.06, 3.86]	1.55 [0.07, 3.86]
Missing	1 (12.5%)	62 (28.2%)	3 (42.9%)	66 (28.1%)
FM_pct				
N	7	158	4	169
Mean (SD)	15.25 (7.98)	24.13 (7.35)	27.69 (4.96)	23.84 (7.53)
Median [Min, Max]	13.20 [4.78, 26.37]	24.56 [2.06, 41.65]	28.98 [20.84, 31.93]	24.32 [2.06, 41.65]
Missing	1 (12.5%)	62 (28.2%)	3 (42.9%)	66 (28.1%)
Percentile				
N	8	220	7	235
Mean (SD)	1.67 (1.03)	50.97 (27.47)	98.28 (1.05)	50.70 (29.26)
Median [Min, Max]	1.70 [0.09, 2.80]	50.20 [3.61, 96.96]	97.81 [97.17, 99.90]	50.17 [0.09, 99.90]
TEE kcal/d				
N	8	220	7	235
Mean (SD)	332.75 (116.25)	523.68 (185.60)	658.95 (211.91)	521.21 (188.63)
Median [Min, Max]	349.96 [184.65, 480.50]	515.32 [151.33, 1187.32]	642.69 [353.33, 911.00]	510.00 [151.33, 1187.32]
BEE kcal/d				
N	1	56	3	60
Mean (SD)	332.00 (NA)	470.93 (95.92)	537.33 (67.41)	471.93 (96.34)
Median [Min, Max]	332.00 [332.00, 332.00]	467.50 [286.00, 649.00]	503.00 [494.00, 615.00]	472.00 [286.00, 649.00]
Missing	7 (87.5%)	164 (74.5%)	4 (57.1%)	175 (74.5%)
PAL				
N	1	56	3	60
Mean (SD)	1.31 (NA)	1.30 (0.19)	1.45 (0.31)	1.31 (0.20)
Median [Min, Max]	1.31 [1.31, 1.31]	1.29 [1.01, 1.80]	1.48 [1.12, 1.75]	1.30 [1.01, 1.80]
Missing	7 (87.5%)	164 (74.5%)	4 (57.1%)	175 (74.5%)
PALCAT				
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	1 (100%)	30 (53.6%)	1 (33.3%)	32 (53.3%)
LA	0 (0%)	13 (23.2%)	0 (0%)	13 (21.7%)
A	0 (0%)	8 (14.3%)	1 (33.3%)	9 (15.0%)
VA	0 (0%)	5 (8.93%)	1 (33.3%)	6 (10.0%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	7 (87.5%)	164 (74.5%)	4 (57.1%)	175 (74.5%)
BMR_kcal_Schofield				
N	8	220	7	235
Mean (SD)	266.50 (88.03)	348.07 (102.00)	406.51 (140.33)	347.03 (103.94)
Median [Min, Max]	269.37 [138.55, 369.62]	340.56 [100.69, 579.94]	400.62 [172.33, 578.75]	341.54 [100.69, 579.94]
PAL_obs_est				
N	8	220	7	235
Mean (SD)	1.26 (0.12)	1.45 (0.27)	1.57 (0.29)	1.45 (0.27)
Median [Min, Max]	1.29 [1.12, 1.44]	1.39 [1.01, 2.40]	1.56 [1.12, 2.05]	1.39 [1.01, 2.40]
PALCAT_obs_est				
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	5 (62.5%)	73 (33.2%)	1 (14.3%)	79 (33.6%)
LA	3 (37.5%)	45 (20.5%)	1 (14.3%)	49 (20.9%)
A	0 (0%)	37 (16.8%)	2 (28.6%)	39 (16.6%)
VA	0 (0%)	65 (29.5%)	3 (42.9%)	68 (28.9%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)

3.2.1.3 All

	<3th (N=13)	3th to 97th (N=527)	>97th (N=14)	Overall (N=555)
Age (years)				
N	13	527	14	555
Mean (SD)	0.16 (0.10)	0.39 (0.25)	0.63 (0.29)	0.39 (0.26)
Median [Min, Max]	0.24 [0.02, 0.25]	0.28 [0.03, 1.00]	0.54 [0.07, 0.99]	0.28 [0.02, 1.00]
Life_Stage				
0-6 months	13 (100%)	421 (79.9%)	8 (57.1%)	443 (79.8%)
7-11 months	0 (0%)	106 (20.1%)	6 (42.9%)	112 (20.2%)
Sex				
F	5 (38.5%)	307 (58.3%)	7 (50.0%)	320 (57.7%)
M	8 (61.5%)	220 (41.7%)	7 (50.0%)	235 (42.3%)
Ethnicity				
African	0 (0%)	0 (0%)	0 (0%)	0 (0%)
African American	0 (0%)	1 (0.190%)	0 (0%)	1 (0.180%)
Asian	0 (0%)	3 (0.569%)	0 (0%)	3 (0.541%)
Caucasian	0 (0%)	165 (31.3%)	4 (28.6%)	170 (30.6%)
Hispanic	1 (7.69%)	27 (5.12%)	1 (7.14%)	29 (5.23%)
Other	5 (38.5%)	16 (3.04%)	1 (7.14%)	22 (3.96%)
Unknown or data not available	7 (53.8%)	315 (59.8%)	8 (57.1%)	330 (59.5%)
Height (cm)				
N	13	527	14	554
Mean (SD)	58.61 (5.99)	63.36 (6.62)	67.92 (6.62)	63.36 (6.68)
Median [Min, Max]	60.10 [47.20, 65.00]	62.80 [46.40, 80.00]	67.55 [52.00, 78.70]	62.90 [46.40, 80.00]
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)
Weight (kg)				
N	13	527	14	555
Mean (SD)	4.58 (1.21)	6.74 (1.76)	9.48 (1.84)	6.75 (1.83)
Median [Min, Max]	4.96 [2.40, 5.90]	6.70 [2.36, 11.35]	9.48 [5.08, 12.60]	6.68 [2.36, 12.60]
FFM (kg)				
N	11	354	10	376
Mean (SD)	3.88 (0.79)	4.68 (1.12)	6.07 (1.24)	4.69 (1.14)
Median [Min, Max]	4.25 [2.36, 4.72]	4.61 [1.80, 7.96]	5.84 [4.02, 8.74]	4.61 [1.80, 8.74]
Missing	2 (15.4%)	173 (32.8%)	4 (28.6%)	179 (32.3%)
FM (kg)				
N	11	353	10	375
Mean (SD)	0.84 (0.54)	1.65 (0.76)	3.12 (1.01)	1.67 (0.81)
Median [Min, Max]	0.86 [0.19, 1.94]	1.58 [0.07, 3.69]	3.25 [1.06, 4.28]	1.58 [0.07, 4.28]
Missing	2 (15.4%)	174 (33.0%)	4 (28.6%)	180 (32.4%)
FM_pct				
N	11	353	10	375
Mean (SD)	16.75 (8.69)	25.12 (6.93)	33.26 (6.74)	25.09 (7.22)
Median [Min, Max]	15.47 [4.78, 33.71]	25.76 [2.06, 50.61]	33.27 [20.84, 41.46]	25.76 [2.06, 50.61]
Missing	2 (15.4%)	174 (33.0%)	4 (28.6%)	180 (32.4%)
Percentile				
N	13	527	14	554
Mean (SD)	1.84 (0.96)	51.14 (26.53)	98.27 (0.95)	51.17 (27.98)
Median [Min, Max]	2.07 [0.09, 2.91]	51.30 [3.22, 96.96]	97.89 [97.17, 99.90]	51.36 [0.09, 99.90]
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)
TEE kcal/d				
N	13	527	14	555
Mean (SD)	340.99 (104.60)	504.95 (169.61)	628.86 (159.42)	503.71 (171.22)
Median [Min, Max]	358.38 [184.65, 480.50]	487.80 [151.33, 1187.32]	588.50 [353.33, 911.00]	486.00 [151.33, 1187.32]
BEE kcal/d				
N	1	160	3	164
Mean (SD)	332.00 (NA)	456.53 (92.56)	537.33 (67.41)	457.25 (92.89)
Median [Min, Max]	332.00 [332.00, 332.00]	447.50 [263.00, 649.00]	503.00 [494.00, 615.00]	450.00 [263.00, 649.00]
Missing	12 (92.3%)	367 (69.6%)	11 (78.6%)	391 (70.5%)

	<3th (N=13)	3th to 97th (N=527)	>97th (N=14)	Overall (N=555)
PAL				
N	1	160	3	164
Mean (SD)	1.31 (NA)	1.29 (0.19)	1.45 (0.31)	1.29 (0.20)
Median [Min, Max]	1.31 [1.31, 1.31]	1.27 [1.00, 1.88]	1.48 [1.12, 1.75]	1.27 [1.00, 1.88]
Missing	12 (92.3%)	367 (69.6%)	11 (78.6%)	391 (70.5%)
PALCAT				
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	1 (100%)	95 (59.4%)	1 (33.3%)	97 (59.1%)
LA	0 (0%)	34 (21.3%)	0 (0%)	34 (20.7%)
A	0 (0%)	19 (11.9%)	1 (33.3%)	20 (12.2%)
VA	0 (0%)	12 (7.50%)	1 (33.3%)	13 (7.93%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	12 (92.3%)	367 (69.6%)	11 (78.6%)	391 (70.5%)
BMR_kcal_Schofield				
N	13	527	14	554
Mean (SD)	267.76 (86.17)	344.10 (97.70)	425.30 (102.27)	344.36 (98.94)
Median [Min, Max]	295.22 [108.47, 369.62]	335.15 [99.67, 579.94]	432.36 [172.33, 578.75]	337.20 [99.67, 579.94]
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)
PAL_obs_est				
N	13	527	14	554
Mean (SD)	1.32 (0.23)	1.42 (0.26)	1.46 (0.24)	1.42 (0.26)
Median [Min, Max]	1.31 [1.10, 1.96]	1.38 [1.00, 2.41]	1.39 [1.12, 2.05]	1.38 [1.00, 2.41]
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)
PALCAT_obs_est				
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	7 (53.8%)	201 (38.1%)	5 (35.7%)	213 (38.4%)
LA	5 (38.5%)	115 (21.8%)	3 (21.4%)	123 (22.2%)
A	0 (0%)	91 (17.3%)	3 (21.4%)	94 (17.0%)
VA	1 (7.69%)	120 (22.8%)	3 (21.4%)	124 (22.4%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	0 (0%)	0 (0%)	1 (0.2%)

3.2.2 Children

1-8 years old

Percentile groups

- For infants (0-11 month) and Children (12-24 mo): Weight Percentiles were calculated by IU based on *Girls/Boys percentiles: expanded-tables (Weight-for-length)* from WHO, https://www.who.int/tools/child-growth-standards/standards/weight-for-length-height (https://www.who.int/tools/child-growth-standards/standards/weight-for-length-height).
- For Children/Teens 2 – 18: BMI Percentiles were calculated by IU based on sex, age growth charts from CDC https://www.cdc.gov/growthcharts/percentile_data_files.htm (https://www.cdc.gov/growthcharts/percentile_data_files.htm).

3.2.2.1 Female

	<5th (N=9)	5th to 85th (N=457)	85th to 95th (N=74)	>95th (N=87)	Overall (N=634)
Age (years)					
N	9	457	74	87	634
Mean (SD)	4.65 (1.91)	5.14 (2.36)	5.41 (2.29)	5.77 (1.57)	5.26 (2.26)
Median [Min, Max]	5.59 [1.50, 7.00]	5.00 [1.00, 8.90]	5.15 [1.00, 8.90]	5.00 [1.03, 8.80]	5.00 [1.00, 8.90]
Life_Stage					
1-3 years	2 (22.2%)	121 (26.5%)	13 (17.6%)	3 (3.45%)	139 (21.9%)
4-8 years	7 (77.8%)	336 (73.5%)	61 (82.4%)	84 (96.6%)	495 (78.1%)
Sex					
F	9 (100%)	457 (100%)	74 (100%)	87 (100%)	634 (100%)
Ethnicity					
African	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
African American	0 (0%)	12 (2.63%)	2 (2.70%)	1 (1.15%)	15 (2.37%)
Asian	0 (0%)	4 (0.875%)	0 (0%)	0 (0%)	4 (0.631%)

	<5th (N=9)	5th to 85th (N=457)	85th to 95th (N=74)	>95th (N=87)	Overall (N=634)
Caucasian	3 (33.3%)	70 (15.3%)	11 (14.9%)	11 (12.6%)	100 (15.8%)
Hispanic	1 (11.1%)	10 (2.19%)	0 (0%)	0 (0%)	11 (1.74%)
Other	0 (0%)	1 (0.219%)	0 (0%)	0 (0%)	1 (0.158%)
Unknown or data not available	5 (55.6%)	360 (78.8%)	61 (82.4%)	75 (86.2%)	503 (79.3%)
Height (cm)					
N	9	457	74	87	627
Mean (SD)	102.67 (14.88)	109.40 (17.17)	112.62 (17.44)	120.05 (12.10)	111.16 (16.96)
Median [Min, Max]	105.20 [81.00, 128.00]	112.00 [71.00, 140.00]	114.00 [71.00, 143.00]	120.00 [76.00, 155.00]	114.00 [71.00, 155.00]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	7 (1.1%)
Weight (kg)					
N	9	457	74	87	634
Mean (SD)	14.11 (3.59)	19.22 (6.03)	23.64 (7.62)	32.53 (10.26)	21.57 (8.38)
Median [Min, Max]	14.50 [8.90, 20.20]	19.10 [8.20, 35.60]	23.05 [9.38, 41.10]	30.30 [10.90, 66.00]	20.60 [8.20, 66.00]
FFM (kg)					
N	6	154	21	20	208
Mean (SD)	11.79 (3.05)	12.65 (3.10)	14.90 (4.14)	18.04 (5.07)	13.54 (3.92)
Median [Min, Max]	10.67 [8.61, 15.96]	12.55 [6.15, 22.45]	15.61 [5.40, 21.48]	16.44 [12.28, 31.43]	13.42 [5.40, 31.43]
Missing	3 (33.3%)	303 (66.3%)	53 (71.6%)	67 (77.0%)	426 (67.2%)
FM (kg)					
N	6	154	21	20	208
Mean (SD)	3.04 (1.29)	4.43 (1.43)	7.12 (2.58)	12.49 (5.55)	5.59 (3.47)
Median [Min, Max]	2.96 [1.01, 4.53]	4.51 [1.12, 9.09]	6.84 [3.79, 12.82]	11.91 [5.83, 24.57]	4.73 [1.01, 24.57]
Missing	3 (33.3%)	303 (66.3%)	53 (71.6%)	67 (77.0%)	426 (67.2%)
FM_pct					
N	6	154	21	20	208
Mean (SD)	20.15 (7.17)	25.67 (4.31)	32.27 (5.52)	39.73 (7.21)	27.76 (6.77)
Median [Min, Max]	21.03 [10.48, 31.25]	25.30 [12.26, 37.97]	31.51 [22.06, 42.46]	39.51 [28.16, 58.34]	26.47 [10.48, 58.34]
Missing	3 (33.3%)	303 (66.3%)	53 (71.6%)	67 (77.0%)	426 (67.2%)
Percentile					
N	9	457	74	87	627
Mean (SD)	3.64 (0.91)	49.55 (21.36)	89.59 (2.93)	96.89 (0.59)	60.19 (27.41)
Median [Min, Max]	2.99 [2.79, 4.83]	52.19 [5.21, 84.99]	90.32 [85.00, 94.83]	97.04 [95.02, 98.45]	61.45 [2.79, 98.45]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	7 (1.1%)
TEE kcal/d					
N	9	457	74	87	634
Mean (SD)	1144.39 (242.75)	1298.19 (343.22)	1458.78 (389.29)	1661.95 (355.65)	1366.99 (372.06)
Median [Min, Max]	1175.91 [654.00, 1395.79]	1278.00 [522.00, 2425.00]	1455.39 [517.00, 2625.00]	1591.00 [922.00, 2699.00]	1345.22 [517.00, 2699.00]
BEE kcal/d					
N	4	217	33	38	294
Mean (SD)	783.28 (169.98)	903.65 (187.06)	989.82 (188.61)	1123.42 (179.59)	940.98 (200.41)
Median [Min, Max]	854.57 [531.00, 893.00]	940.00 [456.00, 1320.00]	1020.00 [579.00, 1415.00]	1148.00 [580.00, 1490.00]	970.00 [456.00, 1490.00]
Missing	5 (55.6%)	240 (52.5%)	41 (55.4%)	49 (56.3%)	340 (53.6%)
PAL					
N	4	217	33	38	294
Mean (SD)	1.38 (0.14)	1.47 (0.23)	1.52 (0.25)	1.41 (0.17)	1.46 (0.23)
Median [Min, Max]	1.38 [1.23, 1.52]	1.44 [1.02, 2.14]	1.52 [1.05, 2.15]	1.42 [1.13, 1.88]	1.44 [1.02, 2.15]
Missing	5 (55.6%)	240 (52.5%)	41 (55.4%)	49 (56.3%)	340 (53.6%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	2 (50.0%)	56 (25.8%)	5 (15.2%)	10 (26.3%)	73 (24.8%)
LA	0 (0%)	53 (24.4%)	9 (27.3%)	11 (28.9%)	74 (25.2%)
A	2 (50.0%)	49 (22.6%)	6 (18.2%)	14 (36.8%)	72 (24.5%)
VA	0 (0%)	59 (27.2%)	13 (39.4%)	3 (7.89%)	75 (25.5%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	5 (55.6%)	240 (52.5%)	41 (55.4%)	49 (56.3%)	340 (53.6%)
BMR_kcal_Schofield					

	<5th (N=9)	5th to 85th (N=457)	85th to 95th (N=74)	>95th (N=87)	Overall (N=634)
N	9	457	74	87	627
Mean (SD)	757.81 (116.67)	857.22 (158.57)	939.50 (184.68)	1114.84 (197.90)	901.25 (189.92)
Median [Min, Max]	787.45 [559.95, 921.07]	874.90 [456.00, 1198.58]	946.78 [465.43, 1300.00]	1081.14 [541.29, 1733.87]	907.38 [456.00, 1733.87]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	7 (1.1%)
PAL_obs_est					
N	9	457	74	87	629
Mean (SD)	1.45 (0.15)	1.47 (0.22)	1.51 (0.23)	1.45 (0.18)	1.47 (0.21)
Median [Min, Max]	1.48 [1.23, 1.63]	1.45 [1.02, 2.43]	1.51 [1.05, 2.21]	1.43 [1.07, 2.04]	1.45 [1.02, 2.43]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	5 (0.8%)
PALCAT_obs_est					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	3 (33.3%)	103 (22.5%)	12 (16.2%)	16 (18.4%)	134 (21.3%)
LA	0 (0%)	115 (25.2%)	16 (21.6%)	31 (35.6%)	163 (25.9%)
A	4 (44.4%)	123 (26.9%)	22 (29.7%)	25 (28.7%)	175 (27.8%)
VA	2 (22.2%)	116 (25.4%)	24 (32.4%)	15 (17.2%)	157 (25.0%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	5 (0.8%)

3.2.2.2 Male

	<5th (N=8)	5th to 85th (N=328)	85th to 95th (N=52)	>95th (N=85)	Overall (N=487)
Age (years)					
N	8	328	52	85	487
Mean (SD)	5.02 (2.39)	4.53 (1.89)	5.12 (1.73)	5.25 (1.24)	4.78 (1.81)
Median [Min, Max]	5.07 [2.00, 8.40]	5.00 [1.00, 8.50]	5.00 [1.01, 8.00]	5.00 [1.02, 8.40]	5.00 [1.00, 8.50]
Life_Stage					
1-3 years	2 (25.0%)	89 (27.1%)	7 (13.5%)	6 (7.06%)	104 (21.4%)
4-8 years	6 (75.0%)	239 (72.9%)	45 (86.5%)	79 (92.9%)	383 (78.6%)
Sex					
M	8 (100%)	328 (100%)	52 (100%)	85 (100%)	487 (100%)
Ethnicity					
African	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
African American	1 (12.5%)	23 (7.01%)	5 (9.62%)	3 (3.53%)	32 (6.57%)
Asian	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Caucasian	2 (25.0%)	57 (17.4%)	5 (9.62%)	12 (14.1%)	88 (18.1%)
Hispanic	0 (0%)	13 (3.96%)	2 (3.85%)	8 (9.41%)	23 (4.72%)
Other	0 (0%)	1 (0.305%)	1 (1.92%)	0 (0%)	2 (0.411%)
Unknown or data not available	5 (62.5%)	234 (71.3%)	39 (75.0%)	62 (72.9%)	342 (70.2%)
Height (cm)					
N	8	328	52	85	473
Mean (SD)	108.83 (16.83)	106.60 (15.17)	112.87 (13.72)	117.88 (11.24)	109.36 (15.04)
Median [Min, Max]	112.83 [84.80, 132.00]	110.00 [72.00, 138.00]	115.00 [76.10, 138.00]	118.10 [75.00, 153.00]	112.00 [72.00, 153.00]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	14 (2.9%)
Weight (kg)					
N	8	328	52	85	487
Mean (SD)	16.55 (4.63)	18.13 (4.90)	22.85 (5.65)	30.07 (8.76)	20.92 (7.46)
Median [Min, Max]	17.30 [10.44, 24.00]	18.55 [8.40, 31.90]	22.60 [10.68, 36.00]	28.60 [11.10, 68.40]	20.00 [8.40, 68.40]
FFM (kg)					
N	7	154	21	27	223
Mean (SD)	13.95 (3.48)	13.83 (3.74)	14.67 (3.75)	18.44 (4.70)	14.83 (4.27)
Median [Min, Max]	13.82 [8.67, 19.48]	13.74 [6.47, 24.03]	15.09 [6.68, 20.36]	16.88 [12.36, 28.80]	14.65 [6.47, 29.17]
Missing	1 (12.5%)	174 (53.0%)	31 (59.6%)	58 (68.2%)	264 (54.2%)
FM (kg)					
N	7	154	21	27	223
Mean (SD)	3.41 (0.98)	4.15 (1.42)	5.86 (2.37)	11.26 (5.38)	5.31 (3.37)
Median [Min, Max]	3.76 [1.76, 4.52]	4.08 [1.22, 9.01]	5.35 [3.10, 13.78]	9.11 [4.33, 20.33]	4.32 [1.22, 20.33]
Missing	1 (12.5%)	174 (53.0%)	31 (59.6%)	58 (68.2%)	264 (54.2%)

	<5th (N=8)	5th to 85th (N=328)	85th to 95th (N=52)	>95th (N=85)	Overall (N=487)
FM_pct					
N	7	154	21	27	223
Mean (SD)	19.55 (2.60)	23.05 (4.75)	28.29 (5.05)	36.36 (7.50)	25.12 (6.84)
Median [Min, Max]	19.49 [15.97, 22.81]	23.15 [10.93, 39.67]	28.33 [20.04, 42.28]	37.16 [20.16, 50.31]	23.95 [10.93, 50.31]
Missing	1 (12.5%)	174 (53.0%)	31 (59.6%)	58 (68.2%)	264 (54.2%)
Percentile					
N	8	328	52	85	473
Mean (SD)	3.49 (0.74)	47.86 (22.28)	89.61 (2.69)	96.96 (0.40)	60.52 (29.05)
Median [Min, Max]	3.08 [2.88, 4.82]	50.53 [6.03, 84.35]	89.65 [85.21, 94.72]	97.06 [95.53, 97.40]	62.14 [2.88, 97.40]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	14 (2.9%)
TEE kcal/d					
N	8	328	52	85	487
Mean (SD)	1266.26 (235.38)	1316.34 (309.87)	1512.70 (384.58)	1743.52 (348.88)	1423.48 (366.35)
Median [Min, Max]	1314.40 [935.00, 1567.88]	1330.50 [560.14, 2338.00]	1522.55 [746.55, 2975.00]	1705.00 [816.27, 2740.13]	1421.00 [560.14, 2975.00]
BEE kcal/d					
N	1	124	22	44	193
Mean (SD)	585.00 (NA)	918.35 (180.07)	1102.81 (107.55)	1200.02 (151.92)	1003.39 (207.33)
Median [Min, Max]	585.00 [585.00, 585.00]	967.50 [530.00, 1295.00]	1120.00 [806.00, 1290.63]	1215.00 [718.00, 1470.00]	1030.00 [530.00, 1470.00]
Missing	7 (87.5%)	204 (62.2%)	30 (57.7%)	41 (48.2%)	294 (60.4%)
PAL					
N	1	124	22	44	193
Mean (SD)	1.60 (NA)	1.39 (0.17)	1.45 (0.19)	1.43 (0.14)	1.40 (0.17)
Median [Min, Max]	1.60 [1.60, 1.60]	1.37 [1.02, 1.91]	1.41 [1.06, 1.81]	1.42 [1.14, 1.80]	1.38 [1.02, 1.91]
Missing	7 (87.5%)	204 (62.2%)	30 (57.7%)	41 (48.2%)	294 (60.4%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	0 (0%)	43 (34.7%)	3 (13.6%)	8 (18.2%)	54 (28.0%)
LA	0 (0%)	43 (34.7%)	10 (45.5%)	17 (38.6%)	71 (36.8%)
A	0 (0%)	24 (19.4%)	4 (18.2%)	14 (31.8%)	43 (22.3%)
VA	1 (100%)	14 (11.3%)	5 (22.7%)	5 (11.4%)	25 (13.0%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	7 (87.5%)	204 (62.2%)	30 (57.7%)	41 (48.2%)	294 (60.4%)
BMR_kcal_Schofield					
N	8	328	52	85	473
Mean (SD)	867.41 (133.57)	886.46 (154.40)	997.35 (157.72)	1150.52 (200.71)	945.78 (192.43)
Median [Min, Max]	900.94 [670.95, 1057.22]	921.09 [476.41, 1217.26]	1006.66 [538.97, 1298.26]	1135.00 [522.35, 1954.74]	947.55 [476.41, 1954.74]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	14 (2.9%)
PAL_obs_est					
N	8	328	52	85	475
Mean (SD)	1.49 (0.10)	1.45 (0.20)	1.47 (0.23)	1.47 (0.18)	1.45 (0.20)
Median [Min, Max]	1.49 [1.32, 1.62]	1.43 [0.99, 2.27]	1.45 [1.05, 2.29]	1.44 [1.07, 2.08]	1.44 [0.99, 2.29]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	12 (2.5%)
PALCAT_obs_est					
PAL<1	0 (0%)	1 (0.305%)	0 (0%)	0 (0%)	1 (0.211%)
S	0 (0%)	85 (25.9%)	9 (17.3%)	12 (14.1%)	106 (22.3%)
LA	3 (37.5%)	83 (25.3%)	16 (30.8%)	30 (35.3%)	133 (28.0%)
A	3 (37.5%)	82 (25.0%)	15 (28.8%)	24 (28.2%)	125 (26.3%)
VA	2 (25.0%)	77 (23.5%)	12 (23.1%)	19 (22.4%)	110 (23.2%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	12 (2.5%)

3.2.2.3 All

	<5th (N=17)	5th to 85th (N=785)	85th to 95th (N=126)	>95th (N=172)	Overall (N=1121)
Age (years)					
N	17	785	126	172	1121
Mean (SD)	4.83 (2.09)	4.89 (2.19)	5.29 (2.07)	5.52 (1.44)	5.05 (2.09)

	<5th (N=17)	5th to 85th (N=785)	85th to 95th (N=126)	>95th (N=172)	Overall (N=1121)
Median [Min, Max]	5.59 [1.50, 8.40]	5.00 [1.00, 8.90]	5.00 [1.00, 8.90]	5.00 [1.02, 8.80]	5.00 [1.00, 8.90]
Life_Stage					
1-3 years	4 (23.5%)	210 (26.8%)	20 (15.9%)	9 (5.23%)	243 (21.7%)
4-8 years	13 (76.5%)	575 (73.2%)	106 (84.1%)	163 (94.8%)	878 (78.3%)
Sex					
F	9 (52.9%)	457 (58.2%)	74 (58.7%)	87 (50.6%)	634 (56.6%)
M	8 (47.1%)	328 (41.8%)	52 (41.3%)	85 (49.4%)	487 (43.4%)
Ethnicity					
African	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
African American	1 (5.88%)	35 (4.46%)	7 (5.56%)	4 (2.33%)	47 (4.19%)
Asian	0 (0%)	4 (0.510%)	0 (0%)	0 (0%)	4 (0.357%)
Caucasian	5 (29.4%)	127 (16.2%)	16 (12.7%)	23 (13.4%)	188 (16.8%)
Hispanic	1 (5.88%)	23 (2.93%)	2 (1.59%)	8 (4.65%)	34 (3.03%)
Other	0 (0%)	2 (0.255%)	1 (0.794%)	0 (0%)	3 (0.268%)
Unknown or data not available	10 (58.8%)	594 (75.7%)	100 (79.4%)	137 (79.7%)	845 (75.4%)
Height (cm)					
N	17	785	126	172	1100
Mean (SD)	105.57 (15.64)	108.23 (16.41)	112.72 (15.95)	118.98 (11.70)	110.38 (16.18)
Median [Min, Max]	106.00 [81.00, 132.00]	111.00 [71.00, 140.00]	114.35 [71.00, 143.00]	119.00 [75.00, 155.00]	113.00 [71.00, 155.00]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	21 (1.9%)
Weight (kg)					
N	17	785	126	172	1121
Mean (SD)	15.26 (4.17)	18.76 (5.61)	23.31 (6.86)	31.31 (9.60)	21.29 (7.99)
Median [Min, Max]	14.70 [8.90, 24.00]	18.80 [8.20, 35.60]	22.90 [9.38, 41.10]	29.20 [10.90, 68.40]	20.30 [8.20, 68.40]
FFM (kg)					
N	13	308	42	47	431
Mean (SD)	12.96 (3.35)	13.24 (3.48)	14.78 (3.90)	18.27 (4.81)	14.20 (4.15)
Median [Min, Max]	12.94 [8.61, 19.48]	13.31 [6.15, 24.03]	15.44 [5.40, 21.48]	16.54 [12.28, 31.43]	14.09 [5.40, 31.43]
Missing	4 (23.5%)	477 (60.8%)	84 (66.7%)	125 (72.7%)	690 (61.6%)
FM (kg)					
N	13	308	42	47	431
Mean (SD)	3.24 (1.10)	4.29 (1.43)	6.49 (2.53)	11.78 (5.43)	5.44 (3.42)
Median [Min, Max]	3.33 [1.01, 4.53]	4.17 [1.12, 9.09]	6.09 [3.10, 13.78]	10.03 [4.33, 24.57]	4.62 [1.01, 24.57]
Missing	4 (23.5%)	477 (60.8%)	84 (66.7%)	125 (72.7%)	690 (61.6%)
FM_pct					
N	13	308	42	47	431
Mean (SD)	19.83 (4.99)	24.36 (4.72)	30.28 (5.60)	37.80 (7.49)	26.40 (6.92)
Median [Min, Max]	20.36 [10.48, 31.25]	24.30 [10.93, 39.67]	29.12 [20.04, 42.46]	37.83 [20.16, 58.34]	25.24 [10.48, 58.34]
Missing	4 (23.5%)	477 (60.8%)	84 (66.7%)	125 (72.7%)	690 (61.6%)
Percentile					
N	17	785	126	172	1100
Mean (SD)	3.57 (0.81)	48.84 (21.75)	89.60 (2.82)	96.92 (0.51)	60.33 (28.11)
Median [Min, Max]	3.07 [2.79, 4.83]	51.22 [5.21, 84.99]	90.02 [85.00, 94.83]	97.05 [95.02, 98.45]	61.56 [2.79, 98.45]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	21 (1.9%)
TEE kcal/d					
N	17	785	126	172	1121
Mean (SD)	1201.74 (240.07)	1305.78 (329.61)	1481.03 (386.73)	1702.26 (353.66)	1391.53 (370.49)
Median [Min, Max]	1230.38 [654.00, 1567.88]	1306.43 [522.00, 2425.00]	1480.50 [517.00, 2975.00]	1667.72 [816.27, 2740.13]	1379.00 [517.00, 2975.00]
BEE kcal/d					
N	5	341	55	82	487
Mean (SD)	743.63 (171.85)	908.99 (184.42)	1035.01 (169.41)	1164.52 (168.71)	965.71 (205.26)
Median [Min, Max]	834.13 [531.00, 893.00]	960.00 [456.00, 1320.00]	1035.00 [579.00, 1415.00]	1185.00 [580.00, 1490.00]	989.00 [456.00, 1490.00]
Missing	12 (70.6%)	444 (56.6%)	71 (56.3%)	90 (52.3%)	634 (56.6%)
PAL					
N	5	341	55	82	487
Mean (SD)	1.42 (0.16)	1.44 (0.22)	1.49 (0.23)	1.42 (0.15)	1.44 (0.21)

	<5th (N=17)	5th to 85th (N=785)	85th to 95th (N=126)	>95th (N=172)	Overall (N=1121)
Median [Min, Max]	1.48 [1.23, 1.60]	1.40 [1.02, 2.14]	1.44 [1.05, 2.15]	1.42 [1.13, 1.88]	1.41 [1.02, 2.15]
Missing	12 (70.6%)	444 (56.6%)	71 (56.3%)	90 (52.3%)	634 (56.6%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	2 (40.0%)	99 (29.0%)	8 (14.5%)	18 (22.0%)	127 (26.1%)
LA	0 (0%)	96 (28.2%)	19 (34.5%)	28 (34.1%)	145 (29.8%)
A	2 (40.0%)	73 (21.4%)	10 (18.2%)	28 (34.1%)	115 (23.6%)
VA	1 (20.0%)	73 (21.4%)	18 (32.7%)	8 (9.76%)	100 (20.5%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	12 (70.6%)	444 (56.6%)	71 (56.3%)	90 (52.3%)	634 (56.6%)
BMR_kcal_Schofield					
N	17	785	126	172	1100
Mean (SD)	809.39 (133.38)	869.44 (157.40)	963.37 (175.74)	1132.47 (199.51)	920.40 (192.19)
Median [Min, Max]	804.02 [559.95, 1057.22]	897.92 [456.00, 1217.26]	975.32 [465.43, 1300.00]	1098.85 [522.35, 1954.74]	929.20 [456.00, 1954.74]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	21 (1.9%)
PAL_obs_est					
N	17	785	126	172	1104
Mean (SD)	1.47 (0.12)	1.46 (0.21)	1.49 (0.23)	1.46 (0.18)	1.46 (0.21)
Median [Min, Max]	1.48 [1.23, 1.63]	1.44 [0.99, 2.43]	1.48 [1.05, 2.29]	1.44 [1.07, 2.08]	1.45 [0.99, 2.43]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	17 (1.5%)
PALCAT_obs_est					
PAL<1	0 (0%)	1 (0.127%)	0 (0%)	0 (0%)	1 (0.0906%)
S	3 (17.6%)	188 (23.9%)	21 (16.7%)	28 (16.3%)	240 (21.7%)
LA	3 (17.6%)	198 (25.2%)	32 (25.4%)	61 (35.5%)	296 (26.8%)
A	7 (41.2%)	205 (26.1%)	37 (29.4%)	49 (28.5%)	300 (27.2%)
VA	4 (23.5%)	193 (24.6%)	36 (28.6%)	34 (19.8%)	267 (24.2%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	17 (1.5%)

3.2.3 Teenagers

9-18 years old

3.2.3.1 Female

	5th to 85th (N=316)	85th to 95th (N=57)	>95th (N=57)	Overall (N=434)
Age (years)				
N	316	57	57	434
Mean (SD)	14.14 (2.97)	13.30 (3.08)	12.73 (3.20)	13.82 (3.06)
Median [Min, Max]	15.00 [9.00, 18.80]	12.50 [9.00, 18.00]	11.50 [9.00, 18.00]	14.35 [9.00, 18.80]
Life_Stage				
9-13 years	113 (35.8%)	33 (57.9%)	35 (61.4%)	184 (42.4%)
14-18 years	203 (64.2%)	24 (42.1%)	22 (38.6%)	250 (57.6%)
Sex				
F	316 (100%)	57 (100%)	57 (100%)	434 (100%)
Ethnicity				
African	1 (0.316%)	0 (0%)	0 (0%)	1 (0.230%)
African American	10 (3.16%)	1 (1.75%)	11 (19.3%)	22 (5.07%)
Asian	2 (0.633%)	0 (0%)	0 (0%)	2 (0.461%)
Caucasian	113 (35.8%)	17 (29.8%)	12 (21.1%)	143 (32.9%)
Hispanic	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Other	9 (2.85%)	2 (3.51%)	0 (0%)	11 (2.53%)
Unknown or data not available	181 (57.3%)	37 (64.9%)	34 (59.6%)	255 (58.8%)
Height (cm)				
N	316	57	57	430
Mean (SD)	156.90 (13.41)	155.69 (11.77)	153.80 (9.68)	156.33 (12.79)
Median [Min, Max]	160.00 [116.00, 183.70]	159.00 [130.00, 176.30]	154.00 [136.00, 179.50]	159.00 [116.00, 183.70]
Missing	0 (0%)	0 (0%)	0 (0%)	4 (0.9%)

	5th to 85th (N=316)	85th to 95th (N=57)	>95th (N=57)	Overall (N=434)
Weight (kg)				
N	316	57	57	434
Mean (SD)	49.72 (12.42)	59.67 (14.07)	74.36 (20.83)	54.17 (16.39)
Median [Min, Max]	52.01 [22.20, 79.80]	59.60 [32.50, 87.70]	72.80 [40.80, 133.20]	54.17 [22.20, 133.20]
FFM (kg)				
N	177	21	27	229
Mean (SD)	38.42 (6.68)	42.18 (7.90)	45.56 (11.37)	39.43 (7.96)
Median [Min, Max]	38.81 [14.65, 60.30]	44.58 [17.84, 53.72]	47.99 [25.83, 67.15]	39.49 [14.65, 67.15]
Missing	139 (44.0%)	36 (63.2%)	30 (52.6%)	205 (47.2%)
FM (kg)				
N	177	21	27	229
Mean (SD)	17.38 (4.71)	25.82 (6.27)	39.48 (14.42)	20.66 (9.93)
Median [Min, Max]	17.09 [6.05, 31.21]	26.28 [12.79, 34.30]	36.90 [14.62, 66.05]	17.95 [6.05, 66.05]
Missing	139 (44.0%)	36 (63.2%)	30 (52.6%)	205 (47.2%)
FM_pct				
N	177	21	27	229
Mean (SD)	30.94 (5.29)	37.84 (5.36)	45.45 (7.21)	33.25 (7.36)
Median [Min, Max]	31.06 [16.37, 42.43]	38.24 [24.90, 45.09]	46.92 [34.89, 59.57]	32.25 [16.37, 59.57]
Missing	139 (44.0%)	36 (63.2%)	30 (52.6%)	205 (47.2%)
Percentile				
N	316	57	57	430
Mean (SD)	53.13 (20.42)	90.18 (3.08)	96.87 (0.68)	63.84 (25.08)
Median [Min, Max]	55.09 [5.09, 84.96]	90.65 [85.03, 94.99]	97.10 [95.02, 97.60]	66.40 [5.09, 97.60]
Missing	0 (0%)	0 (0%)	0 (0%)	4 (0.9%)
TEE kcal/d				
N	314	57	57	432
Mean (SD)	2188.54 (493.66)	2472.83 (509.58)	2550.13 (396.31)	2271.28 (503.42)
Median [Min, Max]	2160.96 [1000.00, 4432.02]	2499.00 [1176.83, 3581.00]	2565.00 [1630.00, 3414.00]	2266.11 [1000.00, 4432.02]
Missing	2 (0.6%)	0 (0%)	0 (0%)	2 (0.5%)
BEE kcal/d				
N	178	43	30	253
Mean (SD)	1301.01 (205.55)	1441.26 (223.52)	1625.95 (193.69)	1361.81 (234.21)
Median [Min, Max]	1271.59 [881.00, 2218.00]	1448.00 [1003.82, 2172.00]	1615.00 [1271.00, 2165.36]	1324.00 [881.00, 2218.00]
Missing	138 (43.7%)	14 (24.6%)	27 (47.4%)	181 (41.7%)
PAL				
N	178	43	30	253
Mean (SD)	1.72 (0.29)	1.75 (0.35)	1.62 (0.24)	1.71 (0.29)
Median [Min, Max]	1.71 [1.02, 2.47]	1.77 [1.08, 2.46]	1.58 [1.25, 2.37]	1.69 [1.02, 2.47]
Missing	138 (43.7%)	14 (24.6%)	27 (47.4%)	181 (41.7%)
PALCAT				
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	40 (22.5%)	9 (20.9%)	5 (16.7%)	55 (21.7%)
LA	36 (20.2%)	8 (18.6%)	15 (50.0%)	59 (23.3%)
A	47 (26.4%)	6 (14.0%)	4 (13.3%)	58 (22.9%)
VA	55 (30.9%)	20 (46.5%)	6 (20.0%)	81 (32.0%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	138 (43.7%)	14 (24.6%)	27 (47.4%)	181 (41.7%)
BMR_kcal_Schofield				
N	316	57	57	430
Mean (SD)	1335.22 (153.08)	1432.29 (156.94)	1580.33 (212.93)	1380.58 (183.07)
Median [Min, Max]	1356.79 [942.38, 1703.31]	1441.62 [1133.03, 1748.45]	1566.03 [1229.50, 2196.50]	1388.83 [942.38, 2196.50]
Missing	0 (0%)	0 (0%)	0 (0%)	4 (0.9%)
PAL_obs_est				
N	314	57	57	430
Mean (SD)	1.65 (0.27)	1.72 (0.32)	1.60 (0.23)	1.65 (0.28)
Median [Min, Max]	1.64 [1.02, 2.47]	1.70 [1.08, 2.46]	1.56 [1.24, 2.37]	1.63 [1.02, 2.47]

	5th to 85th (N=316)	85th to 95th (N=57)	>95th (N=57)	Overall (N=434)
Missing	2 (0.6%)	0 (0%)	0 (0%)	4 (0.9%)
PALCAT_obs_est				
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	107 (34.1%)	12 (21.1%)	14 (24.6%)	134 (31.2%)
LA	72 (22.9%)	13 (22.8%)	22 (38.6%)	107 (24.9%)
A	70 (22.3%)	11 (19.3%)	13 (22.8%)	95 (22.1%)
VA	65 (20.7%)	21 (36.8%)	8 (14.0%)	94 (21.9%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	2 (0.6%)	0 (0%)	0 (0%)	4 (0.9%)

3.2.3.2 Male

	<5th (N=3)	5th to 85th (N=183)	85th to 95th (N=28)	>95th (N=52)	Overall (N=270)
Age (years)					
N	3	183	28	52	270
Mean (SD)	11.93 (4.41)	14.50 (2.91)	11.55 (2.67)	11.28 (2.34)	13.48 (3.13)
Median [Min, Max]	9.80 [9.00, 17.00]	15.00 [9.00, 18.90]	10.24 [9.00, 18.00]	10.00 [9.00, 18.00]	14.00 [9.00, 18.9
Life_Stage					
9-13 years	2 (66.7%)	50 (27.3%)	21 (75.0%)	43 (82.7%)	120 (44.4%)
14-18 years	1 (33.3%)	133 (72.7%)	7 (25.0%)	9 (17.3%)	150 (55.6%)
Sex					
M	3 (100%)	183 (100%)	28 (100%)	52 (100%)	270 (100%)
Ethnicity					
African	0 (0%)	1 (0.546%)	0 (0%)	0 (0%)	1 (0.370%)
African American	0 (0%)	5 (2.73%)	3 (10.7%)	8 (15.4%)	16 (5.93%)
Asian	0 (0%)	1 (0.546%)	0 (0%)	0 (0%)	1 (0.370%)
Caucasian	2 (66.7%)	104 (56.8%)	12 (42.9%)	15 (28.8%)	134 (49.6%)
Hispanic	0 (0%)	1 (0.546%)	0 (0%)	0 (0%)	1 (0.370%)
Other	1 (33.3%)	3 (1.64%)	0 (0%)	0 (0%)	4 (1.48%)
Unknown or data not available	0 (0%)	68 (37.2%)	13 (46.4%)	29 (55.8%)	113 (41.9%)
Height (cm)					
N	3	183	28	52	266
Mean (SD)	148.93 (28.68)	168.02 (17.99)	153.88 (15.19)	151.95 (11.86)	163.18 (18.21)
Median [Min, Max]	136.00 [129.00, 181.80]	173.75 [125.00, 201.00]	147.50 [135.00, 183.40]	149.00 [136.00, 187.00]	168.25 [125.00, 201
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	4 (1.5%)
Weight (kg)					
N	3	182	28	52	269
Mean (SD)	35.90 (19.69)	57.54 (16.38)	53.21 (15.52)	66.66 (19.88)	58.38 (17.66)
Median [Min, Max]	25.60 [23.50, 58.60]	61.05 [24.40, 92.67]	47.60 [34.20, 84.80]	61.70 [41.90, 125.70]	59.65 [23.50, 125.
Missing	0 (0%)	1 (0.5%)	0 (0%)	0 (0%)	1 (0.4%)
FFM (kg)					
N	3	143	19	25	194
Mean (SD)	29.86 (15.64)	49.39 (12.28)	41.97 (16.04)	44.30 (13.76)	47.29 (13.41)
Median [Min, Max]	22.52 [19.26, 47.82]	50.35 [20.37, 72.52]	35.04 [23.86, 66.90]	40.58 [24.86, 71.37]	49.09 [19.26, 72.5
Missing	0 (0%)	40 (21.9%)	9 (32.1%)	27 (51.9%)	76 (28.1%)
FM (kg)					
N	3	143	19	25	194
Mean (SD)	5.92 (3.95)	12.26 (4.32)	14.97 (4.32)	31.98 (12.16)	14.98 (8.95)
Median [Min, Max]	4.24 [3.08, 10.43]	11.91 [3.36, 28.06]	13.87 [6.81, 24.58]	31.28 [16.39, 54.33]	12.95 [3.08, 54.3
Missing	0 (0%)	40 (21.9%)	9 (32.1%)	27 (51.9%)	76 (28.1%)
FM_pct					
N	3	143	19	25	194
Mean (SD)	16.00 (3.42)	19.99 (5.40)	27.60 (8.47)	41.50 (7.18)	23.60 (9.55)
Median [Min, Max]	17.90 [12.05, 18.06]	19.79 [9.85, 39.74]	28.03 [15.14, 42.01]	41.26 [23.60, 53.92]	21.20 [9.85, 53.9
Missing	0 (0%)	40 (21.9%)	9 (32.1%)	27 (51.9%)	76 (28.1%)
Percentile					
N	3	183	28	52	266

	<5th (N=3)	5th to 85th (N=183)	85th to 95th (N=28)	>95th (N=52)	Overall (N=270)
Mean (SD)	4.44 (0.44)	50.79 (21.27)	90.12 (3.05)	96.95 (0.52)	63.43 (27.52)
Median [Min, Max]	4.58 [3.95, 4.80]	51.51 [5.02, 84.54]	90.43 [85.63, 94.85]	97.11 [95.08, 97.57]	66.04 [3.95, 97.5
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	4 (1.5%)
TEE kcal/d					
N	3	182	28	52	269
Mean (SD)	2036.95 (306.20)	2946.69 (808.80)	2653.39 (648.05)	2670.58 (452.72)	2843.67 (744.40
Median [Min, Max]	1978.97 [1763.90, 2368.00]	2900.83 [1178.00, 5555.39]	2424.76 [1808.00, 4335.60]	2511.50 [1759.56, 3801.12]	2733.29 [1178.00, 55
Missing	0 (0%)	1 (0.5%)	0 (0%)	0 (0%)	1 (0.4%)
BEE kcal/d					
N	1	60	12	25	101
Mean (SD)	1068.36 (NA)	1775.43 (435.73)	1483.49 (157.84)	1620.52 (229.10)	1685.49 (380.03
Median [Min, Max]	1068.36 [1068.36, 1068.36]	1685.50 [1025.00, 3010.00]	1433.32 [1320.00, 1865.00]	1610.00 [1206.98, 2155.00]	1629.00 [1025.00, 30
Missing	2 (66.7%)	123 (67.2%)	16 (57.1%)	27 (51.9%)	169 (62.6%)
PAL					
N	1	60	12	25	101
Mean (SD)	1.65 (NA)	1.85 (0.32)	1.62 (0.13)	1.58 (0.18)	1.75 (0.29)
Median [Min, Max]	1.65 [1.65, 1.65]	1.80 [1.03, 2.48]	1.61 [1.39, 1.94]	1.53 [1.21, 1.93]	1.71 [1.03, 2.48
Missing	2 (66.7%)	123 (67.2%)	16 (57.1%)	27 (51.9%)	169 (62.6%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	0 (0%)	7 (11.7%)	1 (8.33%)	3 (12.0%)	11 (10.9%)
LA	0 (0%)	7 (11.7%)	3 (25.0%)	12 (48.0%)	23 (22.8%)
A	1 (100%)	18 (30.0%)	7 (58.3%)	6 (24.0%)	33 (32.7%)
VA	0 (0%)	28 (46.7%)	1 (8.33%)	4 (16.0%)	34 (33.7%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	2 (66.7%)	123 (67.2%)	16 (57.1%)	27 (51.9%)	169 (62.6%)
BMR_kcal_Schofield					
N	3	182	28	52	265
Mean (SD)	1284.88 (375.36)	1660.59 (282.93)	1590.32 (259.96)	1813.91 (330.34)	1679.00 (300.60
Median [Min, Max]	1093.79 [1043.51, 1717.34]	1723.31 [1061.15, 2296.13]	1491.16 [1261.03, 2143.15]	1727.07 [1413.71, 2815.00]	1700.99 [1043.51, 28
Missing	0 (0%)	1 (0.5%)	0 (0%)	0 (0%)	5 (1.9%)
PAL_obs_est					
N	3	181	28	52	267
Mean (SD)	1.61 (0.22)	1.73 (0.28)	1.66 (0.20)	1.51 (0.22)	1.68 (0.27)
Median [Min, Max]	1.65 [1.38, 1.81]	1.72 [1.02, 2.48]	1.65 [1.33, 2.09]	1.50 [1.06, 2.00]	1.67 [1.02, 2.48
Missing	0 (0%)	2 (1.1%)	0 (0%)	0 (0%)	3 (1.1%)
PALCAT_obs_est					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	1 (33.3%)	40 (22.1%)	3 (10.7%)	19 (36.5%)	63 (23.6%)
LA	0 (0%)	45 (24.9%)	9 (32.1%)	14 (26.9%)	69 (25.8%)
A	1 (33.3%)	43 (23.8%)	10 (35.7%)	14 (26.9%)	69 (25.8%)
VA	1 (33.3%)	53 (29.3%)	6 (21.4%)	5 (9.62%)	66 (24.7%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	2 (1.1%)	0 (0%)	0 (0%)	3 (1.1%)

3.2.3.3 All

	<5th (N=3)	5th to 85th (N=499)	85th to 95th (N=85)	>95th (N=109)	Overall (N=704)
Age (years)					
N	3	499	85	109	704
Mean (SD)	11.93 (4.41)	14.27 (2.95)	12.73 (3.05)	12.04 (2.91)	13.69 (3.09)
Median [Min, Max]	9.80 [9.00, 17.00]	15.00 [9.00, 18.90]	11.90 [9.00, 18.00]	10.41 [9.00, 18.00]	14.01 [9.00, 18.9
Life_Stage					
9-13 years	2 (66.7%)	163 (32.7%)	54 (63.5%)	78 (71.6%)	304 (43.2%)
14-18 years	1 (33.3%)	336 (67.3%)	31 (36.5%)	31 (28.4%)	400 (56.8%)
Sex					
M	3 (100%)	183 (36.7%)	28 (32.9%)	52 (47.7%)	270 (38.4%)

	<5th (N=3)	5th to 85th (N=499)	85th to 95th (N=85)	>95th (N=109)	Overall (N=704)
F	0 (0%)	316 (63.3%)	57 (67.1%)	57 (52.3%)	434 (61.6%)
Ethnicity					
African	0 (0%)	2 (0.401%)	0 (0%)	0 (0%)	2 (0.284%)
African American	0 (0%)	15 (3.01%)	4 (4.71%)	19 (17.4%)	38 (5.40%)
Asian	0 (0%)	3 (0.601%)	0 (0%)	0 (0%)	3 (0.426%)
Caucasian	2 (66.7%)	217 (43.5%)	29 (34.1%)	27 (24.8%)	277 (39.3%)
Hispanic	0 (0%)	1 (0.200%)	0 (0%)	0 (0%)	1 (0.142%)
Other	1 (33.3%)	12 (2.40%)	2 (2.35%)	0 (0%)	15 (2.13%)
Unknown or data not available	0 (0%)	249 (49.9%)	50 (58.8%)	63 (57.8%)	368 (52.3%)
Height (cm)					
N	3	499	85	109	696
Mean (SD)	148.93 (28.68)	160.98 (16.15)	155.10 (12.93)	152.92 (10.76)	158.95 (15.44)
Median [Min, Max]	136.00 [129.00, 181.80]	163.00 [116.00, 201.00]	157.00 [130.00, 183.40]	151.00 [136.00, 187.00]	160.15 [116.00, 201
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	8 (1.1%)
Weight (kg)					
N	3	498	85	109	703
Mean (SD)	35.90 (19.69)	52.58 (14.48)	57.54 (14.79)	70.69 (20.65)	55.78 (17.00)
Median [Min, Max]	25.60 [23.50, 58.60]	54.50 [22.20, 92.67]	56.70 [32.50, 87.70]	66.10 [40.80, 133.20]	56.15 [22.20, 133.
Missing	0 (0%)	1 (0.2%)	0 (0%)	0 (0%)	1 (0.1%)
FFM (kg)					
N	3	320	40	52	423
Mean (SD)	29.86 (15.64)	43.32 (11.02)	42.08 (12.28)	44.95 (12.46)	43.03 (11.48)
Median [Min, Max]	22.52 [19.26, 47.82]	42.16 [14.65, 72.52]	43.69 [17.84, 66.90]	45.02 [24.86, 71.37]	42.16 [14.65, 72.5
Missing	0 (0%)	179 (35.9%)	45 (52.9%)	57 (52.3%)	281 (39.9%)
FM (kg)					
N	3	320	40	52	423
Mean (SD)	5.92 (3.95)	15.09 (5.20)	20.67 (7.68)	35.88 (13.78)	18.05 (9.90)
Median [Min, Max]	4.24 [3.08, 10.43]	14.97 [3.36, 31.21]	19.49 [6.81, 34.30]	34.43 [14.62, 66.05]	15.98 [3.08, 66.0
Missing	0 (0%)	179 (35.9%)	45 (52.9%)	57 (52.3%)	281 (39.9%)
FM_pct					
N	3	320	40	52	423
Mean (SD)	16.00 (3.42)	26.05 (7.62)	32.98 (8.64)	43.55 (7.40)	28.82 (9.70)
Median [Min, Max]	17.90 [12.05, 18.06]	26.58 [9.85, 42.43]	35.28 [15.14, 45.09]	43.20 [23.60, 59.57]	28.45 [9.85, 59.5
Missing	0 (0%)	179 (35.9%)	45 (52.9%)	57 (52.3%)	281 (39.9%)
Percentile					
N	3	499	85	109	696
Mean (SD)	4.44 (0.44)	52.27 (20.74)	90.16 (3.05)	96.91 (0.61)	63.68 (26.02)
Median [Min, Max]	4.58 [3.95, 4.80]	54.38 [5.02, 84.96]	90.65 [85.03, 94.99]	97.10 [95.02, 97.60]	66.40 [3.95, 97.6
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	8 (1.1%)
TEE kcal/d					
N	3	496	85	109	701
Mean (SD)	2036.95 (306.20)	2466.73 (726.01)	2532.31 (561.60)	2607.59 (426.47)	2490.93 (667.68
Median [Min, Max]	1978.97 [1763.90, 2368.00]	2364.09 [1000.00, 5555.39]	2482.00 [1176.83, 4335.60]	2530.00 [1630.00, 3801.12]	2397.00 [1000.00, 55
Missing	0 (0%)	3 (0.6%)	0 (0%)	0 (0%)	3 (0.4%)
BEE kcal/d					
N	1	238	55	55	354
Mean (SD)	1068.36 (NA)	1420.61 (348.48)	1450.47 (210.34)	1623.48 (208.52)	1454.16 (318.58
Median [Min, Max]	1068.36 [1068.36, 1068.36]	1324.00 [881.00, 3010.00]	1435.00 [1003.82, 2172.00]	1610.00 [1206.98, 2165.36]	1401.62 [881.00, 301
Missing	2 (66.7%)	261 (52.3%)	30 (35.3%)	54 (49.5%)	350 (49.7%)
PAL					
N	1	238	55	55	354
Mean (SD)	1.65 (NA)	1.75 (0.30)	1.72 (0.31)	1.60 (0.21)	1.72 (0.29)
Median [Min, Max]	1.65 [1.65, 1.65]	1.75 [1.02, 2.48]	1.69 [1.08, 2.46]	1.57 [1.21, 2.37]	1.70 [1.02, 2.48
Missing	2 (66.7%)	261 (52.3%)	30 (35.3%)	54 (49.5%)	350 (49.7%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

	<5th (N=3)	5th to 85th (N=499)	85th to 95th (N=85)	>95th (N=109)	Overall (N=704)
S	0 (0%)	47 (19.7%)	10 (18.2%)	8 (14.5%)	66 (18.6%)
LA	0 (0%)	43 (18.1%)	11 (20.0%)	27 (49.1%)	82 (23.2%)
A	1 (100%)	65 (27.3%)	13 (23.6%)	10 (18.2%)	91 (25.7%)
VA	0 (0%)	83 (34.9%)	21 (38.2%)	10 (18.2%)	115 (32.5%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	2 (66.7%)	261 (52.3%)	30 (35.3%)	54 (49.5%)	350 (49.7%)
BMR_kcal_Schofield					
N	3	498	85	109	695
Mean (SD)	1284.88 (375.36)	1454.13 (261.93)	1484.34 (209.10)	1691.76 (297.95)	1494.36 (275.91
Median [Min, Max]	1093.79 [1043.51, 1717.34]	1406.97 [942.38, 2296.13]	1444.45 [1133.03, 2143.15]	1632.96 [1229.50, 2815.00]	1444.49 [942.38, 281
Missing	0 (0%)	1 (0.2%)	0 (0%)	0 (0%)	9 (1.3%)
PAL_obs_est					
N	3	495	85	109	697
Mean (SD)	1.61 (0.22)	1.68 (0.28)	1.70 (0.28)	1.56 (0.23)	1.66 (0.27)
Median [Min, Max]	1.65 [1.38, 1.81]	1.66 [1.02, 2.48]	1.68 [1.08, 2.46]	1.56 [1.06, 2.37]	1.64 [1.02, 2.48]
Missing	0 (0%)	4 (0.8%)	0 (0%)	0 (0%)	7 (1.0%)
PALCAT_obs_est					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	1 (33.3%)	147 (29.7%)	15 (17.6%)	33 (30.3%)	197 (28.3%)
LA	0 (0%)	117 (23.6%)	22 (25.9%)	36 (33.0%)	176 (25.3%)
A	1 (33.3%)	113 (22.8%)	21 (24.7%)	27 (24.8%)	164 (23.5%)
VA	1 (33.3%)	118 (23.8%)	27 (31.8%)	13 (11.9%)	160 (23.0%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	4 (0.8%)	0 (0%)	0 (0%)	7 (1.0%)

3.2.4 Adults

19+ years old

3.2.4.1 Female

	< 18.5 kg/m2 (N=48)	>= 18.5 & <25 kg/m2 (N=1436)	>= 25 & <30 kg/m2 (N=1140)	>= 30 & <35 kg/m2 (N=588)	>= 35 & <40 kg/m (N=241)
Age (years)					
N	48	1436	1140	588	241
Mean (SD)	45.21 (21.57)	51.39 (21.34)	55.90 (19.17)	55.94 (17.51)	56.01 (16.76)
Median [Min, Max]	33.50 [19.00, 86.00]	48.00 [19.00, 98.00]	61.00 [19.00, 97.00]	60.00 [19.00, 95.00]	60.00 [20.00, 90.0
Life_Stage					
19-30 years	18 (37.5%)	353 (24.6%)	151 (13.2%)	62 (10.5%)	26 (10.8%)
31-50 years	13 (27.1%)	387 (26.9%)	317 (27.8%)	158 (26.9%)	61 (25.3%)
51-70 years	5 (10.4%)	335 (23.3%)	345 (30.3%)	232 (39.5%)	107 (44.4%)
>=71 years	12 (25.0%)	361 (25.1%)	327 (28.7%)	136 (23.1%)	47 (19.5%)
Sex					
F	48 (100%)	1436 (100%)	1140 (100%)	588 (100%)	241 (100%)
Ethnicity					
African	0 (0%)	1 (0.0696%)	0 (0%)	0 (0%)	0 (0%)
African American	6 (12.5%)	117 (8.15%)	177 (15.5%)	134 (22.8%)	72 (29.9%)
Asian	3 (6.25%)	65 (4.53%)	23 (2.02%)	3 (0.510%)	1 (0.415%)
Caucasian	27 (56.3%)	804 (56.0%)	620 (54.4%)	277 (47.1%)	102 (42.3%)
Hispanic	2 (4.17%)	73 (5.08%)	115 (10.1%)	79 (13.4%)	37 (15.4%)
Other	0 (0%)	13 (0.905%)	6 (0.526%)	2 (0.340%)	2 (0.830%)
Unknown or data not available	10 (20.8%)	363 (25.3%)	199 (17.5%)	93 (15.8%)	27 (11.2%)
Height (cm)					
N	48	1436	1140	588	241
Mean (SD)	164.28 (8.04)	163.16 (7.32)	161.97 (6.91)	161.48 (6.66)	161.13 (6.96)
Median [Min, Max]	163.00 [149.40, 186.00]	163.00 [142.00, 195.00]	162.00 [140.70, 196.00]	161.00 [145.00, 181.55]	161.00 [144.00, 177
Weight (kg)					
N	48	1436	1140	588	241
Mean (SD)	48.68 (5.10)	59.78 (6.76)	71.51 (7.00)	84.08 (7.78)	96.81 (9.42)

	< 18.5 kg/m2 (N=48)	>= 18.5 & <25 kg/m2 (N=1436)	>= 25 & <30 kg/m2 (N=1140)	>= 30 & <35 kg/m2 (N=588)	>= 35 & <40 kg/n (N=241)
Median [Min, Max]	47.68 [37.80, 62.88]	59.70 [41.50, 81.94]	71.40 [50.00, 104.40]	83.65 [65.50, 108.30]	96.40 [73.00, 123.]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
FFM (kg)					
N	48	1201	1018	531	234
Mean (SD)	36.55 (4.79)	39.56 (5.05)	42.18 (5.04)	45.82 (5.83)	48.95 (6.33)
Median [Min, Max]	36.16 [28.43, 52.26]	39.30 [21.11, 61.42]	41.72 [28.79, 64.94]	45.29 [32.67, 81.31]	48.27 [32.51, 74.4
Missing	0 (0%)	235 (16.4%)	122 (10.7%)	57 (9.7%)	7 (2.9%)
FM (kg)					
N	48	1201	1018	531	234
Mean (SD)	12.14 (2.16)	20.42 (4.77)	29.21 (4.80)	38.05 (5.14)	47.55 (6.59)
Median [Min, Max]	12.37 [8.18, 17.35]	20.56 [4.49, 35.39]	29.11 [10.27, 58.63]	37.93 [9.69, 52.73]	47.67 [18.03, 76.1
Missing	0 (0%)	235 (16.4%)	122 (10.7%)	57 (9.7%)	7 (2.9%)
FM_pct					
N	48	1201	1018	531	234
Mean (SD)	25.05 (4.34)	33.87 (6.08)	40.85 (4.87)	45.38 (4.51)	49.24 (4.61)
Median [Min, Max]	25.50 [15.27, 36.39]	34.57 [6.90, 58.11]	41.35 [15.70, 56.67]	45.51 [10.64, 56.30]	49.41 [19.49, 70.0
Missing	0 (0%)	235 (16.4%)	122 (10.7%)	57 (9.7%)	7 (2.9%)
BMI					
N	48	1436	1140	588	241
Mean (SD)	17.67 (0.86)	22.39 (1.71)	27.22 (1.42)	32.18 (1.41)	37.20 (1.39)
Median [Min, Max]	18.05 [14.69, 18.48]	22.65 [18.50, 25.00]	27.01 [25.00, 30.00]	32.10 [30.00, 34.93]	37.05 [35.00, 39.9
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
TEE kcal/d					
N	48	1435	1137	587	241
Mean (SD)	1952.30 (351.91)	2087.69 (380.45)	2169.12 (364.12)	2360.53 (428.66)	2441.84 (399.04
Median [Min, Max]	1897.33 [1263.87, 3104.72]	2058.45 [918.32, 3529.00]	2149.83 [833.81, 3706.98]	2326.95 [1060.91, 4450.48]	2400.23 [1568.23, 36
Missing	0 (0%)	1 (0.1%)	3 (0.3%)	1 (0.2%)	0 (0%)
BEE kcal/d					
N	19	543	419	234	81
Mean (SD)	1173.95 (175.54)	1266.81 (178.41)	1312.99 (185.60)	1468.60 (220.28)	1501.06 (220.37
Median [Min, Max]	1147.23 [834.58, 1441.20]	1266.73 [783.96, 1924.12]	1305.00 [874.78, 1860.00]	1456.58 [905.85, 1983.00]	1496.21 [1087.50, 21
Missing	29 (60.4%)	893 (62.2%)	721 (63.2%)	354 (60.2%)	160 (66.4%)
PAL					
N	19	542	416	234	81
Mean (SD)	1.82 (0.32)	1.71 (0.28)	1.68 (0.25)	1.67 (0.23)	1.62 (0.22)
Median [Min, Max]	1.78 [1.34, 2.45]	1.70 [1.01, 2.48]	1.67 [1.00, 2.38]	1.67 [1.04, 2.35]	1.59 [1.05, 2.20
Missing	29 (60.4%)	894 (62.3%)	724 (63.5%)	354 (60.2%)	160 (66.4%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	5 (26.3%)	127 (23.4%)	113 (27.2%)	55 (23.5%)	26 (32.1%)
LA	4 (21.1%)	131 (24.2%)	103 (24.8%)	64 (27.4%)	27 (33.3%)
A	1 (5.26%)	123 (22.7%)	104 (25.0%)	67 (28.6%)	13 (16.0%)
VA	9 (47.4%)	161 (29.7%)	96 (23.1%)	48 (20.5%)	15 (18.5%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	29 (60.4%)	894 (62.3%)	724 (63.5%)	354 (60.2%)	160 (66.4%)
BMR_kcal_Schofield					
N	48	1436	1140	588	241
Mean (SD)	1210.00 (99.64)	1299.08 (111.09)	1384.22 (120.62)	1487.89 (131.72)	1595.51 (160.51
Median [Min, Max]	1221.42 [1000.33, 1481.21]	1302.36 [1007.09, 1746.45]	1386.53 [1086.95, 1798.19]	1480.23 [1207.81, 1944.36]	1587.19 [1276.13, 22
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
PAL_obs_est					
N	48	1435	1137	587	241
Mean (SD)	1.66 (0.28)	1.63 (0.26)	1.60 (0.23)	1.62 (0.22)	1.57 (0.22)
Median [Min, Max]	1.63 [1.15, 2.45]	1.61 [0.81, 2.48]	1.59 [0.70, 2.38]	1.60 [0.75, 2.45]	1.55 [1.05, 2.20
Missing	0 (0%)	1 (0.1%)	3 (0.3%)	1 (0.2%)	0 (0%)
PALCAT_obs_est					

	< 18.5 kg/m2 (N=48)	>= 18.5 & <25 kg/m2 (N=1436)	>= 25 & <30 kg/m2 (N=1140)	>= 30 & <35 kg/m2 (N=588)	>= 35 & <40 kg/m (N=241)
PAL<1	0 (0%)	5 (0.348%)	2 (0.176%)	1 (0.170%)	0 (0%)
S	19 (39.6%)	520 (36.2%)	436 (38.3%)	207 (35.3%)	110 (45.6%)
LA	9 (18.8%)	367 (25.6%)	328 (28.8%)	164 (27.9%)	69 (28.6%)
A	11 (22.9%)	279 (19.4%)	215 (18.9%)	138 (23.5%)	34 (14.1%)
VA	9 (18.8%)	264 (18.4%)	156 (13.7%)	77 (13.1%)	28 (11.6%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	1 (0.1%)	3 (0.3%)	1 (0.2%)	0 (0%)

3.2.4.2 Male

	< 18.5 kg/m2 (N=20)	>= 18.5 & <25 kg/m2 (N=698)	>= 25 & <30 kg/m2 (N=761)	>= 30 & <35 kg/m2 (N=271)	>= 35 & <40 kg/n (N=82)
Age (years)					
N	20	698	761	271	82
Mean (SD)	56.95 (22.87)	47.25 (21.82)	53.08 (17.67)	52.22 (16.32)	44.49 (13.69)
Median [Min, Max]	66.50 [20.00, 83.00]	40.00 [19.00, 101.00]	50.64 [19.00, 96.00]	51.00 [19.00, 90.00]	42.00 [22.00, 78.0
Life_Stage					
19-30 years	5 (25.0%)	210 (30.1%)	92 (12.1%)	29 (10.7%)	10 (12.2%)
31-50 years	1 (5.00%)	235 (33.7%)	291 (38.2%)	103 (38.0%)	50 (61.0%)
51-70 years	7 (35.0%)	96 (13.8%)	218 (28.6%)	92 (33.9%)	17 (20.7%)
>=71 years	7 (35.0%)	157 (22.5%)	160 (21.0%)	47 (17.3%)	5 (6.10%)
Sex					
M	20 (100%)	698 (100%)	761 (100%)	271 (100%)	82 (100%)
Ethnicity					
African	0 (0%)	2 (0.287%)	1 (0.131%)	0 (0%)	0 (0%)
African American	7 (35.0%)	47 (6.73%)	66 (8.67%)	38 (14.0%)	13 (15.9%)
Asian	7 (35.0%)	49 (7.02%)	30 (3.94%)	6 (2.21%)	1 (1.22%)
Caucasian	4 (20.0%)	339 (48.6%)	435 (57.2%)	129 (47.6%)	40 (48.8%)
Hispanic	2 (10.0%)	32 (4.58%)	66 (8.67%)	42 (15.5%)	12 (14.6%)
Other	0 (0%)	2 (0.287%)	6 (0.788%)	0 (0%)	0 (0%)
Unknown or data not available	0 (0%)	227 (32.5%)	157 (20.6%)	56 (20.7%)	16 (19.5%)
Height (cm)					
N	20	698	761	271	82
Mean (SD)	173.15 (7.40)	176.67 (7.59)	175.58 (7.54)	174.68 (7.28)	177.28 (7.60)
Median [Min, Max]	174.00 [159.90, 186.00]	177.00 [151.70, 202.50]	175.50 [154.60, 202.40]	175.00 [147.00, 189.90]	177.00 [159.00, 19:
Weight (kg)					
N	19	698	761	271	82
Mean (SD)	52.22 (6.47)	71.17 (7.38)	83.70 (8.35)	97.76 (9.79)	115.27 (10.67)
Median [Min, Max]	51.90 [37.20, 64.30]	71.45 [48.40, 99.99]	83.20 [60.80, 112.00]	97.60 [65.00, 123.30]	114.90 [93.30, 141
Missing	1 (5.0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
FFM (kg)					
N	20	530	649	219	60
Mean (SD)	43.03 (5.96)	54.53 (7.72)	58.24 (7.27)	62.50 (7.62)	70.10 (8.88)
Median [Min, Max]	42.89 [28.87, 53.31]	54.08 [30.34, 80.05]	57.97 [38.94, 96.86]	61.66 [38.76, 80.47]	68.46 [52.57, 90.6
Missing	0 (0%)	168 (24.1%)	112 (14.7%)	52 (19.2%)	22 (26.8%)
FM (kg)					
N	20	530	649	219	60
Mean (SD)	9.34 (2.48)	16.84 (5.26)	25.47 (5.78)	34.59 (6.50)	44.75 (7.76)
Median [Min, Max]	9.40 [4.04, 12.93]	17.07 [2.23, 37.38]	25.36 [2.36, 53.50]	34.58 [17.80, 53.18]	45.01 [27.66, 64.0
Missing	0 (0%)	168 (24.1%)	112 (14.7%)	52 (19.2%)	22 (26.8%)
FM_pct					
N	20	530	649	219	60
Mean (SD)	17.93 (4.56)	23.61 (6.96)	30.38 (5.83)	35.56 (5.39)	38.93 (5.34)
Median [Min, Max]	18.26 [7.05, 24.64]	24.09 [3.20, 50.99]	30.57 [2.91, 55.72]	35.56 [19.69, 56.19]	39.72 [27.83, 54.5
Missing	0 (0%)	168 (24.1%)	112 (14.7%)	52 (19.2%)	22 (26.8%)
BMI					
N	20	698	761	271	82
Mean (SD)	17.42 (1.28)	22.76 (1.53)	27.13 (1.42)	32.06 (1.47)	36.89 (1.39)

	< 18.5 kg/m2 (N=20)	>= 18.5 & <25 kg/m2 (N=698)	>= 25 & <30 kg/m2 (N=761)	>= 30 & <35 kg/m2 (N=271)	>= 35 & <40 kg/n (N=82)
Median [Min, Max]	18.03 [14.33, 18.47]	23.06 [18.50, 25.00]	27.00 [25.00, 30.00]	31.96 [30.00, 34.95]	36.52 [35.12, 39.9
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
TEE kcal/d					
N	20	696	760	270	82
Mean (SD)	2069.27 (423.47)	2756.21 (582.62)	2854.34 (524.46)	3087.90 (589.01)	3562.78 (721.42
Median [Min, Max]	2103.26 [1334.62, 2944.24]	2738.77 [1327.74, 4879.37]	2828.21 [1181.61, 5237.61]	3067.25 [1628.02, 4874.75]	3358.30 [2420.31, 54
Missing	0 (0%)	2 (0.3%)	1 (0.1%)	1 (0.4%)	0 (0%)
BEE kcal/d					
N	9	404	390	153	42
Mean (SD)	1246.66 (256.00)	1603.53 (267.04)	1650.31 (262.54)	1751.93 (279.45)	2037.41 (294.19
Median [Min, Max]	1319.31 [920.17, 1711.28]	1587.00 [884.08, 3017.00]	1646.77 [1022.94, 2512.00]	1756.73 [1022.94, 2588.43]	2052.50 [1424.51, 25
Missing	11 (55.0%)	294 (42.1%)	371 (48.8%)	118 (43.5%)	40 (48.8%)
PAL					
N	9	403	390	153	42
Mean (SD)	1.52 (0.28)	1.74 (0.27)	1.73 (0.26)	1.75 (0.30)	1.76 (0.27)
Median [Min, Max]	1.45 [1.27, 2.06]	1.73 [1.02, 2.47]	1.70 [1.04, 2.46]	1.69 [1.15, 2.46]	1.72 [1.03, 2.24
Missing	11 (55.0%)	295 (42.3%)	371 (48.8%)	118 (43.5%)	40 (48.8%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	7 (77.8%)	85 (21.1%)	83 (21.3%)	35 (22.9%)	8 (19.0%)
LA	0 (0%)	81 (20.1%)	94 (24.1%)	39 (25.5%)	9 (21.4%)
A	0 (0%)	107 (26.6%)	95 (24.4%)	27 (17.6%)	11 (26.2%)
VA	2 (22.2%)	130 (32.3%)	118 (30.3%)	52 (34.0%)	14 (33.3%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	11 (55.0%)	295 (42.3%)	371 (48.8%)	118 (43.5%)	40 (48.8%)
BMR_kcal_Schofield					
N	19	698	761	271	82
Mean (SD)	1379.31 (160.02)	1649.16 (170.54)	1761.76 (184.25)	1920.46 (195.14)	2170.24 (204.83
Median [Min, Max]	1358.27 [1069.83, 1609.93]	1686.97 [1114.38, 2190.97]	1791.54 [1220.97, 2197.18]	1952.21 [1185.22, 2360.00]	2186.62 [1567.09, 26
Missing	1 (5.0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
PAL_obs_est					
N	20	696	760	270	82
Mean (SD)	1.60 (0.29)	1.70 (0.27)	1.66 (0.25)	1.68 (0.28)	1.68 (0.29)
Median [Min, Max]	1.48 [1.27, 2.21]	1.68 [0.96, 2.47]	1.64 [0.72, 2.46]	1.64 [1.05, 2.46]	1.60 [1.03, 2.37
Missing	0 (0%)	2 (0.3%)	1 (0.1%)	1 (0.4%)	0 (0%)
PALCAT_obs_est					
PAL<1	0 (0%)	3 (0.431%)	1 (0.132%)	0 (0%)	0 (0%)
S	12 (60.0%)	184 (26.4%)	236 (31.1%)	82 (30.4%)	27 (32.9%)
LA	1 (5.00%)	156 (22.4%)	201 (26.4%)	74 (27.4%)	21 (25.6%)
A	1 (5.00%)	170 (24.4%)	158 (20.8%)	48 (17.8%)	14 (17.1%)
VA	6 (30.0%)	183 (26.3%)	164 (21.6%)	66 (24.4%)	20 (24.4%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	2 (0.3%)	1 (0.1%)	1 (0.4%)	0 (0%)

3.2.4.3 All

	< 18.5 kg/m2 (N=68)	>= 18.5 & <25 kg/m2 (N=2134)	>= 25 & <30 kg/m2 (N=1901)	>= 30 & <35 kg/m2 (N=859)	>= 35 & <40 kg/n (N=323)
Age (years)					
N	68	2134	1901	859	323
Mean (SD)	48.66 (22.45)	50.03 (21.58)	54.77 (18.63)	54.77 (17.22)	53.08 (16.79)
Median [Min, Max]	44.50 [19.00, 86.00]	45.17 [19.00, 101.00]	56.00 [19.00, 97.00]	56.00 [19.00, 95.00]	53.00 [20.00, 90.0
Life_Stage					
19-30 years	23 (33.8%)	563 (26.4%)	243 (12.8%)	91 (10.6%)	36 (11.1%)
31-50 years	14 (20.6%)	622 (29.1%)	608 (32.0%)	261 (30.4%)	111 (34.4%)
51-70 years	12 (17.6%)	431 (20.2%)	563 (29.6%)	324 (37.7%)	124 (38.4%)
>=71 years	19 (27.9%)	518 (24.3%)	487 (25.6%)	183 (21.3%)	52 (16.1%)
Sex					

	< 18.5 kg/m2 (N=68)	>= 18.5 & <25 kg/m2 (N=2134)	>= 25 & <30 kg/m2 (N=1901)	>= 30 & <35 kg/m2 (N=859)	>= 35 & <40 kg/n (N=323)
F	48 (70.6%)	1436 (67.3%)	1140 (60.0%)	588 (68.5%)	241 (74.6%)
M	20 (29.4%)	698 (32.7%)	761 (40.0%)	271 (31.5%)	82 (25.4%)
Ethnicity					
African	0 (0%)	3 (0.141%)	1 (0.0526%)	0 (0%)	0 (0%)
African American	13 (19.1%)	164 (7.69%)	243 (12.8%)	172 (20.0%)	85 (26.3%)
Asian	10 (14.7%)	114 (5.34%)	53 (2.79%)	9 (1.05%)	2 (0.619%)
Caucasian	31 (45.6%)	1143 (53.6%)	1055 (55.5%)	406 (47.3%)	142 (44.0%)
Hispanic	4 (5.88%)	105 (4.92%)	181 (9.52%)	121 (14.1%)	49 (15.2%)
Other	0 (0%)	15 (0.703%)	12 (0.631%)	2 (0.233%)	2 (0.619%)
Unknown or data not available	10 (14.7%)	590 (27.6%)	356 (18.7%)	149 (17.3%)	43 (13.3%)
Height (cm)					
N	68	2134	1901	859	323
Mean (SD)	166.89 (8.80)	167.58 (9.75)	167.42 (9.79)	165.64 (9.20)	165.23 (10.01)
Median [Min, Max]	167.00 [149.40, 186.00]	167.00 [142.00, 202.50]	167.00 [140.70, 202.40]	165.00 [145.00, 189.90]	164.00 [144.00, 193
Weight (kg)					
N	67	2134	1901	859	323
Mean (SD)	49.68 (5.70)	63.51 (8.78)	76.39 (9.64)	88.40 (10.58)	101.50 (12.63)
Median [Min, Max]	49.20 [37.20, 64.30]	62.90 [41.50, 99.99]	75.80 [50.00, 112.00]	86.90 [65.00, 123.30]	99.40 [73.00, 141.
Missing	1 (1.5%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
FFM (kg)					
N	68	1731	1667	750	294
Mean (SD)	38.46 (5.92)	44.15 (9.14)	48.43 (9.87)	50.69 (9.93)	53.27 (10.98
Median [Min, Max]	37.25 [28.43, 53.31]	41.96 [21.11, 80.05]	45.87 [28.79, 96.86]	48.22 [32.67, 81.31]	50.01 [32.51, 90.6
Missing	0 (0%)	403 (18.9%)	234 (12.3%)	109 (12.7%)	29 (9.0%)
FM (kg)					
N	68	1731	1667	750	294
Mean (SD)	11.32 (2.58)	19.32 (5.20)	27.75 (5.51)	37.04 (5.79)	46.98 (6.92)
Median [Min, Max]	11.42 [4.04, 17.35]	19.66 [2.23, 37.38]	27.68 [2.36, 58.63]	37.05 [9.69, 53.18]	47.18 [18.03, 76.1
Missing	0 (0%)	403 (18.9%)	234 (12.3%)	109 (12.7%)	29 (9.0%)
FM_pct					
N	68	1731	1667	750	294
Mean (SD)	22.96 (5.46)	30.73 (7.93)	36.77 (7.33)	42.51 (6.54)	47.14 (6.32)
Median [Min, Max]	23.19 [7.05, 36.39]	31.61 [3.20, 58.11]	37.57 [2.91, 56.67]	43.91 [10.64, 56.30]	48.33 [19.49, 70.0
Missing	0 (0%)	403 (18.9%)	234 (12.3%)	109 (12.7%)	29 (9.0%)
BMI					
N	68	2134	1901	859	323
Mean (SD)	17.60 (1.00)	22.51 (1.66)	27.18 (1.42)	32.15 (1.43)	37.12 (1.39)
Median [Min, Max]	18.03 [14.33, 18.48]	22.79 [18.50, 25.00]	27.00 [25.00, 30.00]	32.04 [30.00, 34.95]	37.00 [35.00, 39.9
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
TEE kcal/d					
N	68	2131	1897	857	323
Mean (SD)	1986.70 (374.98)	2306.03 (553.66)	2443.64 (549.86)	2589.69 (590.86)	2726.41 (698.82
Median [Min, Max]	1952.99 [1263.87, 3104.72]	2213.64 [918.32, 4879.37]	2341.08 [833.81, 5237.61]	2493.79 [1060.91, 4874.75]	2548.16 [1568.23, 54
Missing	0 (0%)	3 (0.1%)	4 (0.2%)	2 (0.2%)	0 (0%)
BEE kcal/d					
N	28	947	809	387	123
Mean (SD)	1197.32 (202.87)	1410.46 (276.37)	1475.61 (281.87)	1580.61 (281.57)	1684.20 (355.17
Median [Min, Max]	1157.98 [834.58, 1711.28]	1379.06 [783.96, 3017.00]	1441.20 [874.78, 2512.00]	1573.00 [905.85, 2588.43]	1641.97 [1087.50, 25
Missing	40 (58.8%)	1187 (55.6%)	1092 (57.4%)	472 (54.9%)	200 (61.9%)
PAL					
N	28	945	806	387	123
Mean (SD)	1.72 (0.34)	1.73 (0.28)	1.70 (0.26)	1.70 (0.27)	1.67 (0.25)
Median [Min, Max]	1.62 [1.27, 2.45]	1.71 [1.01, 2.48]	1.68 [1.00, 2.46]	1.68 [1.04, 2.46]	1.61 [1.03, 2.24
Missing	40 (58.8%)	1189 (55.7%)	1095 (57.6%)	472 (54.9%)	200 (61.9%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

	< 18.5 kg/m2 (N=68)	>= 18.5 & <25 kg/m2 (N=2134)	>= 25 & <30 kg/m2 (N=1901)	>= 30 & <35 kg/m2 (N=859)	>= 35 & <40 kg/m (N=323)
S	12 (42.9%)	212 (22.4%)	196 (24.3%)	90 (23.3%)	34 (27.6%)
LA	4 (14.3%)	212 (22.4%)	197 (24.4%)	103 (26.6%)	36 (29.3%)
A	1 (3.57%)	230 (24.3%)	199 (24.7%)	94 (24.3%)	24 (19.5%)
VA	11 (39.3%)	291 (30.8%)	214 (26.6%)	100 (25.8%)	29 (23.6%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	40 (58.8%)	1189 (55.7%)	1095 (57.6%)	472 (54.9%)	200 (61.9%)
BMR_kcal_Schofield					
N	67	2134	1901	859	323
Mean (SD)	1258.01 (141.30)	1413.58 (211.65)	1535.36 (237.77)	1624.36 (253.60)	1741.42 (304.17
Median [Min, Max]	1243.57 [1000.33, 1609.93]	1356.13 [1007.09, 2190.97]	1463.60 [1086.95, 2197.18]	1550.07 [1185.22, 2360.00]	1635.05 [1276.13, 26
Missing	1 (1.5%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
PAL_obs_est					
N	68	2131	1897	857	323
Mean (SD)	1.64 (0.28)	1.65 (0.26)	1.63 (0.24)	1.64 (0.25)	1.60 (0.24)
Median [Min, Max]	1.60 [1.15, 2.45]	1.63 [0.81, 2.48]	1.61 [0.70, 2.46]	1.61 [0.75, 2.46]	1.56 [1.03, 2.37
Missing	0 (0%)	3 (0.1%)	4 (0.2%)	2 (0.2%)	0 (0%)
PALCAT_obs_est					
PAL<1	0 (0%)	8 (0.375%)	3 (0.158%)	1 (0.117%)	0 (0%)
S	31 (45.6%)	704 (33.0%)	672 (35.4%)	289 (33.7%)	137 (42.4%)
LA	10 (14.7%)	523 (24.5%)	529 (27.9%)	238 (27.8%)	90 (27.9%)
A	12 (17.6%)	449 (21.1%)	373 (19.7%)	186 (21.7%)	48 (14.9%)
VA	15 (22.1%)	447 (21.0%)	320 (16.9%)	143 (16.7%)	48 (14.9%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	3 (0.1%)	4 (0.2%)	2 (0.2%)	0 (0%)

3.2.5 Pregnant or Lactating women

	< 18.5 kg/m2 (N=18)	>= 18.5 & <25 kg/m2 (N=366)	>= 25 & <30 kg/m2 (N=150)	>= 30 & <35 kg/m2 (N=101)	>= 35 & <40 kg/m2 (N=74)
Sex					
F	18 (100%)	366 (100%)	150 (100%)	101 (100%)	74 (100%)
Pregnant					
No	18 (100%)	209 (57.1%)	52 (34.7%)	23 (22.8%)	21 (28.4%)
Yes	0 (0%)	157 (42.9%)	98 (65.3%)	78 (77.2%)	53 (71.6%)
Lactating					
No	11 (61.1%)	248 (67.8%)	122 (81.3%)	80 (79.2%)	55 (74.3%)
Yes	7 (38.9%)	118 (32.2%)	28 (18.7%)	21 (20.8%)	19 (25.7%)
P_stage					
Lactating 1-3 mo	3 (16.7%)	68 (18.6%)	13 (8.67%)	6 (5.94%)	0 (0%)
Lactating 4-6 mo	4 (22.2%)	50 (13.7%)	15 (10.0%)	15 (14.9%)	19 (25.7%)
NPNL	11 (61.1%)	91 (24.9%)	24 (16.0%)	2 (1.98%)	2 (2.70%)
1st Trimester	0 (0%)	22 (6.01%)	8 (5.33%)	0 (0%)	0 (0%)
2nd Trimester	0 (0%)	77 (21.0%)	36 (24.0%)	43 (42.6%)	24 (32.4%)
3rd Trimester	0 (0%)	58 (15.8%)	54 (36.0%)	35 (34.7%)	29 (39.2%)
Weeks					
N	18	366	150	101	74
Mean (SD)	6.79 (10.64)	15.60 (12.29)	21.41 (12.79)	23.55 (9.73)	25.38 (9.85)
Median [Min, Max]	0.00 [0.00, 27.00]	17.00 [0.00, 38.14]	24.00 [0.00, 37.14]	25.00 [0.00, 37.00]	25.00 [0.00, 36.57]
Age					
N	18	366	150	101	74
Mean (SD)	29.20 (2.25)	29.79 (3.93)	30.25 (4.45)	29.47 (4.87)	28.62 (4.26)
Median [Min, Max]	29.00 [25.00, 34.53]	30.00 [21.00, 41.00]	31.00 [21.00, 41.00]	30.00 [18.00, 39.00]	29.00 [21.00, 37.00]
Life_Stage					
19-30 years	13 (72.2%)	221 (60.4%)	71 (47.3%)	51 (50.5%)	45 (60.8%)
31-50 years	5 (27.8%)	145 (39.6%)	79 (52.7%)	47 (46.5%)	29 (39.2%)
14-18 years	0 (0%)	0 (0%)	0 (0%)	3 (2.97%)	0 (0%)
Height					

	< 18.5 kg/m2 (N=18)	>= 18.5 & <25 kg/m2 (N=366)	>= 25 & <30 kg/m2 (N=150)	>= 30 & <35 kg/m2 (N=101)	>= 35 & <40 kg/m2 (N=74)
N	18	366	150	101	74
Mean (SD)	163.55 (6.71)	164.51 (6.25)	164.96 (5.88)	163.86 (6.98)	163.16 (6.83)
Median [Min, Max]	163.65 [151.60, 173.00]	164.27 [149.81, 180.00]	164.75 [153.50, 179.00]	162.90 [148.70, 183.50]	162.50 [148.20, 179.90]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Weight					
N	18	366	150	101	74
Mean (SD)	48.49 (3.95)	59.66 (6.30)	73.70 (6.47)	86.62 (8.90)	100.31 (9.59)
Median [Min, Max]	48.70 [40.10, 54.60]	59.74 [42.60, 77.80]	73.26 [61.90, 89.70]	86.00 [70.70, 113.20]	99.75 [81.40, 124.00]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
FFM					
N	0	4	2	54	62
Mean (SD)	NA (NA)	41.52 (3.76)	45.27 (3.15)	51.89 (6.33)	55.07 (7.89)
Median [Min, Max]	NA [NA, NA]	42.46 [36.36, 44.80]	45.27 [43.04, 47.50]	50.67 [39.88, 66.05]	53.53 [34.67, 75.99]
Missing	18 (100%)	362 (98.9%)	148 (98.7%)	47 (46.5%)	12 (16.2%)
FM					
N	0	4	2	54	62
Mean (SD)	NA (NA)	16.08 (3.62)	37.48 (3.56)	37.06 (5.98)	45.32 (7.50)
Median [Min, Max]	NA [NA, NA]	14.36 [14.10, 21.50]	37.48 [34.96, 40.00]	36.49 [25.21, 54.08]	46.13 [28.38, 71.69]
Missing	18 (100%)	362 (98.9%)	148 (98.7%)	47 (46.5%)	12 (16.2%)
FM_pct					
N	0	4	2	54	62
Mean (SD)	NA (NA)	27.76 (3.84)	45.27 (0.63)	41.60 (4.09)	45.11 (5.83)
Median [Min, Max]	NA [NA, NA]	27.07 [23.94, 32.95]	45.27 [44.82, 45.72]	41.49 [33.10, 53.44]	45.15 [32.85, 62.23]
Missing	18 (100%)	362 (98.9%)	148 (98.7%)	47 (46.5%)	12 (16.2%)
BMI					
N	18	366	150	101	74
Mean (SD)	18.10 (0.34)	22.02 (1.71)	27.05 (1.34)	32.19 (1.56)	37.60 (1.38)
Median [Min, Max]	18.21 [17.43, 18.49]	22.07 [18.50, 25.00]	26.81 [25.00, 29.97]	31.99 [30.07, 34.99]	37.58 [35.06, 39.98]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
TEE					
N	18	366	150	101	74
Mean (SD)	2347.92 (251.38)	2348.67 (447.12)	2664.23 (418.39)	2703.03 (396.00)	2682.72 (414.92)
Median [Min, Max]	2374.49 [1960.33, 2755.02]	2326.72 [1149.38, 4225.86]	2658.00 [1639.00, 4128.82]	2696.23 [1837.48, 3753.98]	2695.34 [1846.60, 3843.46]
BEE					
N	18	354	147	47	12
Mean (SD)	1247.77 (176.93)	1394.42 (166.64)	1585.90 (168.93)	1725.19 (250.27)	2014.75 (181.41)
Median [Min, Max]	1261.93 [859.50, 1609.94]	1371.95 [1007.10, 1934.00]	1582.46 [1120.45, 1976.14]	1728.73 [1310.40, 2293.74]	1980.55 [1746.70, 2392.59]
Missing	0 (0%)	12 (3.3%)	3 (2.0%)	54 (53.5%)	62 (83.8%)
PAL					
N	18	347	146	47	12
Mean (SD)	1.91 (0.30)	1.71 (0.28)	1.70 (0.27)	1.66 (0.25)	1.52 (0.14)
Median [Min, Max]	1.86 [1.22, 2.49]	1.69 [1.02, 2.48]	1.66 [1.12, 2.36]	1.61 [1.17, 2.21]	1.53 [1.26, 1.75]
Missing	0 (0%)	19 (5.2%)	4 (2.7%)	54 (53.5%)	62 (83.8%)
PALCAT					
PAL<1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
S	1 (5.56%)	91 (26.2%)	44 (30.1%)	17 (36.2%)	6 (50.0%)
LA	2 (11.1%)	75 (21.6%)	34 (23.3%)	9 (19.1%)	5 (41.7%)
A	6 (33.3%)	88 (25.4%)	27 (18.5%)	10 (21.3%)	1 (8.33%)
VA	9 (50.0%)	93 (26.8%)	41 (28.1%)	11 (23.4%)	0 (0%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Missing	0 (0%)	19 (5.2%)	4 (2.7%)	54 (53.5%)	62 (83.8%)
BMR_kcal_Schofield					
N	18	366	150	101	74
Mean (SD)	1222.93 (71.03)	1354.35 (82.03)	1500.24 (98.56)	1635.93 (132.26)	1800.40 (159.34)
Median [Min, Max]	1241.79 [1073.53, 1328.80]	1344.82 [1106.74, 1640.60]	1471.73 [1352.20, 1817.44]	1605.93 [1420.41, 1966.31]	1777.81 [1522.80, 2194.60]
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

	< 18.5 kg/m2 (N=18)	>= 18.5 & <25 kg/m2 (N=366)	>= 25 & <30 kg/m2 (N=150)	>= 30 & <35 kg/m2 (N=101)	>= 35 & <40 kg/m2 (N=74)
PAL_obs_est					
N	18	366	150	101	74
Mean (SD)	1.91 (0.30)	1.70 (0.30)	1.69 (0.27)	1.60 (0.23)	1.45 (0.20)
Median [Min, Max]	1.86 [1.22, 2.49]	1.69 [0.83, 2.48]	1.66 [0.99, 2.36]	1.57 [1.16, 2.21]	1.47 [0.97, 1.96]
PALCAT_obs_est					
PAL<1	0 (0%)	7 (1.91%)	1 (0.667%)	0 (0%)	1 (1.35%)
S	1 (5.56%)	92 (25.1%)	45 (30.0%)	45 (44.6%)	42 (56.8%)
LA	2 (11.1%)	77 (21.0%)	36 (24.0%)	23 (22.8%)	23 (31.1%)
A	6 (33.3%)	92 (25.1%)	27 (18.0%)	19 (18.8%)	6 (8.11%)
VA	9 (50.0%)	98 (26.8%)	41 (27.3%)	14 (13.9%)	2 (2.70%)
PAL>2.5	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

3.3 Descriptive stats by life stage

Descriptive statistics for Height, Weight, TEE and PAL in observed data

3.3.1 Female

	0-6 months (N=251)	7-11 months (N=69)	1-3 years (N=139)	4-8 years (N=495)	9-13 years (N=184)
Height (cm)					
Mean (SD)	60.9 (5.19)	71.8 (2.94)	85.9 (9.01)	118 (10.6)	146 (11.1)
Median [Min, Max]	61.2 [46.4, 72.2]	71.1 [65.5, 80.0]	85.0 [71.0, 118]	118 [93.7, 155]	145 [116, 17
[q10, q25, q50, q75, q90]	[54.0, 57.9, 61.2, 65.0, 67.5]	[68.8, 70.0, 71.1, 73.1, 75.3]	[75.0, 80.0, 85.0, 89.0, 99.1]	[104, 111, 118, 126, 133]	[131, 138, 145, 15
Missing	1 (0.4%)	0 (0%)	0 (0%)	7 (1.4%)	3 (1.6%)
Weight (kg)					
Mean (SD)	6.06 (1.45)	8.88 (0.981)	12.0 (2.82)	24.3 (7.39)	43.8 (13.9)
Median [Min, Max]	6.02 [2.36, 9.83]	8.90 [6.54, 11.3]	11.5 [8.20, 29.8]	22.6 [12.2, 66.0]	40.7 [22.2, 96
[q10, q25, q50, q75, q90]	[4.16, 5.01, 6.02, 7.19, 8.00]	[7.49, 8.20, 8.90, 9.50, 10.3]	[9.19, 10.0, 11.5, 12.9, 15.3]	[16.9, 19.1, 22.6, 27.8, 32.6]	[28.7, 34.1, 40.7, 52
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
TEE kcal/d					
Mean (SD)	439 (124)	681 (109)	929 (188)	1490 (314)	2060 (459)
Median [Min, Max]	436 [188, 787]	678 [390, 961]	914 [517, 1430]	1440 [833, 2700]	2010 [1000, 3(
[q10, q25, q50, q75, q90]	[287, 357, 436, 521, 601]	[553, 600, 678, 747, 811]	[694, 815, 914, 1050, 1190]	[1150, 1270, 1440, 1650, 1910]	[1490, 1700, 2010, 2∙
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
PAL					
Mean (SD)	1.27 (0.203)	1.29 (0.187)	1.37 (0.247)	1.49 (0.214)	1.61 (0.272
Median [Min, Max]	1.27 [1.01, 1.88]	1.27 [1.00, 1.88]	1.36 [1.02, 1.99]	1.45 [1.10, 2.15]	1.59 [1.07, 2.∙
[q10, q25, q50, q75, q90]	[1.05, 1.11, 1.27, 1.37, 1.52]	[1.10, 1.17, 1.27, 1.36, 1.55]	[1.07, 1.15, 1.36, 1.51, 1.73]	[1.26, 1.33, 1.45, 1.62, 1.78]	[1.29, 1.42, 1.59, 1.
Missing	186 (74.1%)	30 (43.5%)	72 (51.8%)	268 (54.1%)	64 (34.8%)

3.3.2 Male

	0-6 months (N=192)	7-11 months (N=43)	1-3 years (N=104)	4-8 years (N=383)	9-13 years (N=120)
Height (cm)					
Mean (SD)	61.3 (5.48)	73.1 (2.86)	86.7 (9.56)	116 (8.89)	145 (9.18)
Median [Min, Max]	61.9 [47.3, 72.0]	73.0 [68.0, 78.8]	85.5 [72.0, 113]	115 [92.1, 153]	144 [125, 17
[q10, q25, q50, q75, q90]	[52.5, 57.9, 61.9, 65.9, 68.0]	[69.8, 71.0, 73.0, 74.9, 77.4]	[75.1, 80.0, 85.5, 90.0, 100]	[105, 110, 115, 121, 128]	[135, 139, 144, 15
Missing	0 (0%)	0 (0%)	0 (0%)	14 (3.7%)	4 (3.3%)
Weight (kg)					
Mean (SD)	6.30 (1.54)	9.34 (1.13)	12.6 (3.07)	23.2 (6.63)	46.1 (15.1)
Median [Min, Max]	6.48 [2.70, 9.30]	9.20 [7.30, 12.6]	11.6 [8.40, 22.6]	21.7 [13.7, 68.4]	42.4 [23.5, 99
[q10, q25, q50, q75, q90]	[4.12, 5.30, 6.48, 7.49, 8.25]	[8.00, 8.60, 9.20, 10.0, 10.6]	[9.80, 10.5, 11.6, 13.9, 16.6]	[17.0, 18.9, 21.7, 25.7, 31.0]	[30.2, 34.4, 42.4, 55
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
TEE kcal/d					
Mean (SD)	462 (141)	787 (140)	985 (218)	1540 (302)	2320 (464)
Median [Min, Max]	451 [151, 825]	751 [601, 1190]	954 [560, 1700]	1510 [879, 2980]	2360 [1180, 3(
[q10, q25, q50, q75, q90]	[278, 366, 451, 567, 642]	[627, 693, 751, 851, 956]	[748, 820, 954, 1100, 1270]	[1200, 1340, 1510, 1690, 1910]	[1760, 1990, 2360, 2

	0-6 months (N=192)	7-11 months (N=43)	1-3 years (N=104)	4-8 years (N=383)	9-13 years (N=120)
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
PAL					
Mean (SD)	1.26 (0.196)	1.38 (0.176)	1.33 (0.195)	1.42 (0.157)	1.60 (0.189
Median [Min, Max]	1.22 [1.01, 1.80]	1.33 [1.07, 1.75]	1.29 [1.02, 1.87]	1.40 [1.13, 1.91]	1.60 [1.03, 1.
[q10, q25, q50, q75, q90]	[1.03, 1.10, 1.22, 1.39, 1.49]	[1.20, 1.26, 1.33, 1.50, 1.62]	[1.12, 1.23, 1.29, 1.40, 1.58]	[1.24, 1.32, 1.40, 1.53, 1.64]	[1.42, 1.50, 1.60, 1.
Missing	155 (80.7%)	20 (46.5%)	64 (61.5%)	230 (60.1%)	60 (50.0%

3.3.3 Overall

	0-6 months (N=443)	7-11 months (N=112)	1-3 years (N=243)	4-8 years (N=878)	9-13 years (N=304)
Height (cm)					
Mean (SD)	61.1 (5.32)	72.3 (2.96)	86.2 (9.24)	117 (9.97)	146 (10.4
Median [Min, Max]	61.5 [46.4, 72.2]	72.0 [65.5, 80.0]	85.0 [71.0, 118]	116 [92.1, 155]	145 [116, 17
[q10, q25, q50, q75, q90]	[53.4, 57.9, 61.5, 65.3, 68.0]	[69.0, 70.0, 72.0, 74.0, 77.0]	[75.0, 80.0, 85.0, 89.9, 99.9]	[104, 110, 116, 124, 131]	[133, 138, 145, 15
Missing	1 (0.2%)	0 (0%)	0 (0%)	21 (2.4%)	7 (2.3%)
Weight (kg)					
Mean (SD)	6.17 (1.49)	9.06 (1.06)	12.2 (2.93)	23.8 (7.08)	44.7 (14.4
Median [Min, Max]	6.10 [2.36, 9.83]	9.05 [6.54, 12.6]	11.6 [8.20, 29.8]	22.2 [12.2, 68.4]	41.5 [22.2, 99
[q10, q25, q50, q75, q90]	[4.12, 5.19, 6.10, 7.29, 8.10]	[7.91, 8.30, 9.05, 9.80, 10.3]	[9.38, 10.3, 11.6, 13.1, 15.6]	[16.9, 18.9, 22.2, 26.9, 32.0]	[29.0, 34.2, 41.5, 5;
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
TEE kcal/d					
Mean (SD)	449 (132)	722 (132)	953 (203)	1510 (310)	2160 (478)
Median [Min, Max]	438 [151, 825]	711 [390, 1190]	935 [517, 1700]	1480 [833, 2980]	2140 [1000, 3(
[q10, q25, q50, q75, q90]	[284, 357, 438, 542, 617]	[574, 627, 711, 786, 877]	[729, 816, 935, 1070, 1200]	[1160, 1300, 1480, 1670, 1910]	[1560, 1800, 2140, 2·
Missing	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
PAL					
Mean (SD)	1.27 (0.199)	1.33 (0.187)	1.36 (0.228)	1.46 (0.196)	1.61 (0.247
Median [Min, Max]	1.26 [1.01, 1.88]	1.29 [1.00, 1.88]	1.32 [1.02, 1.99]	1.43 [1.10, 2.15]	1.60 [1.03, 2.·
[q10, q25, q50, q75, q90]	[1.03, 1.11, 1.26, 1.38, 1.52]	[1.12, 1.20, 1.29, 1.42, 1.61]	[1.08, 1.19, 1.32, 1.49, 1.67]	[1.25, 1.32, 1.43, 1.56, 1.73]	[1.30, 1.45, 1.60, 1.
Missing	341 (77.0%)	50 (44.6%)	136 (56.0%)	498 (56.7%)	124 (40.8%

3.3.4 Pregnant/Lactating

	14-18 years (N=3)	19-30 years (N=437)	31-50 years (N=324)	Overall (N=764)
Height				
Mean (SD)	165 (3.00)	164 (6.26)	165 (6.76)	164 (6.47)
Median [Min, Max]	167 [162, 167]	164 [148, 179]	165 [142, 184]	164 [142, 184]
[q10, q25, q50, q75, q90]	[163, 164, 167, 167, 167]	[157, 159, 164, 168, 172]	[157, 160, 165, 169, 173]	[157, 160, 164, 168, 173]
Missing	0 (0%)	4 (0.9%)	0 (0%)	4 (0.5%)
Weight				
Mean (SD)	87.4 (6.29)	72.7 (19.8)	75.0 (20.6)	73.7 (20.1)
Median [Min, Max]	88.9 [80.5, 92.8]	66.6 [40.1, 171]	69.8 [46.9, 151]	68.0 [40.1, 171]
[q10, q25, q50, q75, q90]	[82.2, 84.7, 88.9, 90.9, 92.0]	[52.7, 57.7, 66.6, 84.9, 101]	[54.5, 60.3, 69.8, 85.0, 105]	[53.2, 59.1, 68.0, 85.1, 102]
Missing	0 (0%)	4 (0.9%)	0 (0%)	4 (0.5%)
TEE				
Mean (SD)	2840 (265)	2540 (497)	2520 (439)	2530 (472)
Median [Min, Max]	2720 [2650, 3140]	2510 [1150, 4770]	2520 [1520, 4130]	2520 [1150, 4770]
[q10, q25, q50, q75, q90]	[2660, 2680, 2720, 2930, 3050]	[1960, 2170, 2510, 2840, 3170]	[1940, 2190, 2520, 2820, 3060]	[1950, 2180, 2520, 2830, 3120]
PAL				
Mean (SD)	NA	1.71 (0.283)	1.69 (0.272)	1.70 (0.278)
Median [Min, Max]	NA	1.68 [1.02, 2.49]	1.68 [1.05, 2.48]	1.68 [1.02, 2.49]
[q10, q25, q50, q75, q90]	NA	[1.36, 1.52, 1.68, 1.89, 2.08]	[1.37, 1.50, 1.68, 1.86, 2.07]	[1.36, 1.51, 1.68, 1.88, 2.08]
Missing	3 (100%)	113 (25.9%)	74 (22.8%)	190 (24.9%)

4 Plots

4.1 TEE Boxplots

4.1.1 Infants

0-11 months old
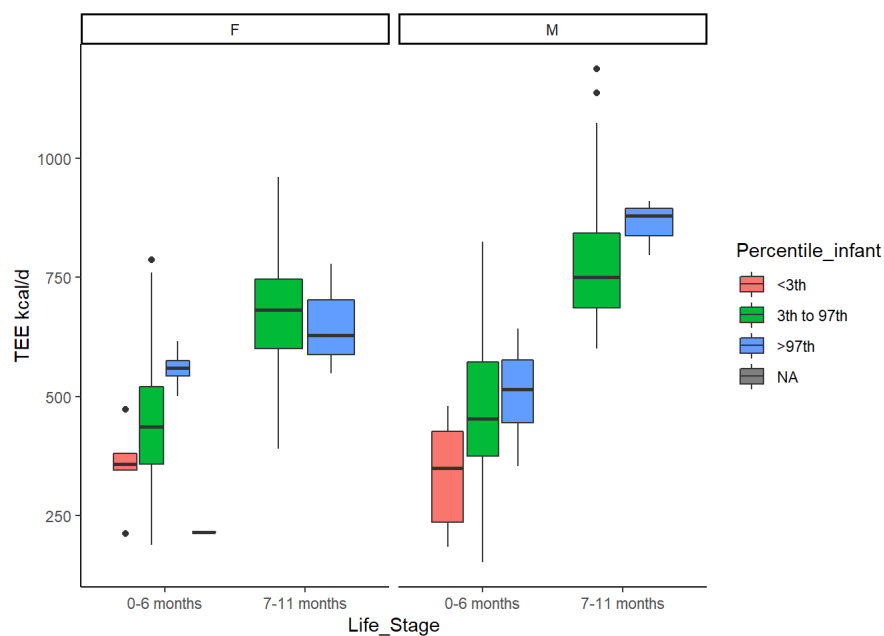
Female n=320

		0-6 months			**7-11 months**	
Percentile_infant	n	Mean	SD	n	Mean	SD
<3th	5	354.18	93.91	NA	NA	NA
3th to 97th	241	439.36	123.00	66	682.01	109.11
>97th	4	559.07	46.72	3	651.71	116.24
NA	1	215.43	NA	NA	NA	NA

Males n=235

		0-6 months			**7-11 months**	
Percentile_infant	n	Mean	SD	n	Mean	SD
<3th	8	332.75	116.25	NA	NA	NA
3th to 97th	180	466.40	139.88	40	781.41	142.68
>97th	4	506.42	122.98	3	862.32	58.83

4.1.2 Children

1-8 years old
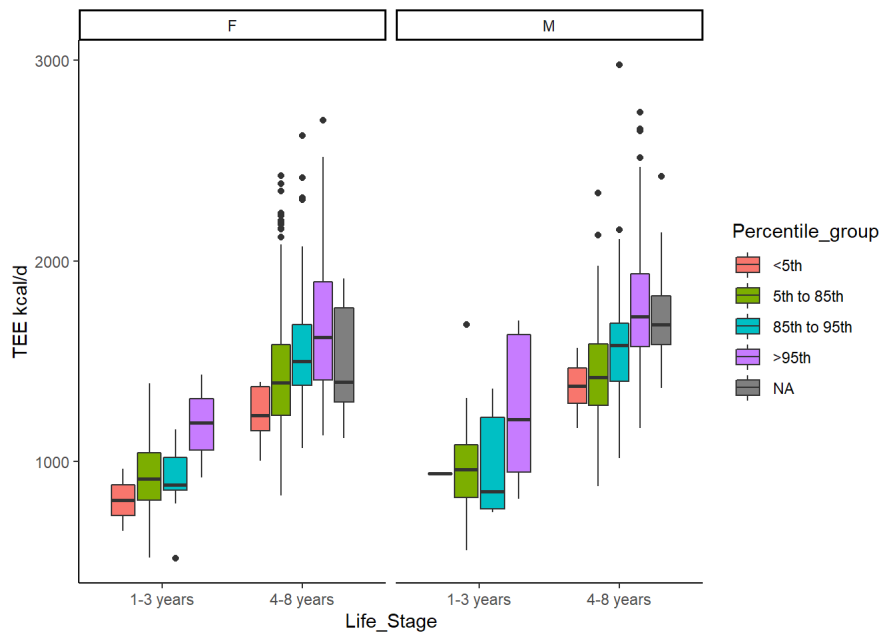
Female n=634

Percentile_group	1-3 years			4-8 years		
	n	Mean	SD	n	Mean	SD
<5th	2	808.44	218.41	7	1240.37	149.16
5th to 85th	121	925.92	184.77	336	1432.26	282.90
85th to 95th	13	915.60	172.79	61	1574.53	317.60
>95th	3	1183.34	256.18	84	1679.05	347.71
NA	NA	NA	NA	7	1507.81	304.83

Males n=487

Percentile_group	1-3 years			4-8 years		
	n	Mean	SD	n	Mean	SD
<5th	2	941.26	8.85	6	1374.59	145.67
5th to 85th	89	966.79	189.33	239	1446.50	236.57
85th to 95th	7	990.13	273.46	45	1593.99	333.22
>95th	6	1262.65	398.31	79	1780.04	319.01
NA	NA	NA	NA	14	1748.98	291.78

4.1.3 Teenagers

9-18 years old
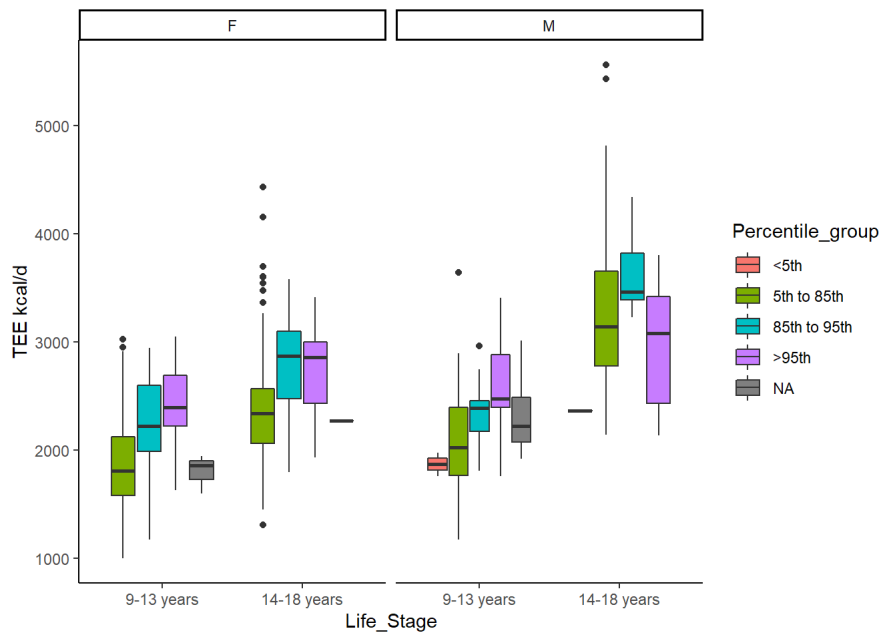
Female n=434

	1-3 years			4-8 years		
Percentile_group	n	Mean	SD	n	Mean	SD
5th to 85th	113	1890.02	410.51	201	2356.36	456.47
85th to 95th	33	2248.25	429.29	24	2781.63	451.63
>95th	35	2432.11	350.60	22	2737.88	399.60
NA	3	1803.97	179.38	1	2271.82	NA

Males n=270

	1-3 years			4-8 years		
Percentile_group	n	Mean	SD	n	Mean	SD
<5th	2	1871.43	152.08	1	2368.00	NA
5th to 85th	50	2094.59	462.08	132	3269.46	664.74
85th to 95th	21	2326.39	269.95	7	3634.39	387.23
>95th	43	2604.51	395.12	9	2986.25	592.79
NA	4	2343.40	472.68	NA	NA	NA

4.1.4 Adults

19+ years old
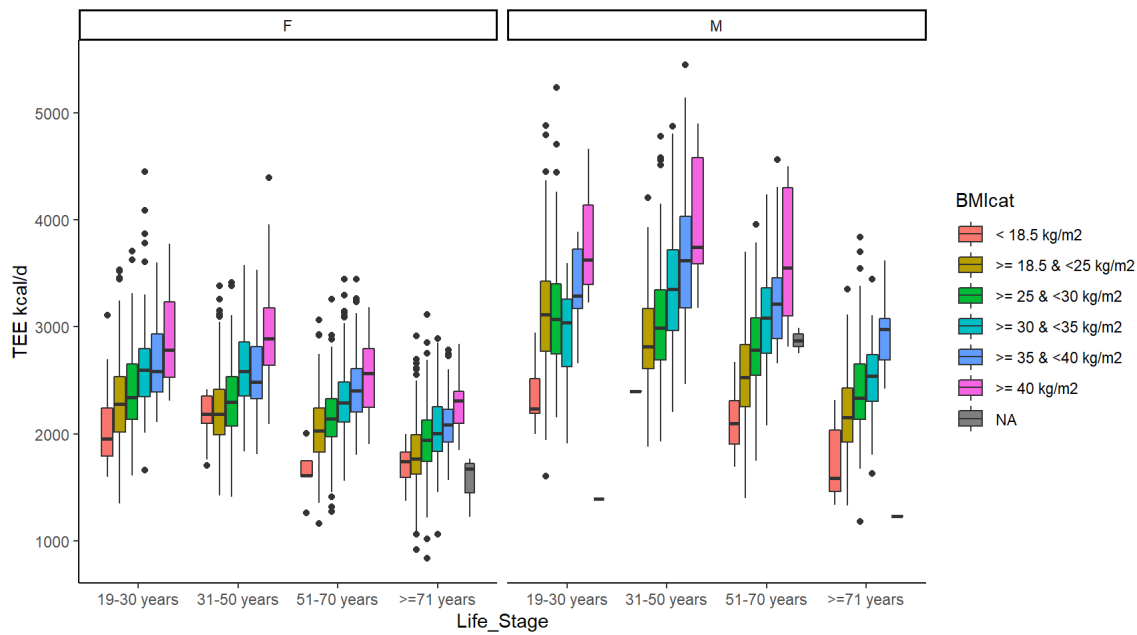
Female n=3585

BMIcat	19-30 years			31-50 years			51-70 years			>=71 years		
	n	Mean	SD	n	Mean	SD	n_51-70 years	Mean_51-70 years	SD_51-70 years	n_>=71 years	Mean_>=71 years	SD_>=71 years
< 18.5 kg/m2	18	2066.56	385.80	13	2144.79	230.85	5	1644.75	266.99	12	1700.50	194.27
>= 18.5 & <25 kg/m2	353	2286.05	386.69	387	2214.24	331.14	334	2041.83	302.03	361	1800.48	296.50
>= 25 & <30 kg/m2	151	2404.55	385.05	316	2326.38	341.67	344	2147.68	284.65	326	1930.26	298.02
>= 30 & <35 kg/m2	62	2672.25	513.92	157	2611.55	393.80	232	2297.44	313.24	136	2036.25	316.99
>= 35 & <40 kg/m2	26	2691.01	438.10	61	2574.13	382.78	107	2448.38	351.30	47	2117.40	291.55
>= 40 kg/m2	14	2904.23	479.59	43	2938.76	491.31	53	2540.48	324.37	19	2281.33	246.53
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	1555.09	290.68

Males n=1871

BMIcat	19-30 years			31-50 years			51-70 years			>=71 years		
	n	Mean	SD	n	Mean	SD	n_51-70 years	Mean_51-70 years	SD_51-70 years	n_>=71 years	Mean_>=71 years	SD_>=71 years
< 18.5 kg/m2	5	2374.72	368.16	1	2395.37	NA	7	2127.10	336.01	7	1746.67	379.24
>= 18.5 & <25 kg/m2	208	3095.50	550.45	235	2920.28	437.85	96	2558.64	443.13	157	2181.91	391.20
>= 25 & <30 kg/m2	92	3153.41	548.76	290	3033.04	491.24	218	2809.39	399.23	160	2419.72	426.20
>= 30 & <35 kg/m2	29	2963.31	413.20	102	3404.94	600.48	92	3064.33	476.17	47	2522.85	353.06
>= 35 & <40 kg/m2	10	3373.66	402.25	50	3743.70	779.35	17	3320.38	575.00	5	2955.95	451.25
>= 40 kg/m2	10	3766.43	484.80	14	3954.49	596.30	11	3662.98	642.73	NA	NA	NA
NA	1	1394.77	NA	NA	NA	NA	2	2871.71	167.10	1	1226.86	NA

4.2 BMI/Percentile Boxplots

4.2.1 Infants

0-11 months old

	F (N=320)	M (N=235)	Overall (N=555)
Percentile category			
<3th	5 (1.6%)	8 (3.4%)	13 (2.3%)
3th to 97th	307 (95.9%)	220 (93.6%)	527 (95.0%)
>97th	7 (2.2%)	7 (3.0%)	14 (2.5%)
Missing	1 (0.3%)	0 (0%)	1 (0.2%)
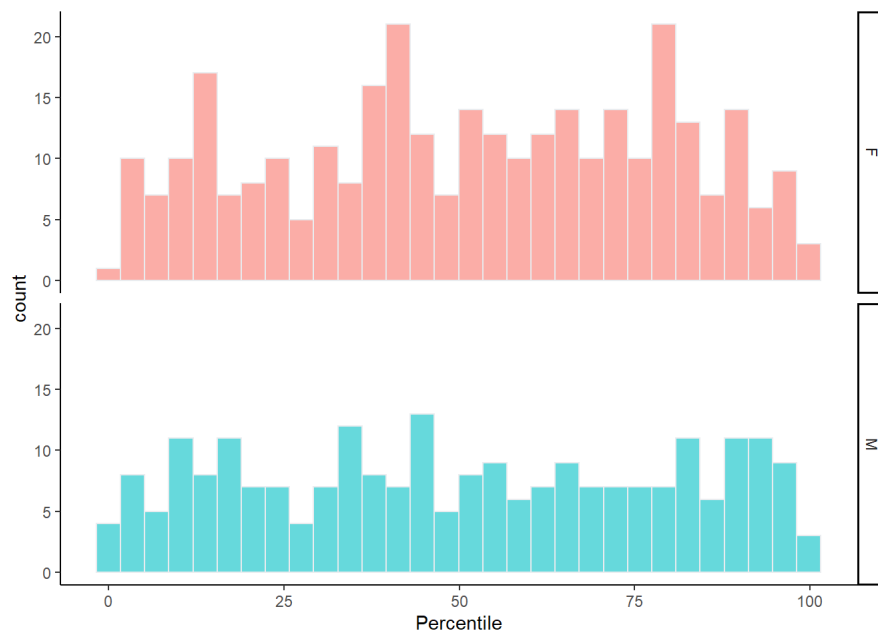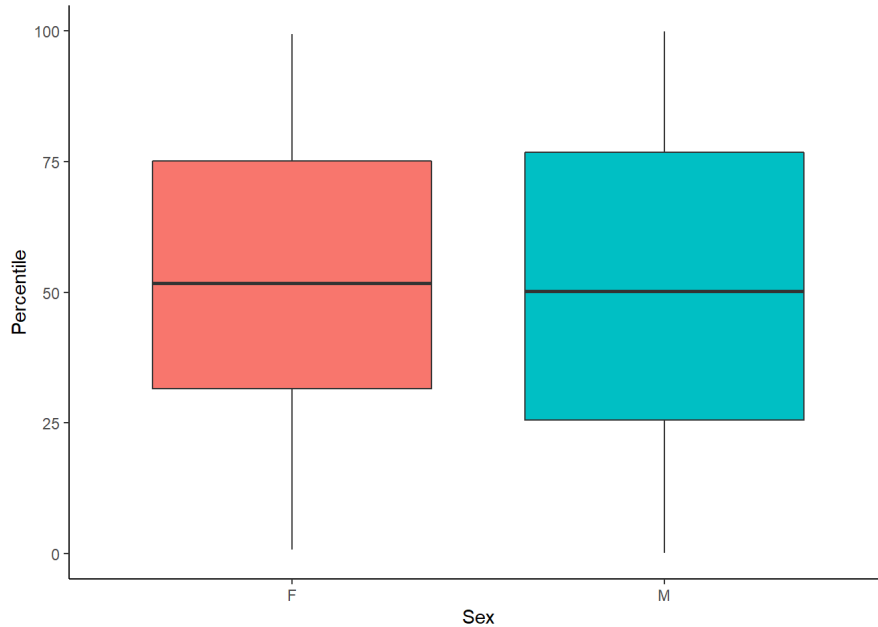
4.2.2 Children

1-8 years old

	F (N=634)	M (N=487)	Overall (N=1121)
Percentile category			
<5th	9 (1.4%)	8 (1.6%)	17 (1.5%)
5th to 85th	457 (72.1%)	328 (67.4%)	785 (70.0%)
85th to 95th	74 (11.7%)	52 (10.7%)	126 (11.2%)
>95th	87 (13.7%)	85 (17.5%)	172 (15.3%)

	F (N=634)	M (N=487)	Overall (N=1121)
Missing	7 (1.1%)	14 (2.9%)	21 (1.9%)
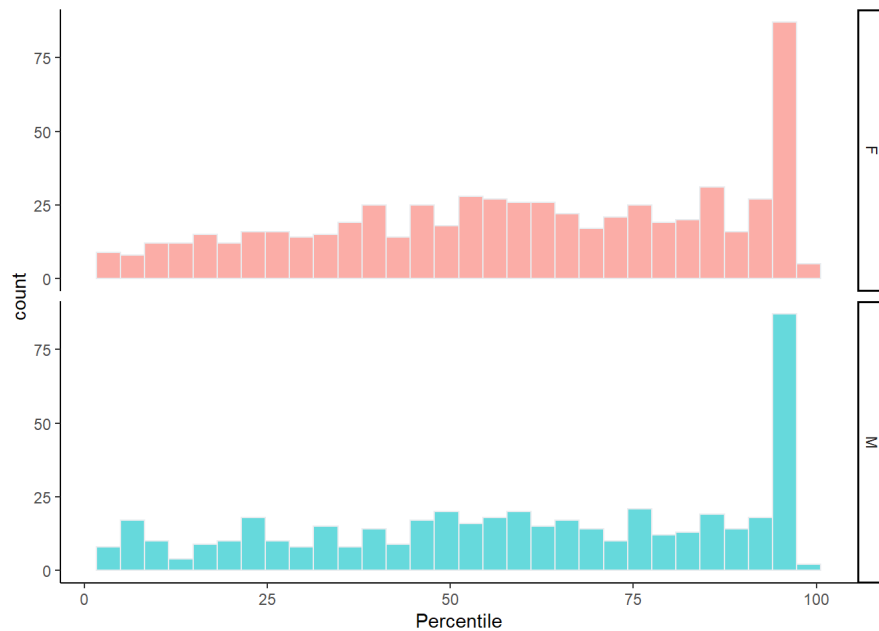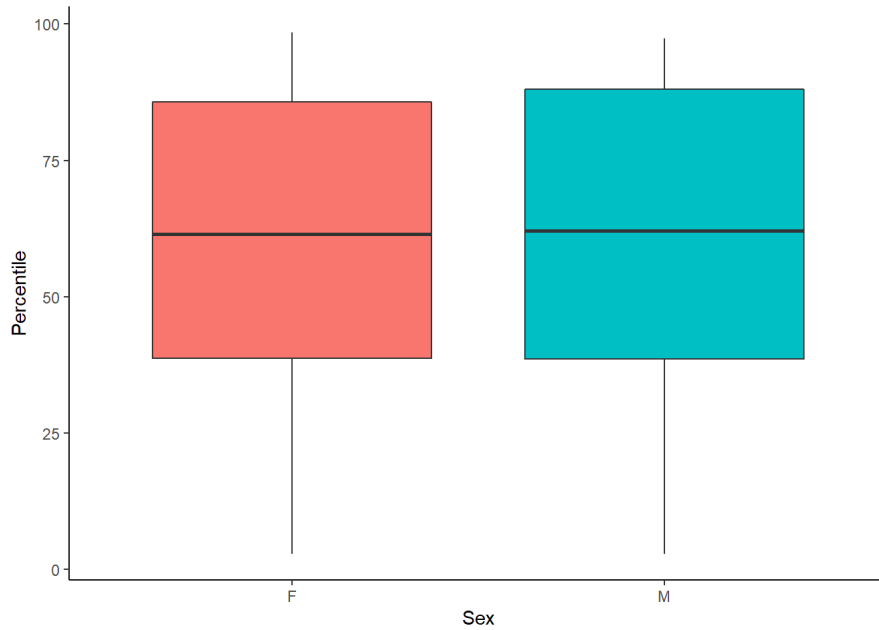
4.2.3 Teenagers

9-18 years old

	F (N=434)	M (N=270)	Overall (N=704)
Percentile category			
<5th	0 (0%)	3 (1.1%)	3 (0.4%)
5th to 85th	316 (72.8%)	183 (67.8%)	499 (70.9%)
85th to 95th	57 (13.1%)	28 (10.4%)	85 (12.1%)
>95th	57 (13.1%)	52 (19.3%)	109 (15.5%)
Missing	4 (0.9%)	4 (1.5%)	8 (1.1%)
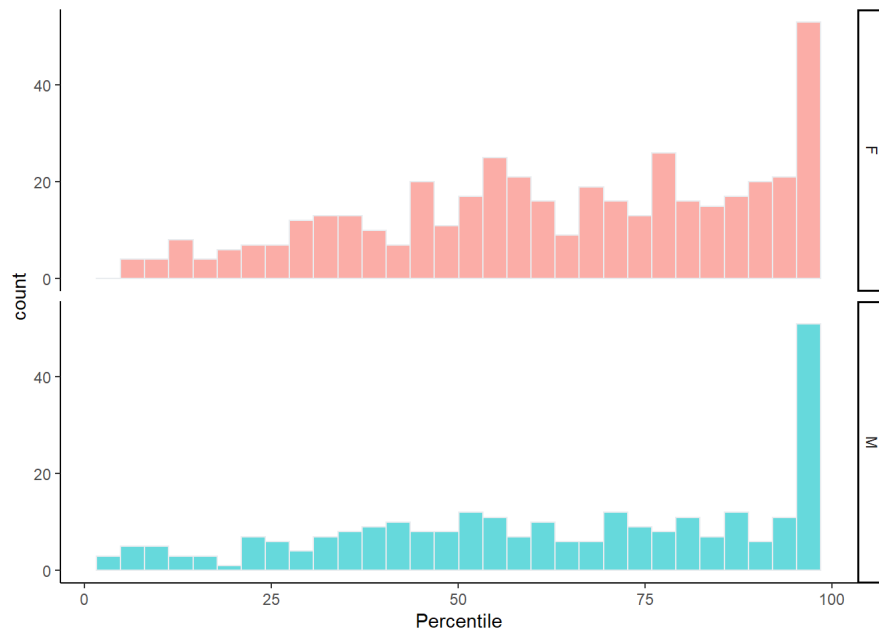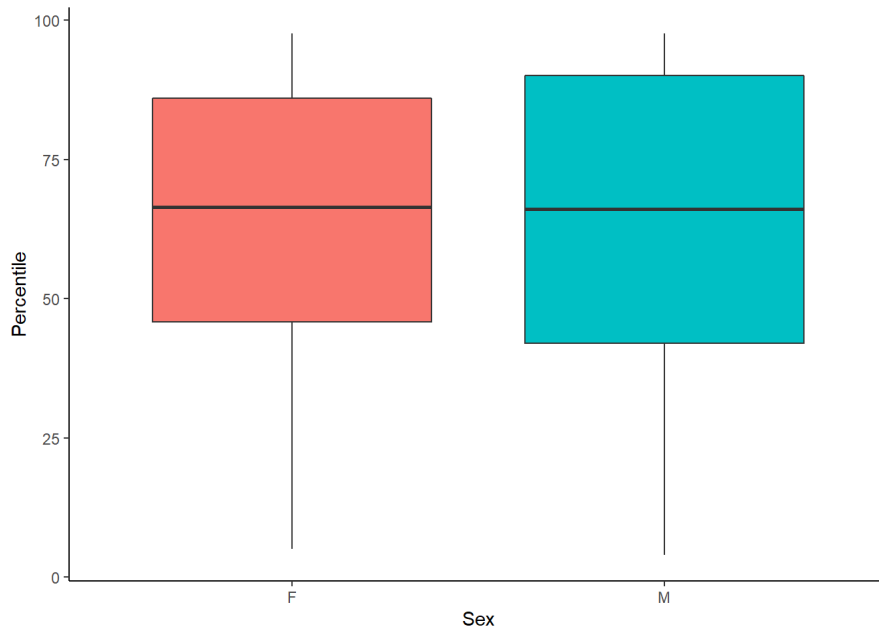
4.2.4 Adults

19+ years old

	F (N=3585)	M (N=1871)	Overall (N=5456)
BMIcat			
< 18.5 kg/m2	48 (1.3%)	20 (1.1%)	68 (1.2%)
>= 18.5 & <25 kg/m2	1436 (40.1%)	698 (37.3%)	2134 (39.1%)
>= 25 & <30 kg/m2	1140 (31.8%)	761 (40.7%)	1901 (34.8%)
>= 30 & <35 kg/m2	588 (16.4%)	271 (14.5%)	859 (15.7%)
>= 35 & <40 kg/m2	241 (6.7%)	82 (4.4%)	323 (5.9%)
>= 40 kg/m2	129 (3.6%)	35 (1.9%)	164 (3.0%)
Missing	3 (0.1%)	4 (0.2%)	7 (0.1%)
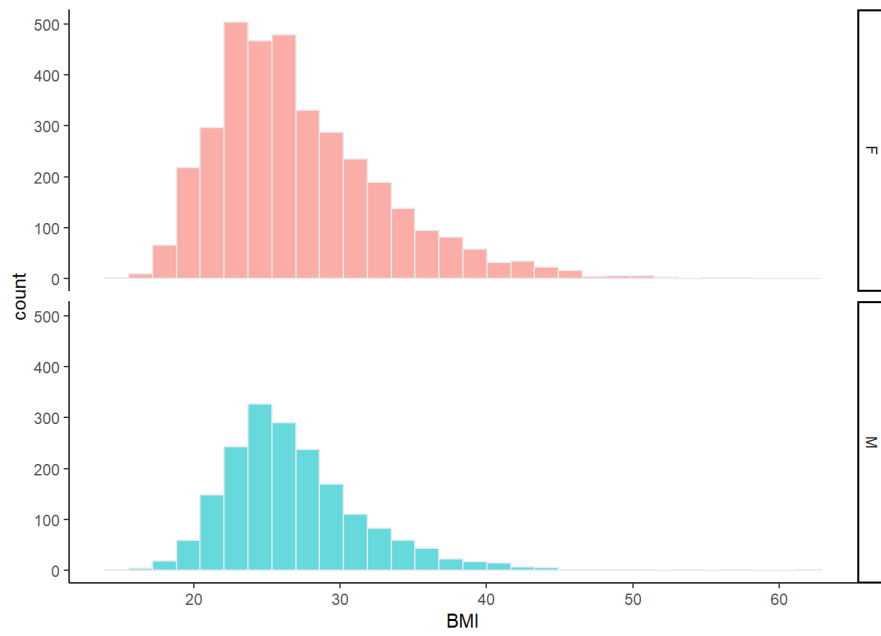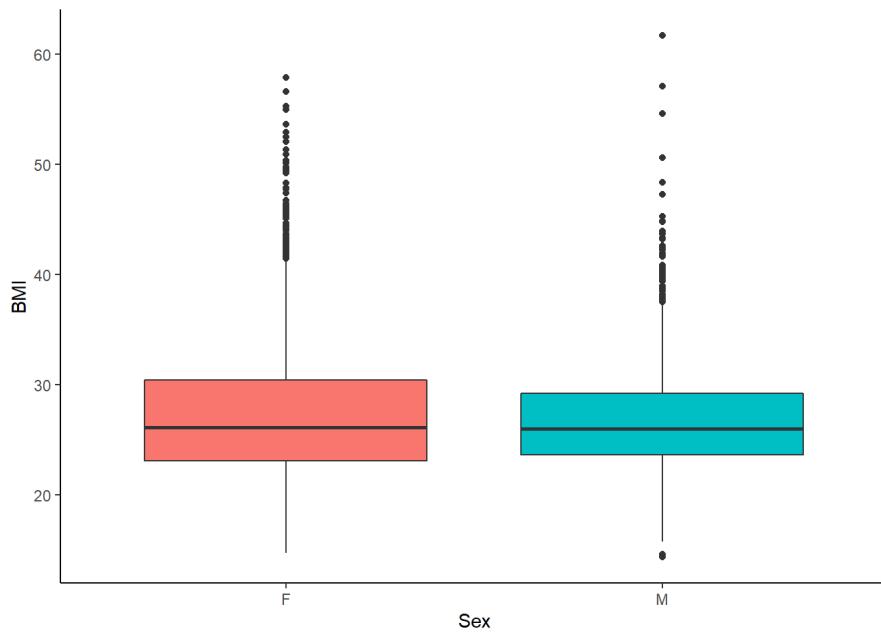
4.3 BMI/Percentile vs Age

4.3.1 Infants

0-11 months old
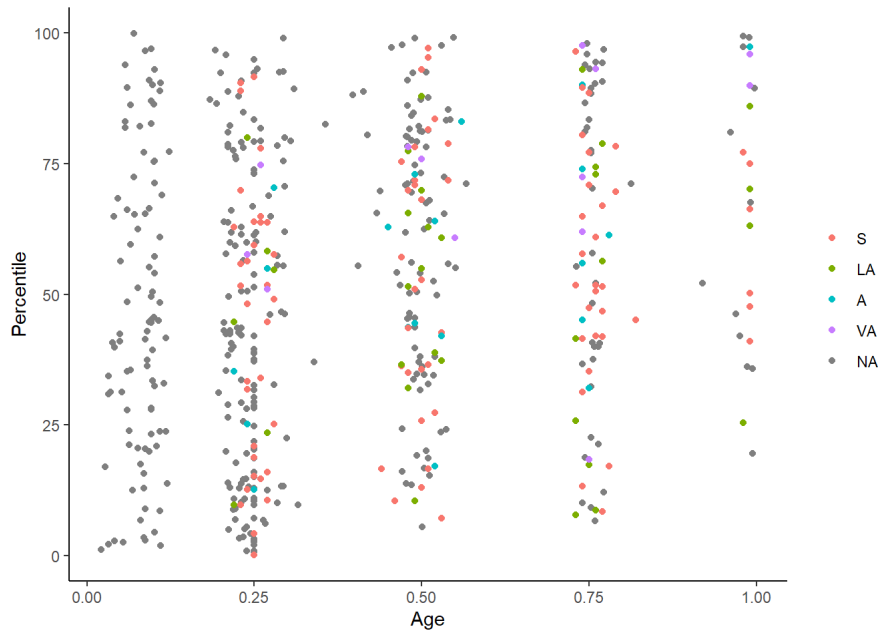
4.3.2 Children

1-8 years old
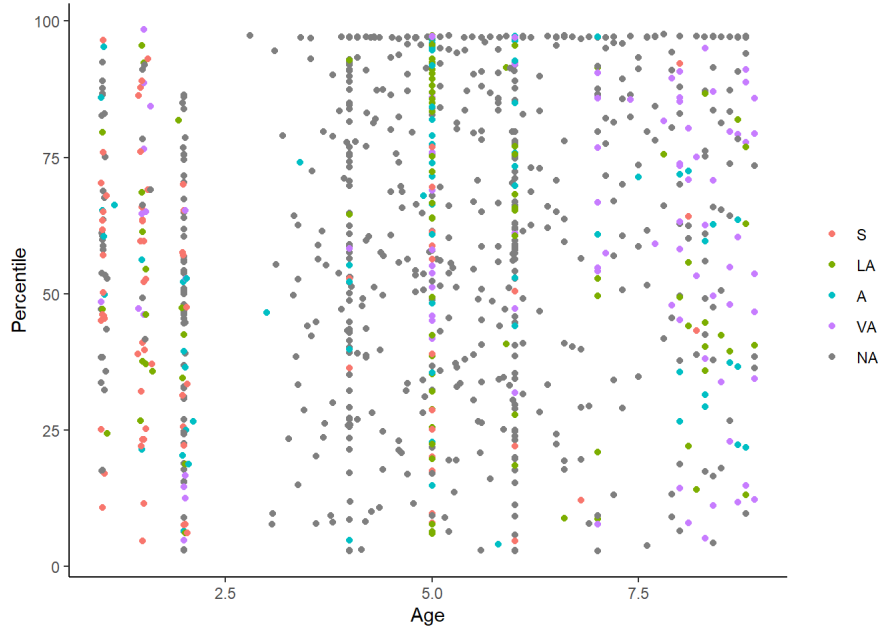
4.3.3 Teenagers

9-18 years old
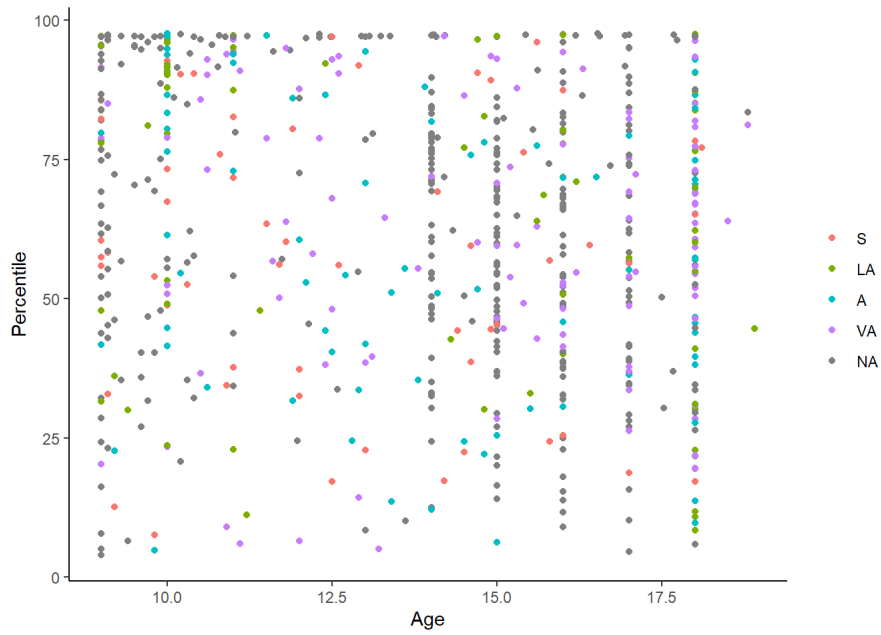
4.3.4 Adults

19+ years old
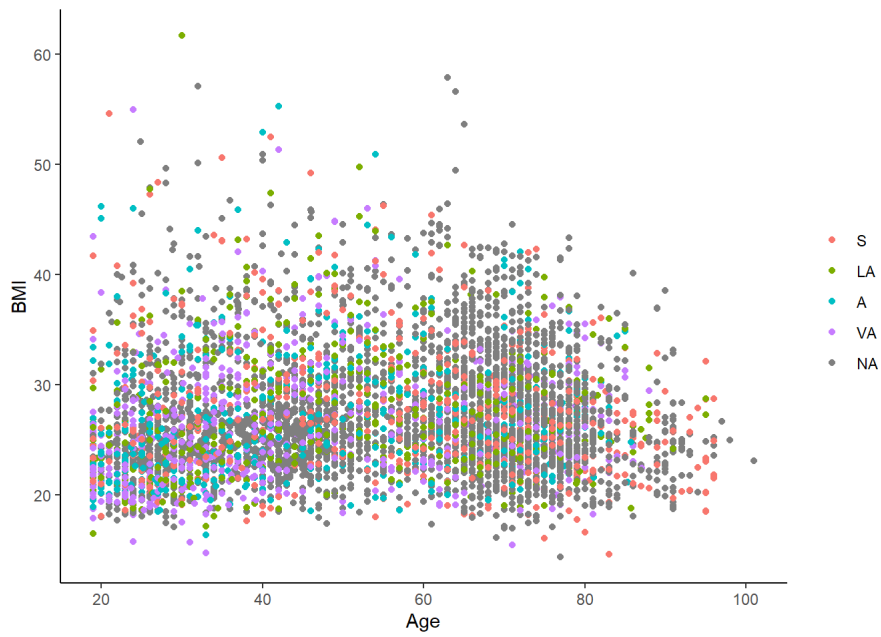
4.4 TEE vs BMI/Percentile

4.4.1 Infants

0-11 months old
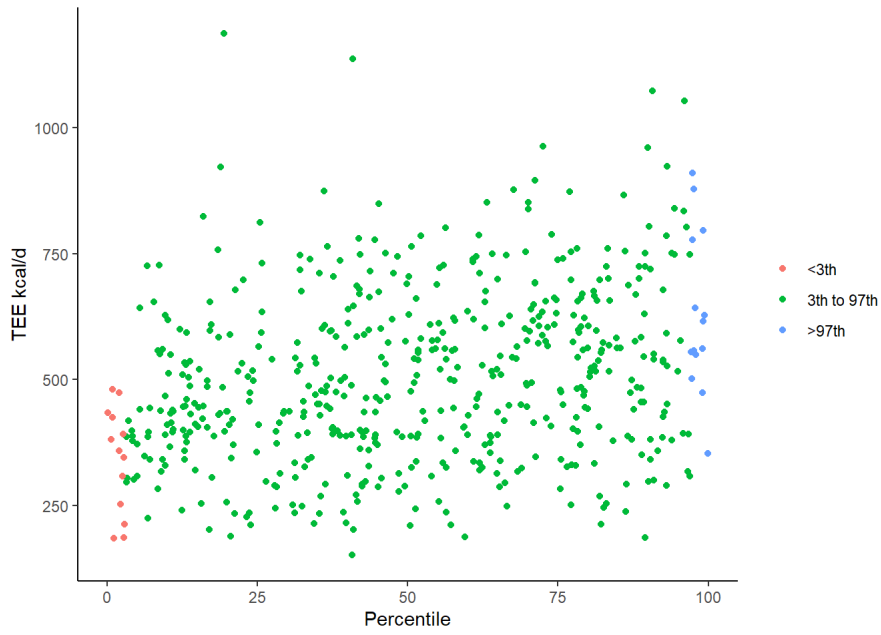
4.4.2 Children

1-8 years old
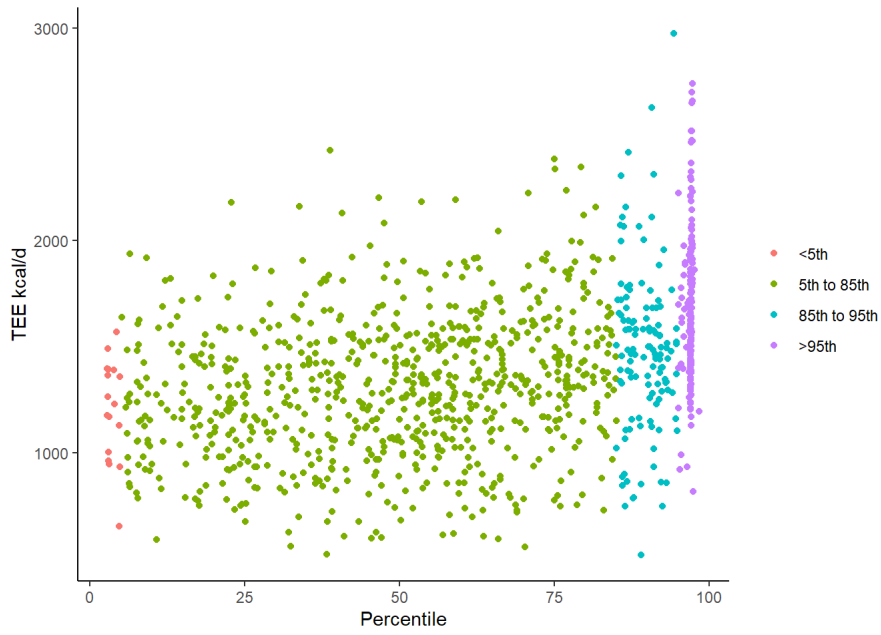
4.4.3 Teenagers

9-18 years old
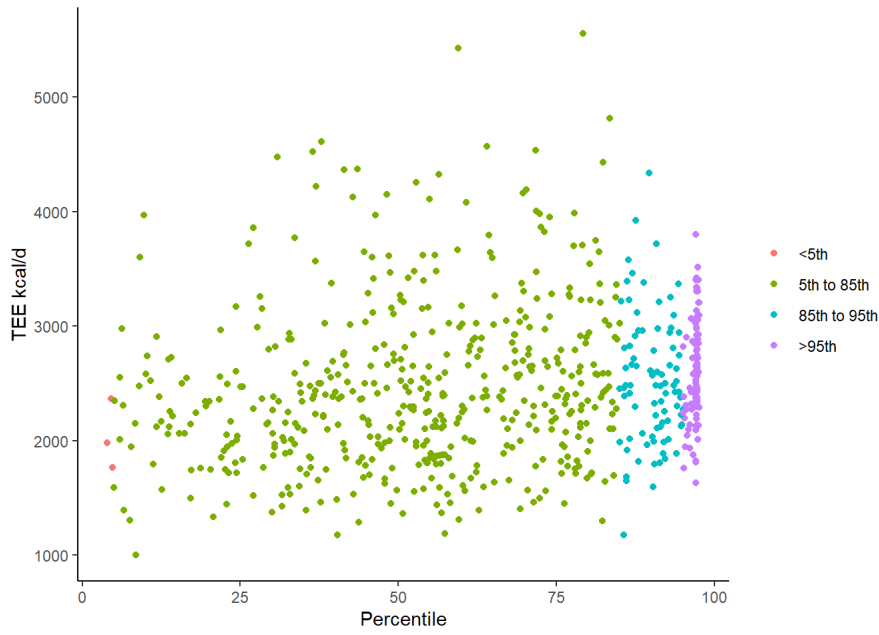
4.4.4 Adults

19+ years old
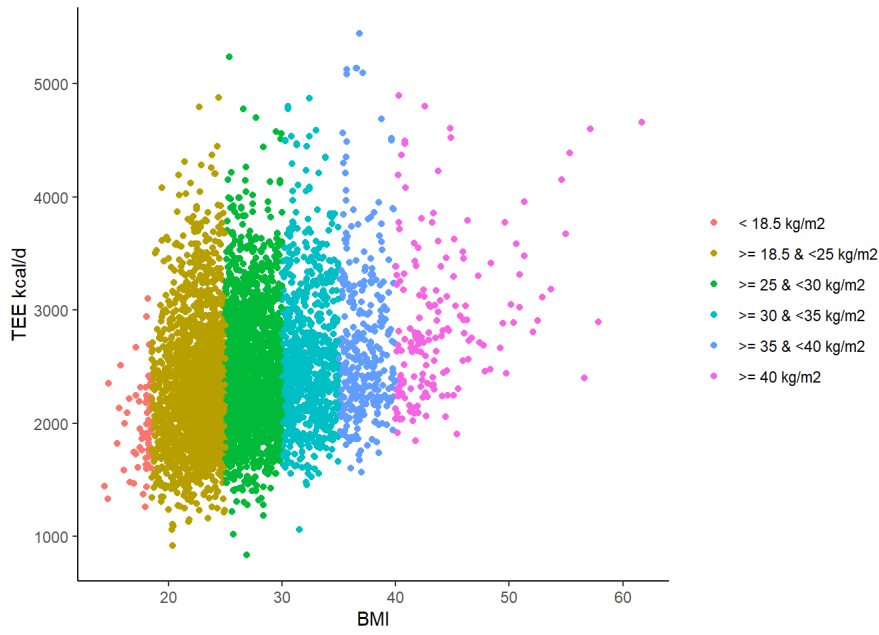
4.5 TEE vs BMI/Percentile by PALCAT
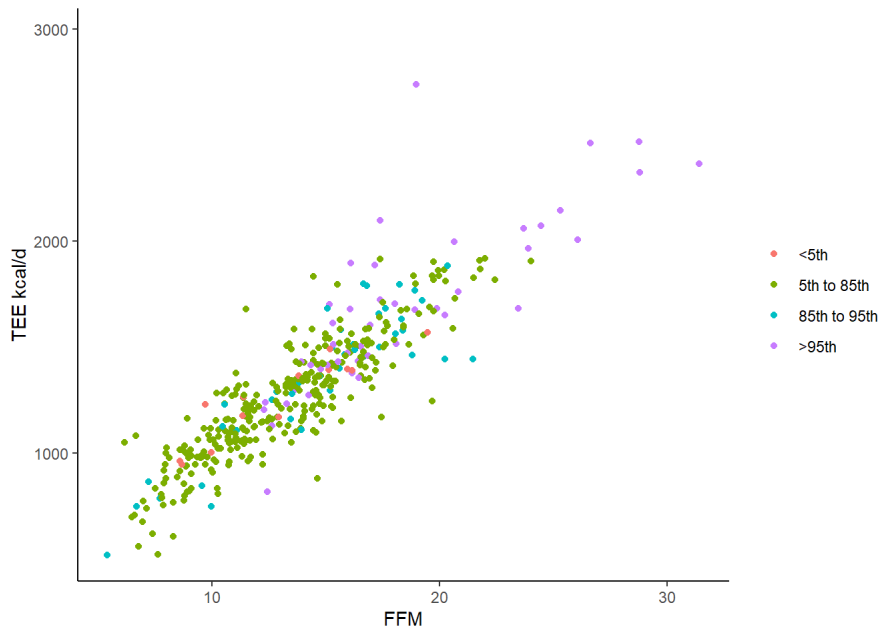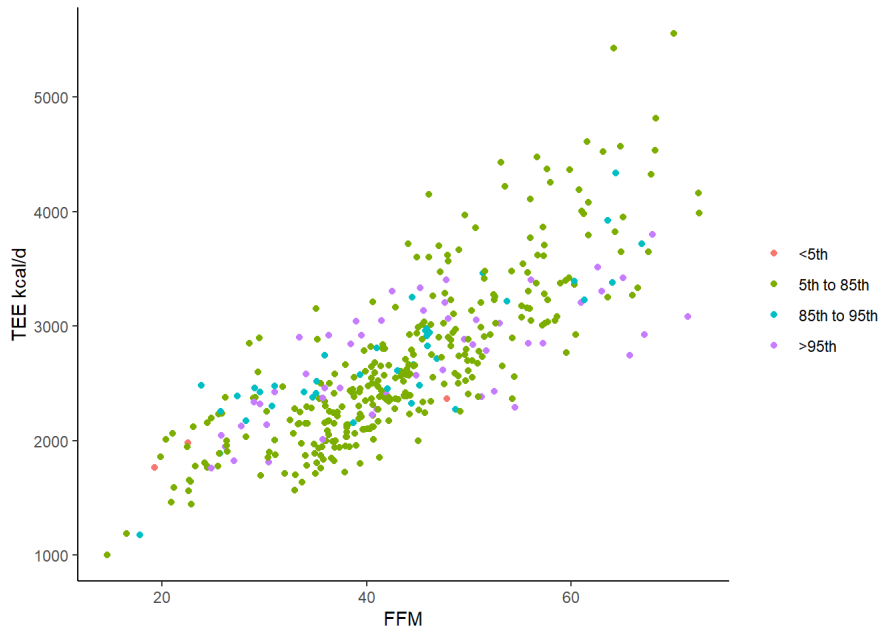
4.5.1 Infants

0-11 months old
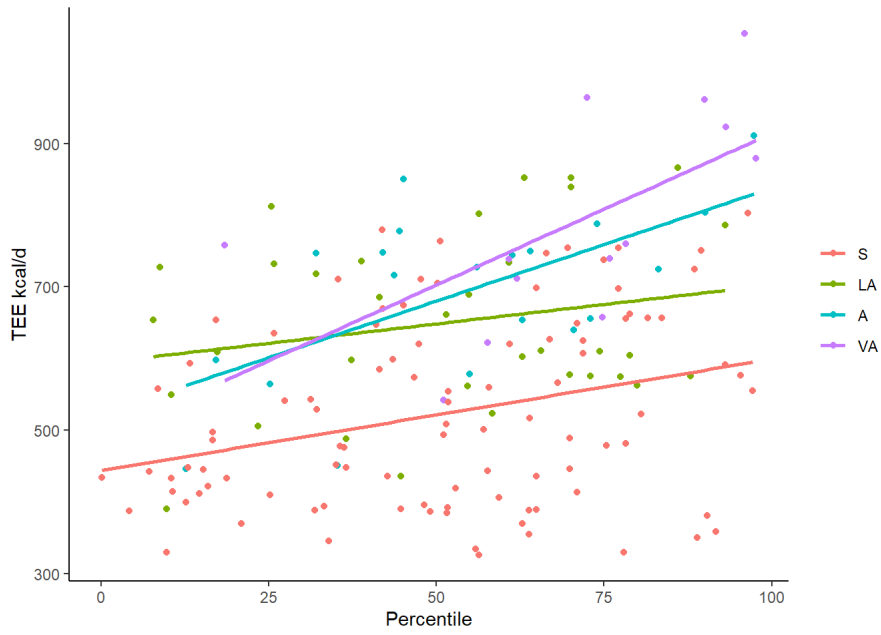
4.5.2 Children

1-8 years old
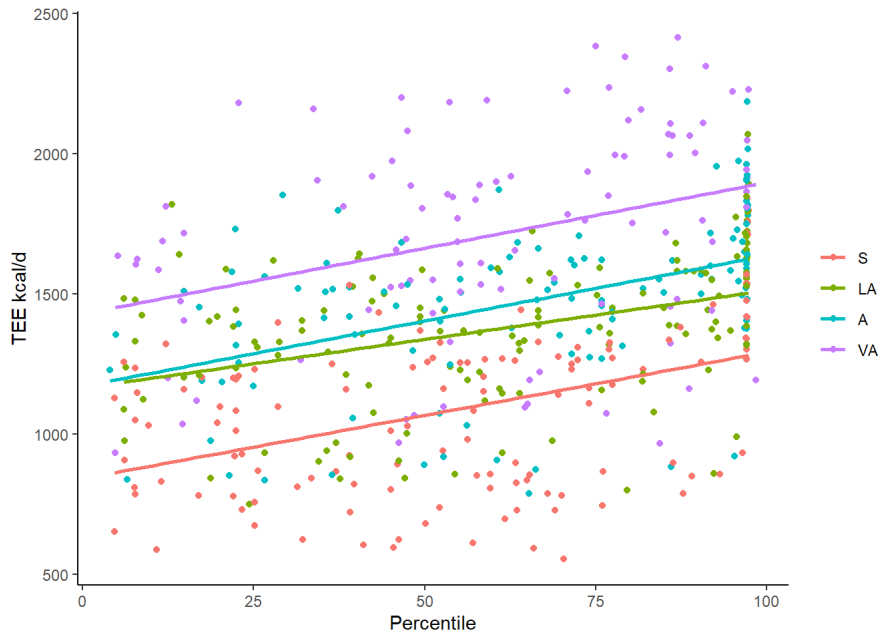
4.5.3 Teenagers

9-18 years old
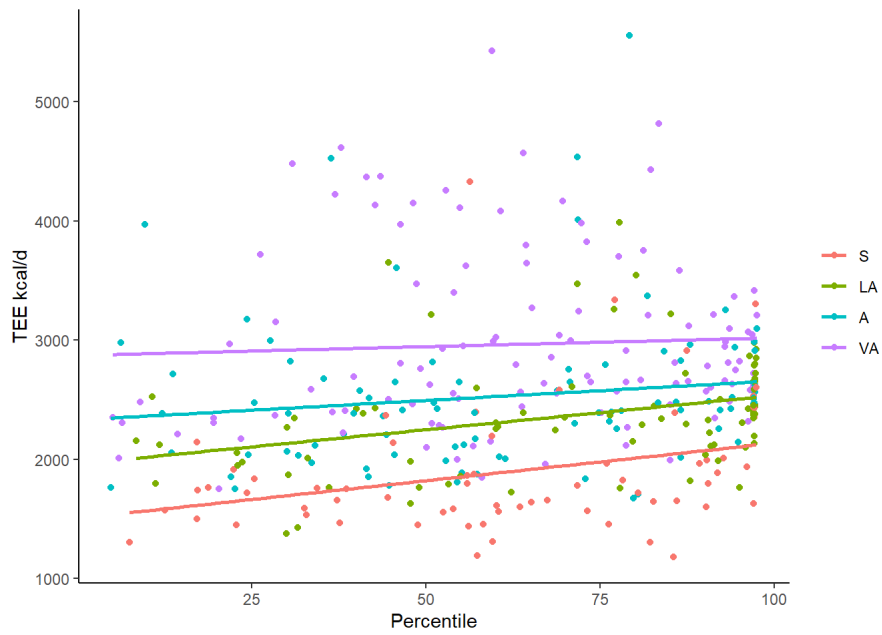
4.5.4 Adults

19+ years old

PAL notes

For 3.0=<Age<9.0: (*Just for graphic purposes Infants use this PALCAT*)

- Sedentary PAL ≥ 1.0 < 1.31
- Low Active PAL ≥ 1.31 < 1.44
- Active PAL ≥ 1.44 < 1.59
- Very Active PAL ≥ 1.59 < 2.5

For 9.0=<Age<14.0:

- Sedentary PAL ≥ 1.0 < 1.44
- Low Active PAL ≥ 1.44 < 1.60
- Active PAL ≥ 1.60 < 1.77
- Very Active PAL ≥ 1.77 < 2.5

For 14.0=<Age<19.0:

- Sedentary PAL ≥ 1.0 < 1.57
- Low Active PAL ≥ 1.57 < 1.74
- Active PAL ≥ 1.74 < 1.94
- Very Active PAL ≥ 1.94 < 2.5

For Age>=19: (*Note that these are based on percentiles of 19 to 70.99, but 71+ use these too*)

- Sedentary PAL ≥ 1.0 < 1.53
- Low Active PAL ≥ 1.53 < 1.69
- Active PAL ≥ 1.69 < 1.85
- Very Active PAL ≥ 1.85 < 2.5

4.6 Height vs Weight

4.6.1 Infants/Children/Teenagers
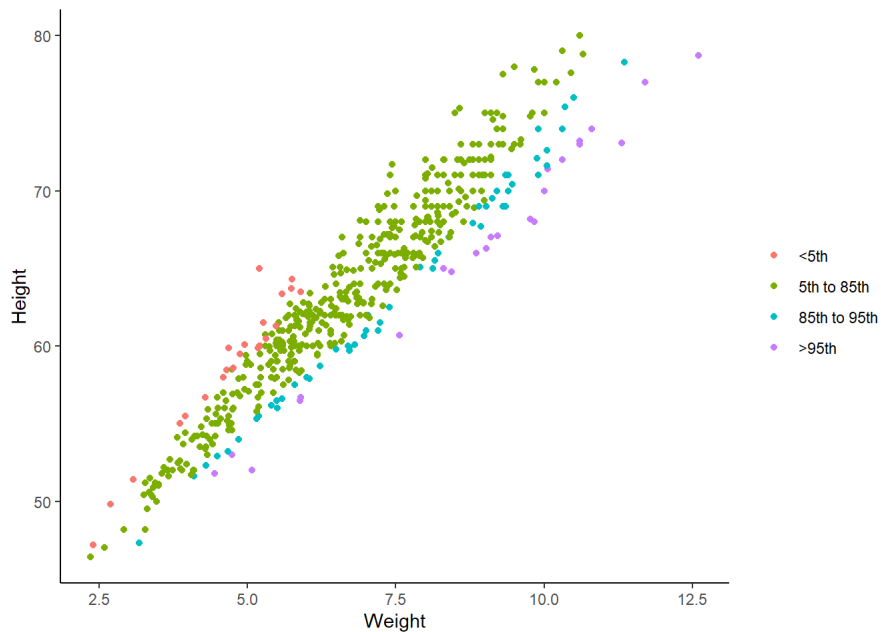
0-11 months old

4.6.2 Children

1-8 years old
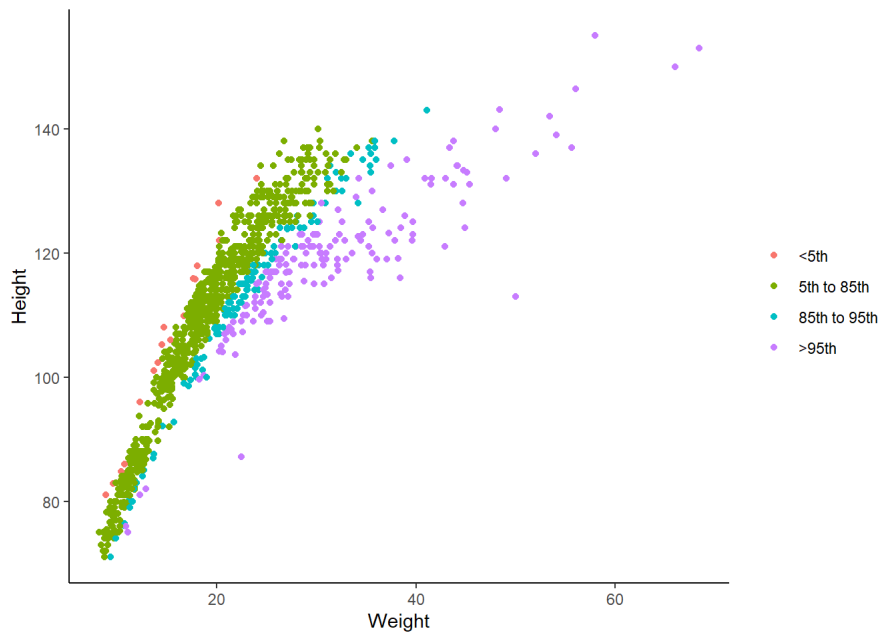
4.6.3 Teenagers

9-18 years old
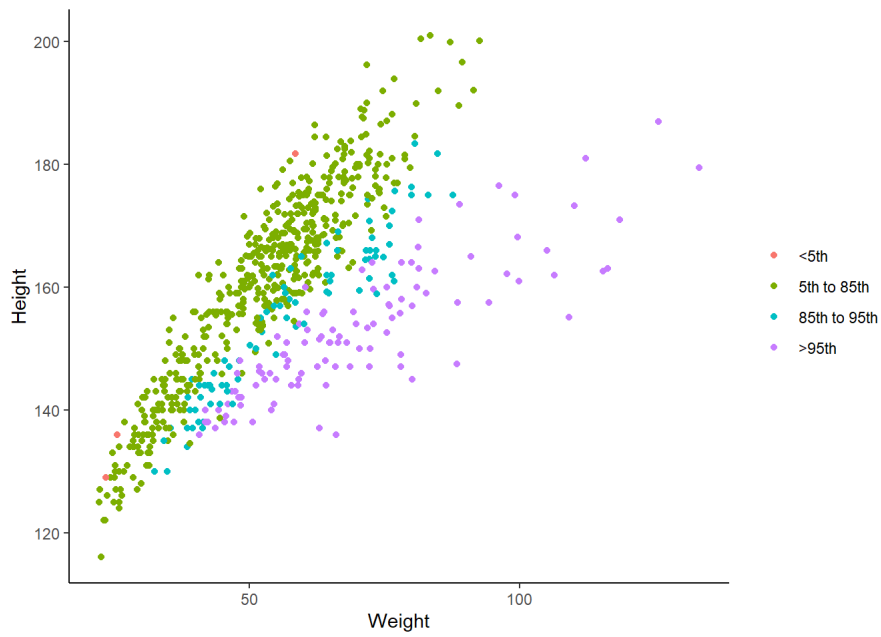
4.6.4 Adults

19+ years old
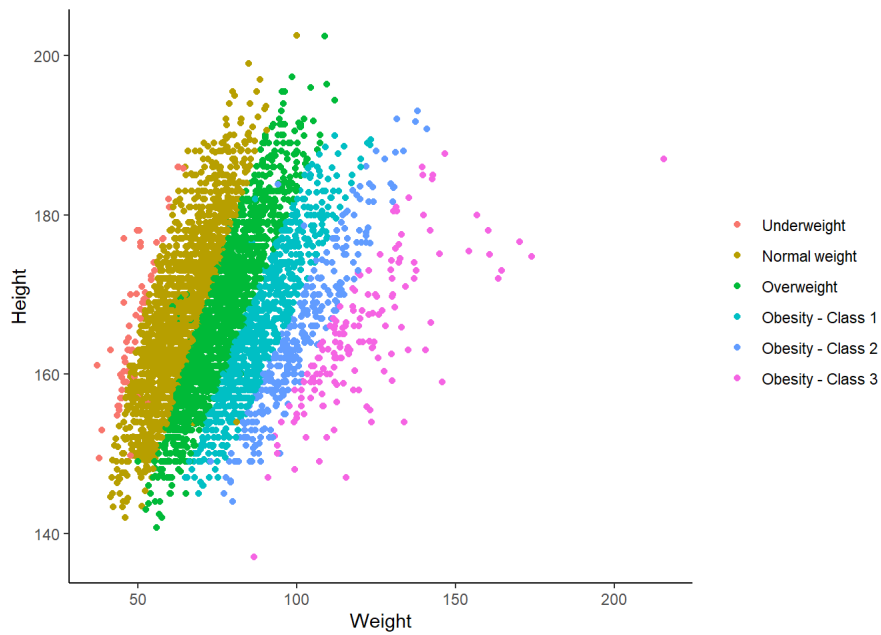
4.7 Weight vs FFM

4.7.1 Infants/Children/Teenagers
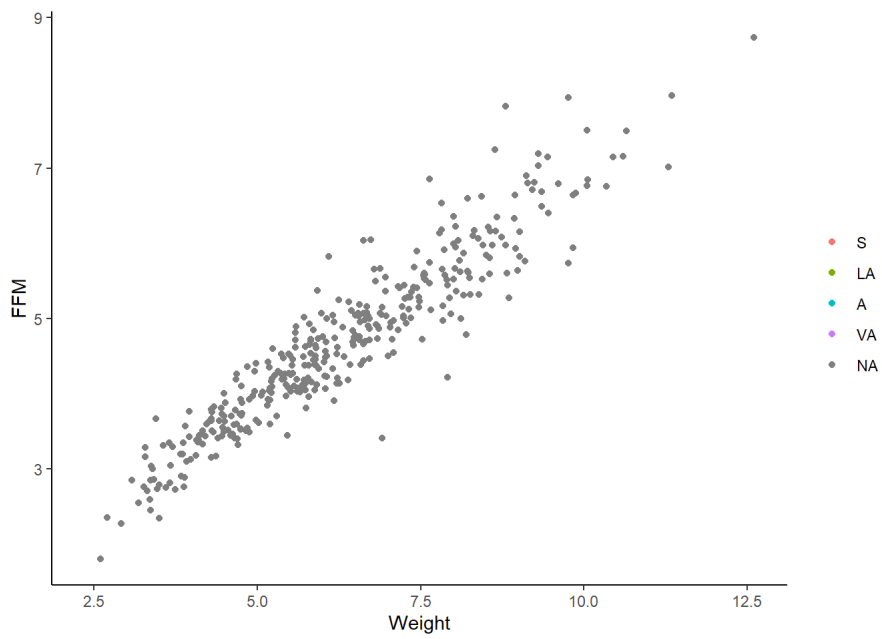
0-11 months old

4.7.2 Children

1-8 years old
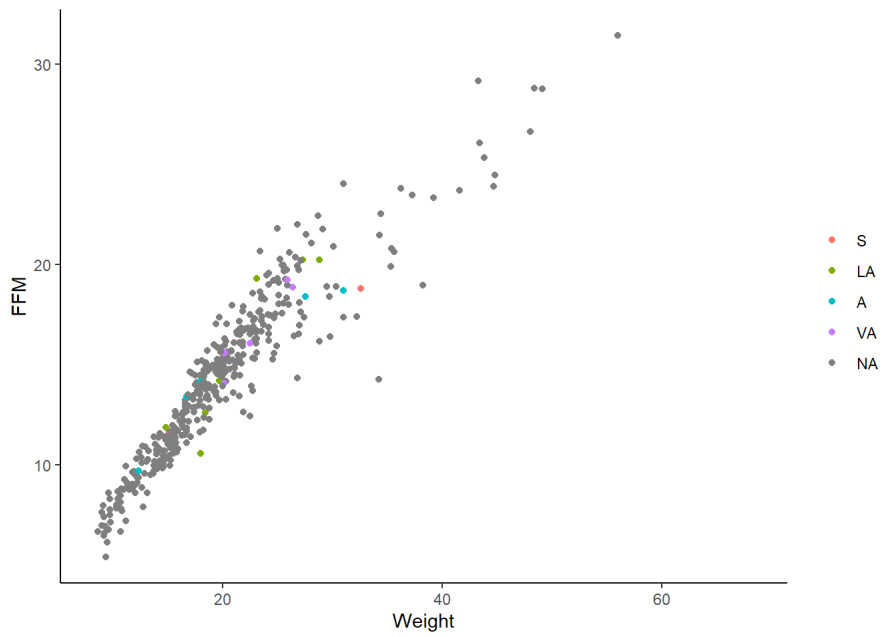
4.7.3 Teenagers

9-18 years old
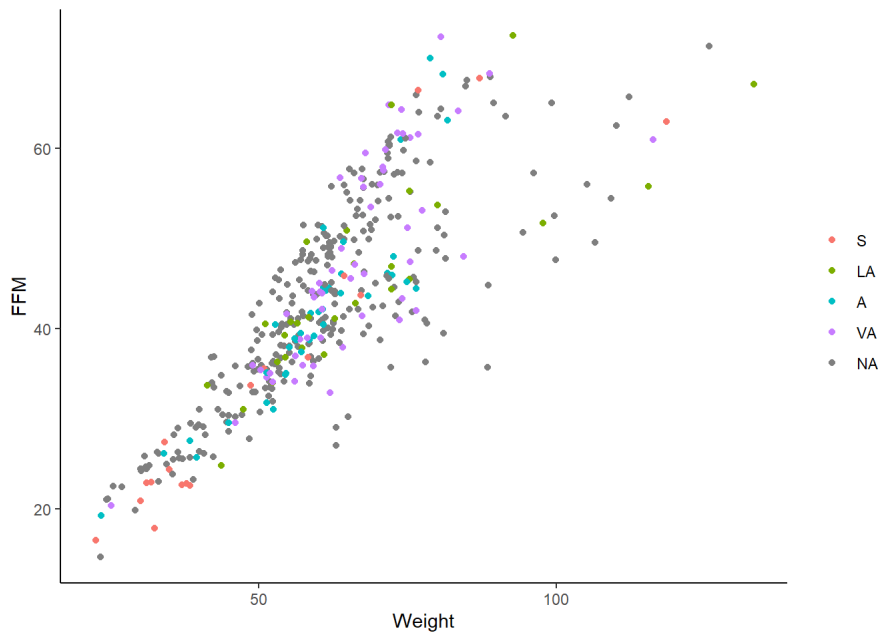
4.7.4 Adults
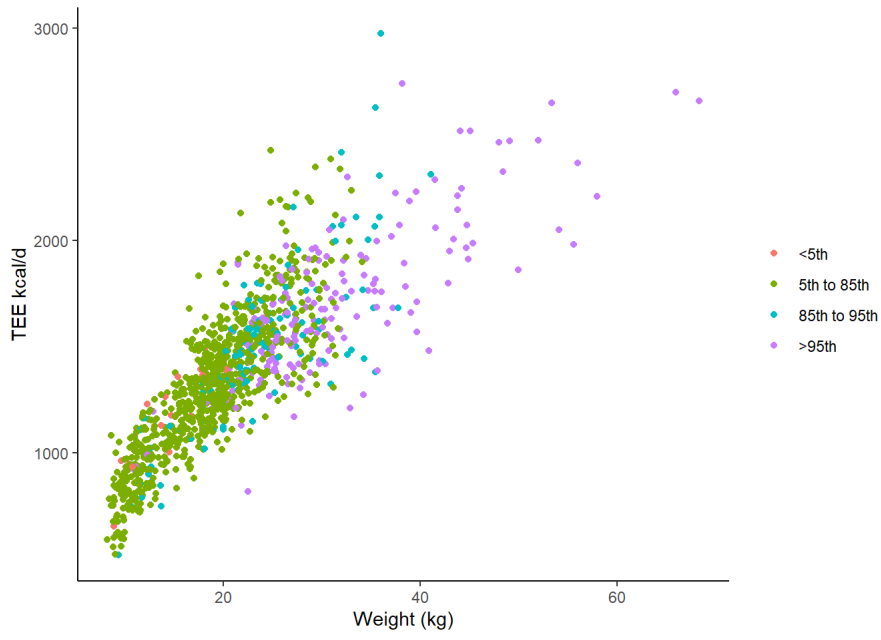
19+ years old
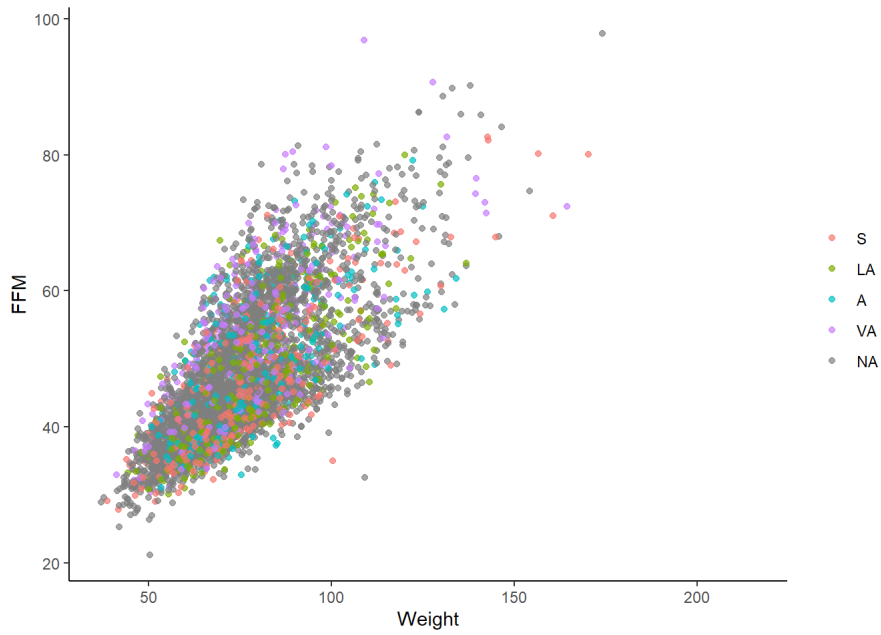
# 4.8 Weight vs FM

4.8.1 Infants/Children/Teenagers
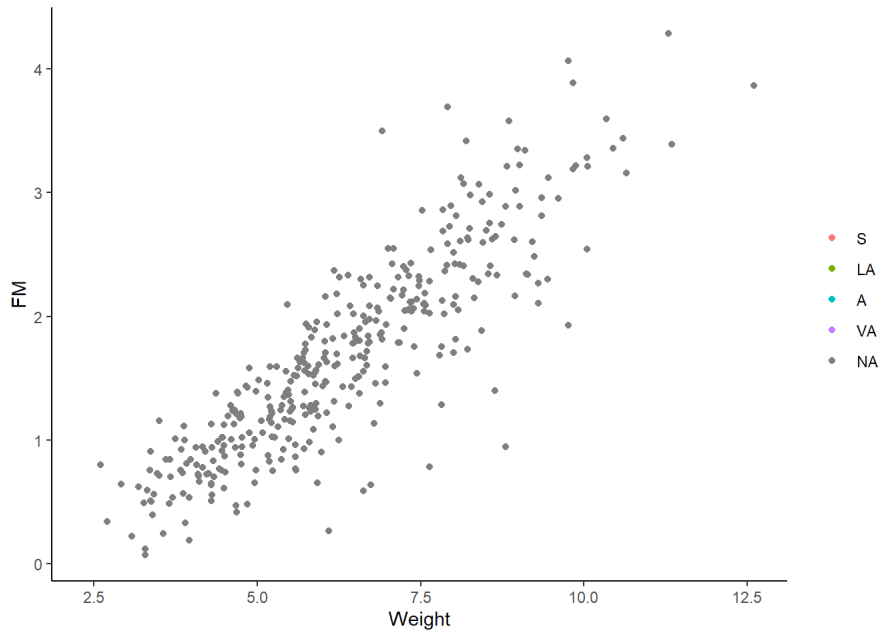
0-11 months old

4.8.2 Children

1-8 years old
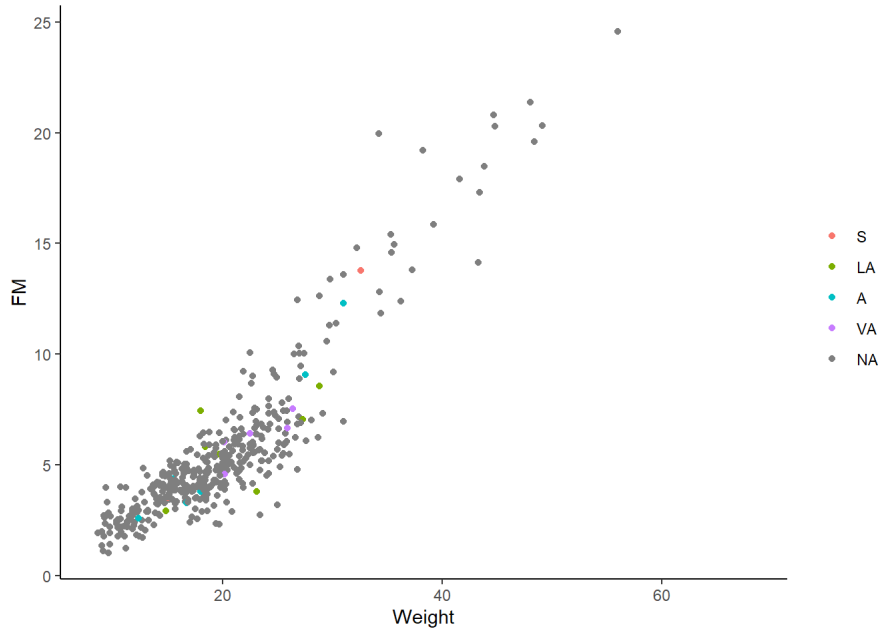
4.8.3 Teenagers

9-18 years old
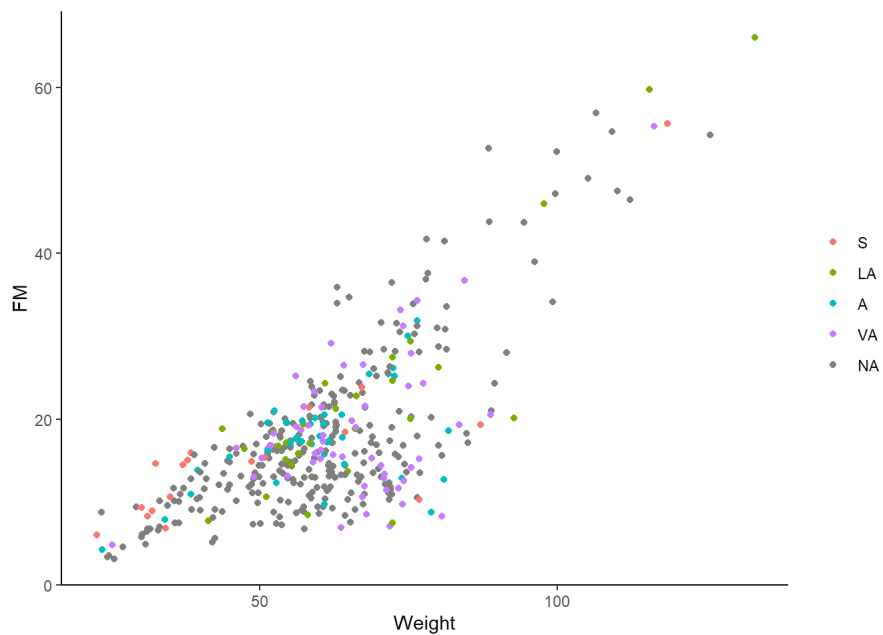
4.8.4 Adults

19+ years old
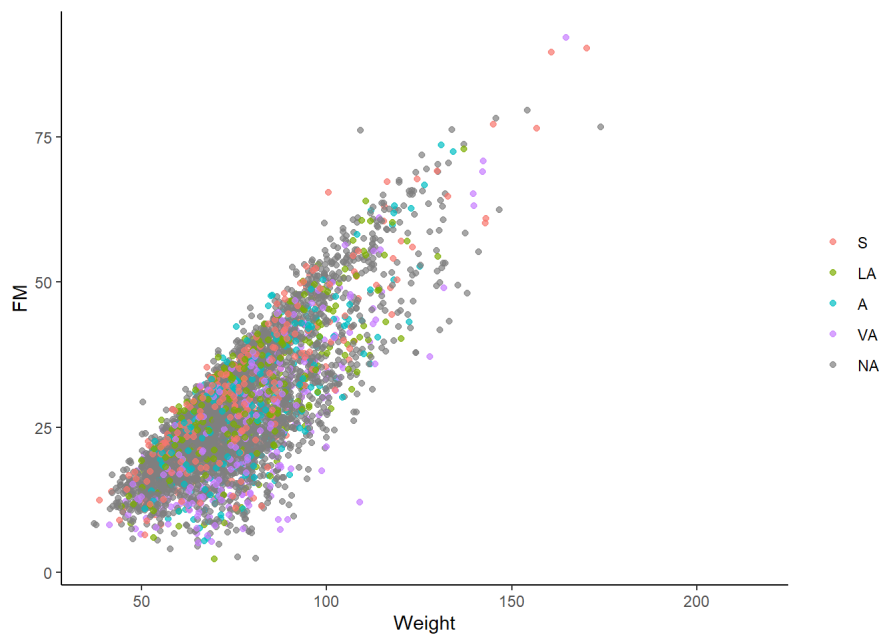
4.9 TEE vs PAL

These data only include participants with observed data for PAL.

4.9.1 Infants

0-11 months old, n=164
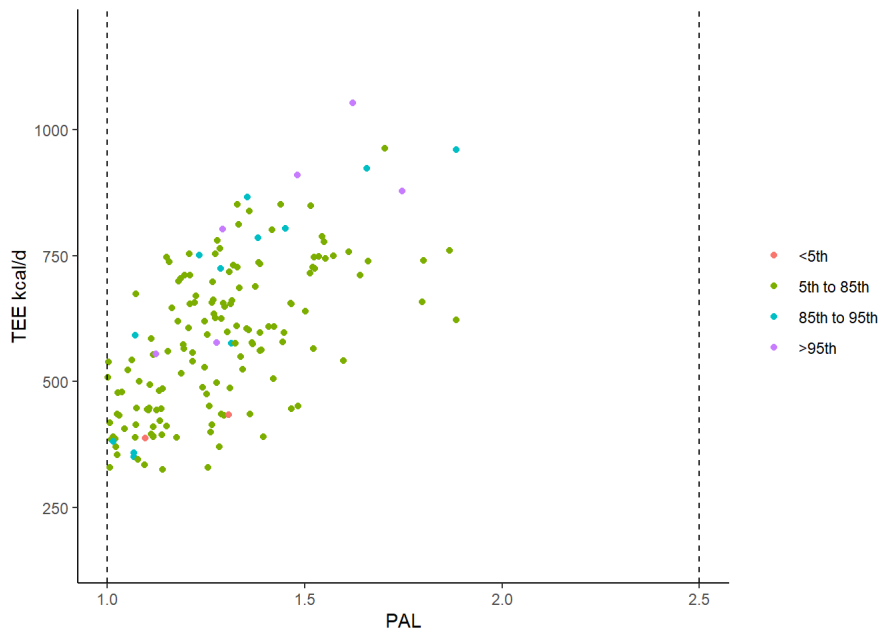
Subjects with PAL<1 and PAL>2.5

Age_cat	Age	Weight	Height	PAL	PAL_obs_est	TEE	BEE	BMR_kcal_Schofield

4.9.2 Children

1-8 years old, n=483
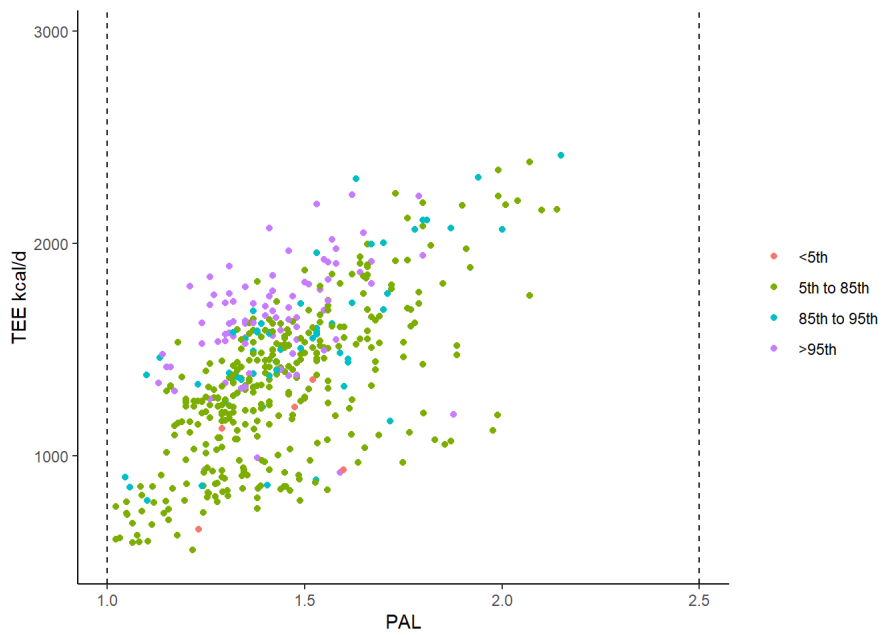
Subjects with PAL<1 and PAL>2.5

Age_cat	Age	Weight	Height	PAL	PAL_obs_est	TEE	BEE	BMR_kcal_Schofield

4.9.3 Teenagers

9-18 years old, n=349
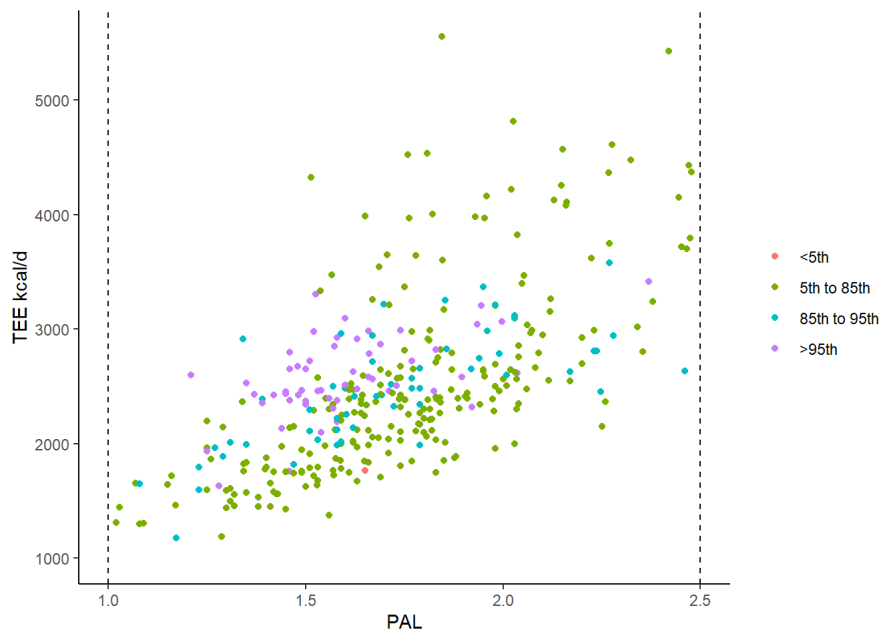
Subjects with PAL<1 and PAL>2.5

Age_cat	Age	Weight	Height	PAL	PAL_obs_est	TEE	BEE	BMR_kcal_Schofield

4.9.4 Adults

19+ years old, n=2359
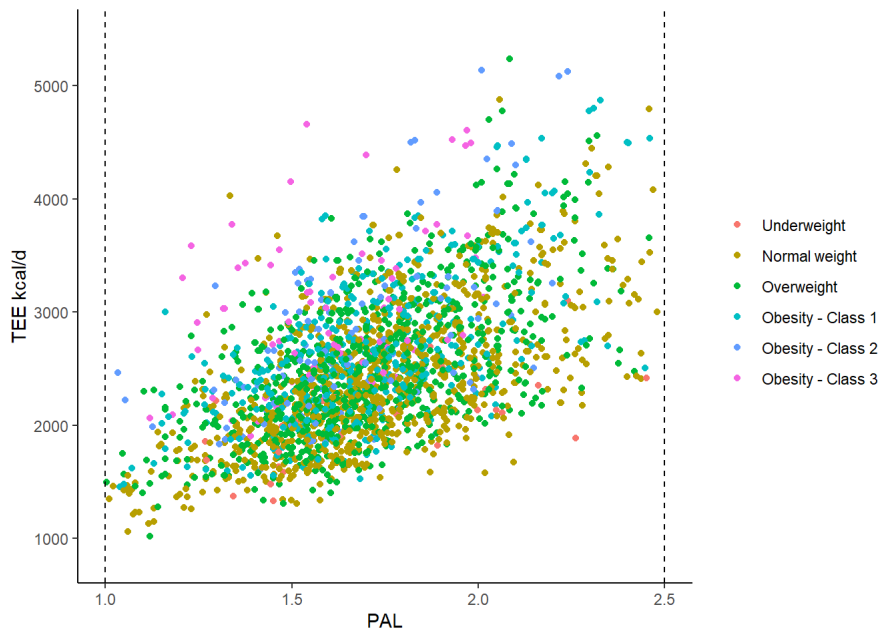
Subjects with PAL<1 and PAL>2.5

Age_cat	Age	Weight	Height	PAL	PAL_obs_est	TEE	BEE	BMR_kcal_Schofield

4.9.5 All combined

0+ years old, n=3364
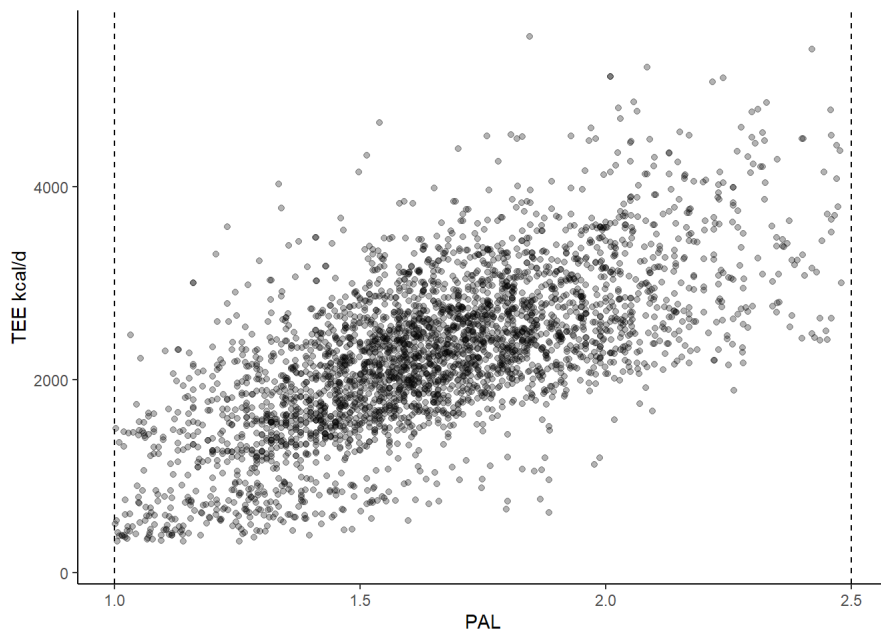
Subjects with PAL<1 and PAL>2.5

Age_cat	Age	Weight	Height	PAL	PAL_obs_est	TEE	BEE	BMR_kcal_Schofield

4.10 PAL percentiles

These data only include participants with observed data for PAL.

By Age category

Percentile	Infants n=164	Children n=487	Teenagers n=354	Adults n=2359
10%	1.06	1.20	1.35	1.39
25%	1.13	1.30	1.53	1.54
50%	1.27	1.41	1.70	1.69
75%	1.39	1.55	1.91	1.87
90%	1.54	1.72	2.12	2.05

By Life Stage

Percentile	0-6 months n=102	7-11 months n=62	1-3 years n=107	4-8 years n=380	9-13 years n=180	14-18 years n=174	19-30 years n=518	31-50 years n=715	51-70 years n=554	>=71 years n=572
10%	1.03	1.12	1.08	1.25	1.30	1.52	1.46	1.45	1.38	1.29
25%	1.11	1.20	1.19	1.32	1.45	1.65	1.59	1.58	1.51	1.47
50%	1.26	1.29	1.32	1.43	1.60	1.83	1.75	1.75	1.64	1.63
75%	1.38	1.42	1.49	1.56	1.77	2.03	1.94	1.93	1.80	1.81
90%	1.52	1.61	1.67	1.73	1.91	2.25	2.16	2.09	1.99	2.01

4.11 PAL vs Age

These data only include participants with observed data for PAL.

4.11.1 Infants

0-11 months old
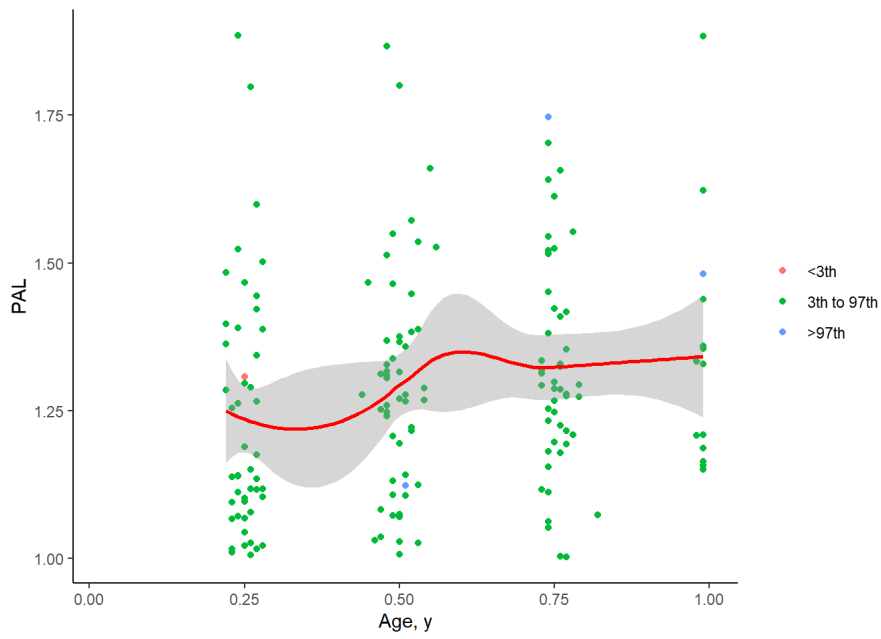
4.11.2 Children

1-8 years old
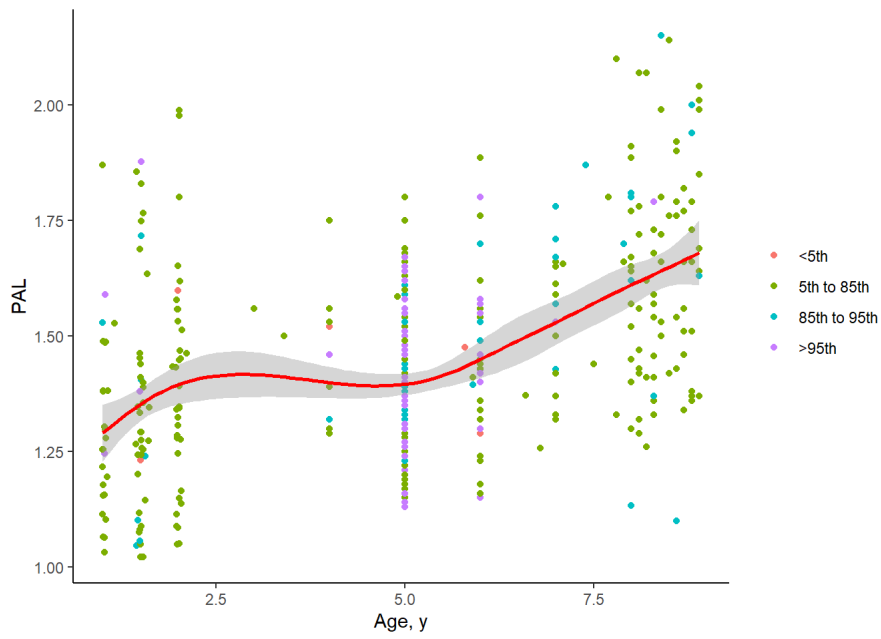
4.11.3 Teenagers

9-18 years old
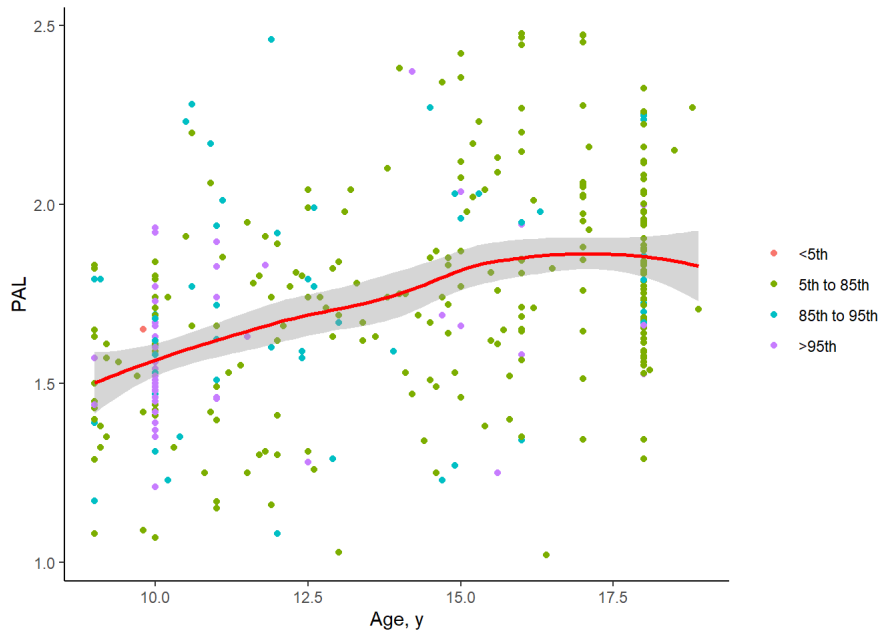
4.11.4 Adults

19+ years old
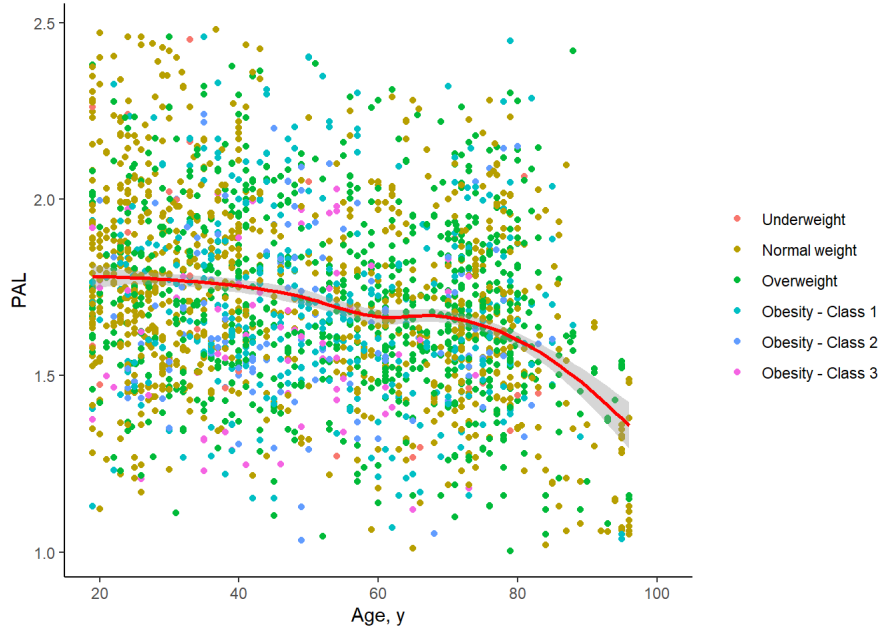
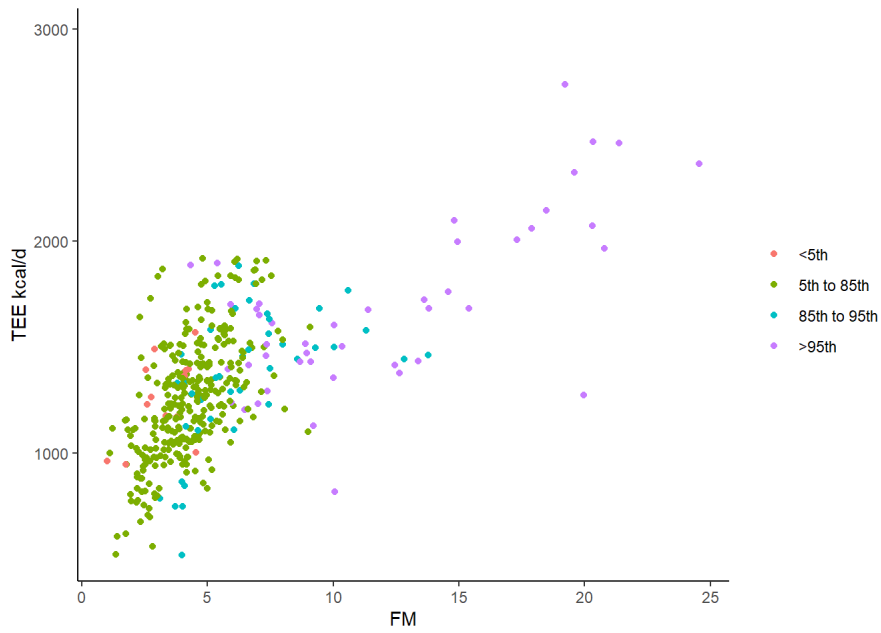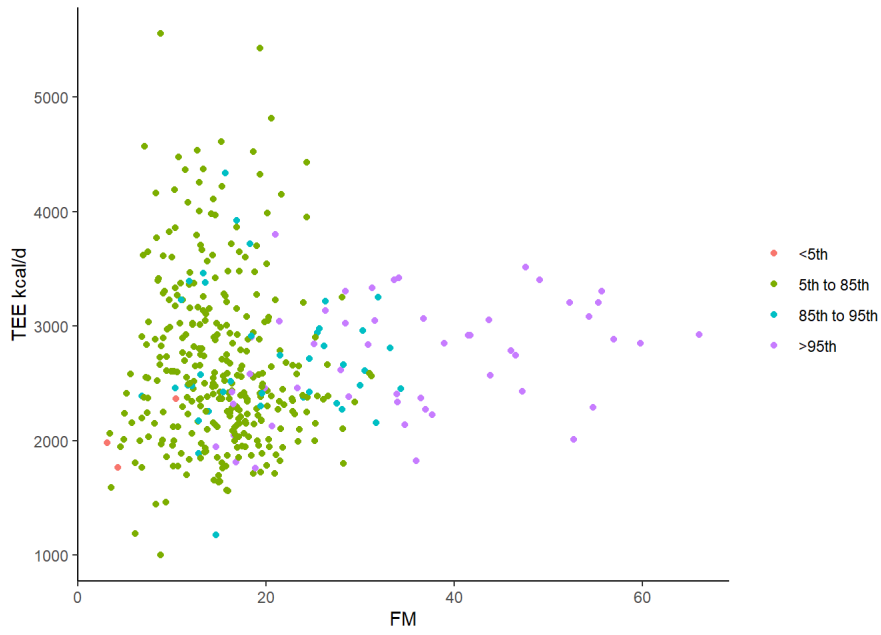## 4.11.5 All combined

0+ years old
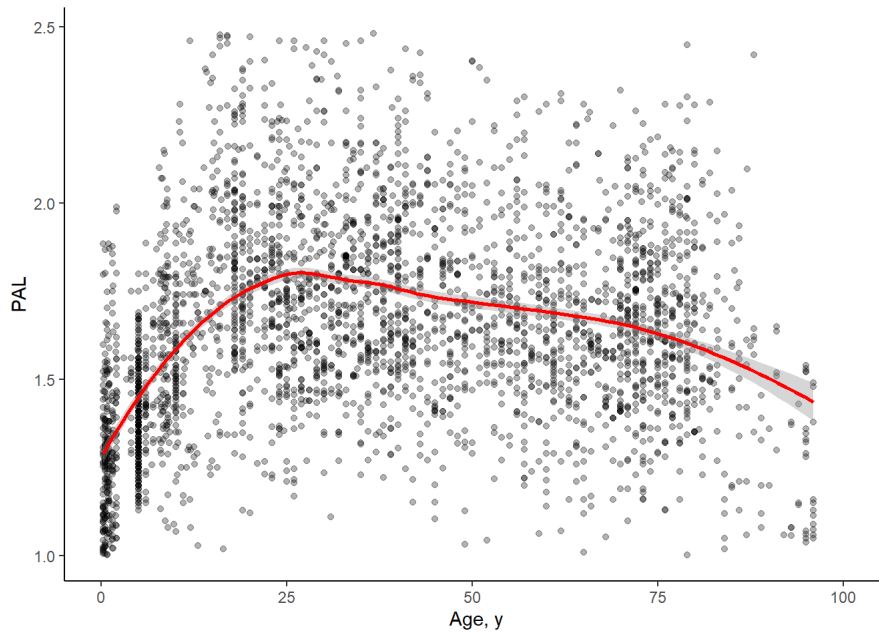
4.12 TEE vs PAL_obs_est

These data include all participants, where observed PAL is used where available (=TEE/BEE), and PAL is otherwise estimated by Schofield equations for BMR.

4.12.1 Infants

0-11 months old, n=554
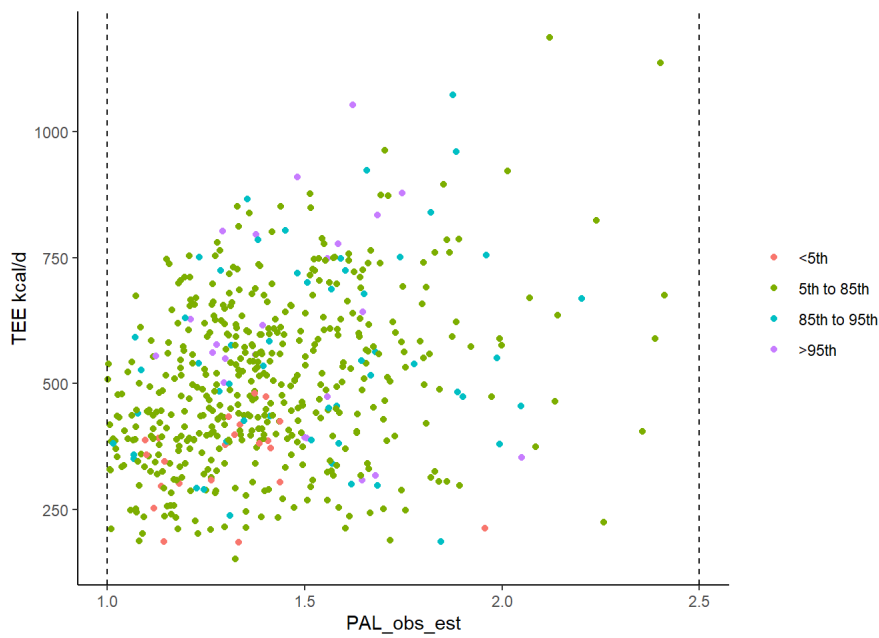
Subjects with PAL_obs_est<1 and PAL_obs_est>2.5

Age_cat	Age	Weight	Height	PAL_obs_est	PAL	TEE	BEE	BMR_kcal_Schofield

4.12.2 Children

1-8 years old, n=1100
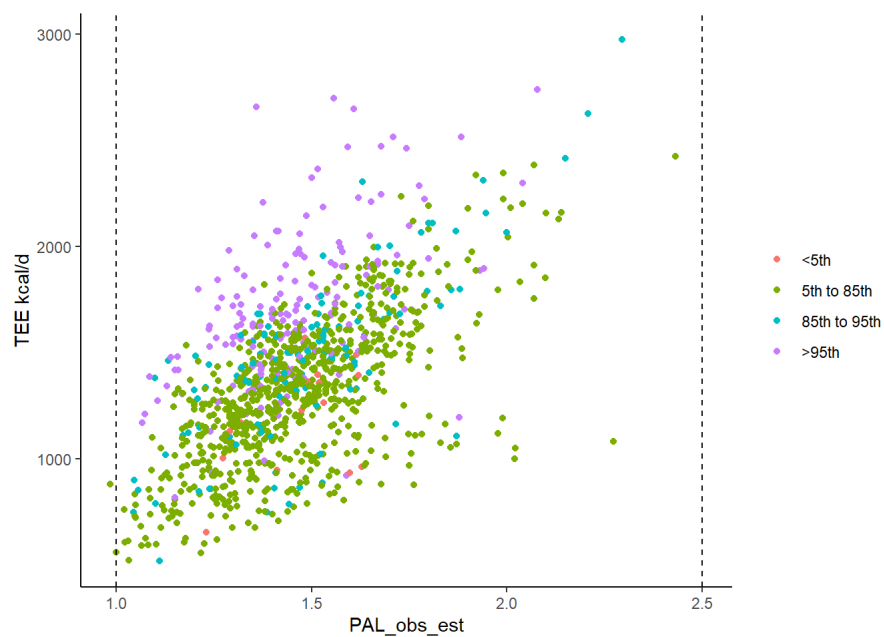
Subjects with PAL_obs_est<1 and PAL_obs_est>2.5

Age_cat	Age	Weight	Height	PAL_obs_est	PAL	TEE	BEE	BMR_kcal_Schofield
Children	6	17.03	109.967	0.985	NA	878.657	NA	891.982

4.12.3 Teenagers

9-18 years old, n=692
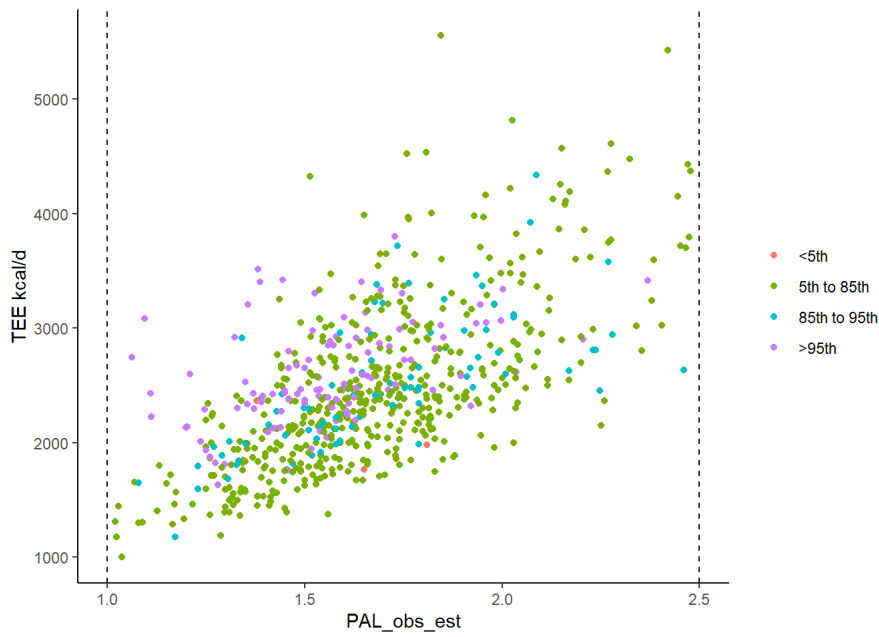
Subjects with PAL_obs_est<1 and PAL_obs_est>2.5

Age_cat	Age	Weight	Height	PAL_obs_est	PAL	TEE	BEE	BMR_kcal_Schofield

4.12.4 Adults

19+ years old, n=5440
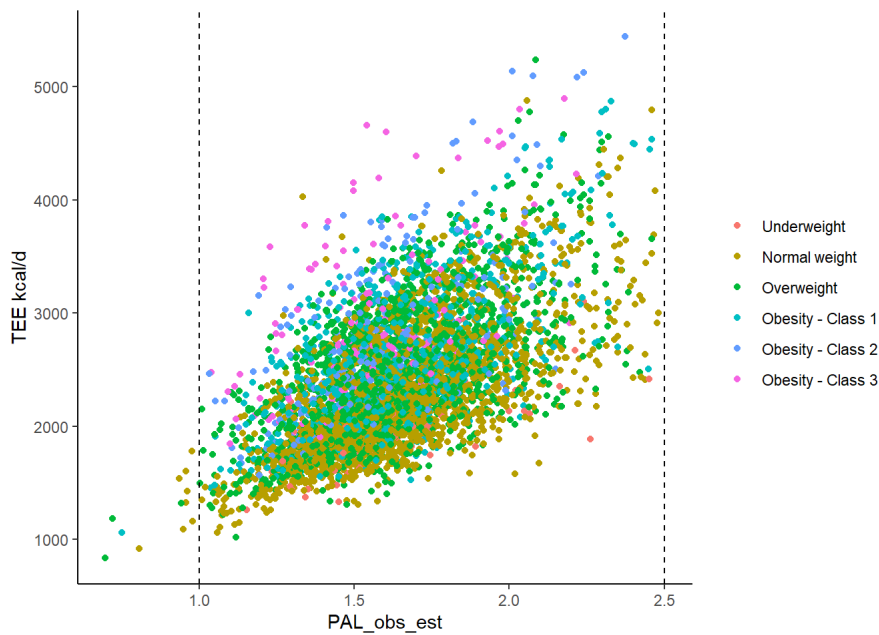
Subjects with PAL_obs_est<1 and PAL_obs_est>2.5

Age_cat	Age	Weight	Height	PAL_obs_est	PAL	TEE	BEE	BMR_kcal_Schofield
Adults	91	61.3	151.1	0.699	NA	833.807	NA	1193.472
Adults	89	86.0	174.2	0.720	NA	1181.612	NA	1640.405
Adults	72	82.5	162.0	0.752	NA	1060.906	NA	1410.621
Adults	91	50.4	157.5	0.808	NA	918.322	NA	1136.825
Adults	96	63.4	164.0	0.935	NA	1538.195	1644.359	1269.140
Adults	59	57.4	149.0	0.944	NA	1319.998	1399.000	1312.271
Adults	79	51.0	158.0	0.950	NA	1087.089	NA	1143.848

4.12.5 All combined

0+ years old, n=7795
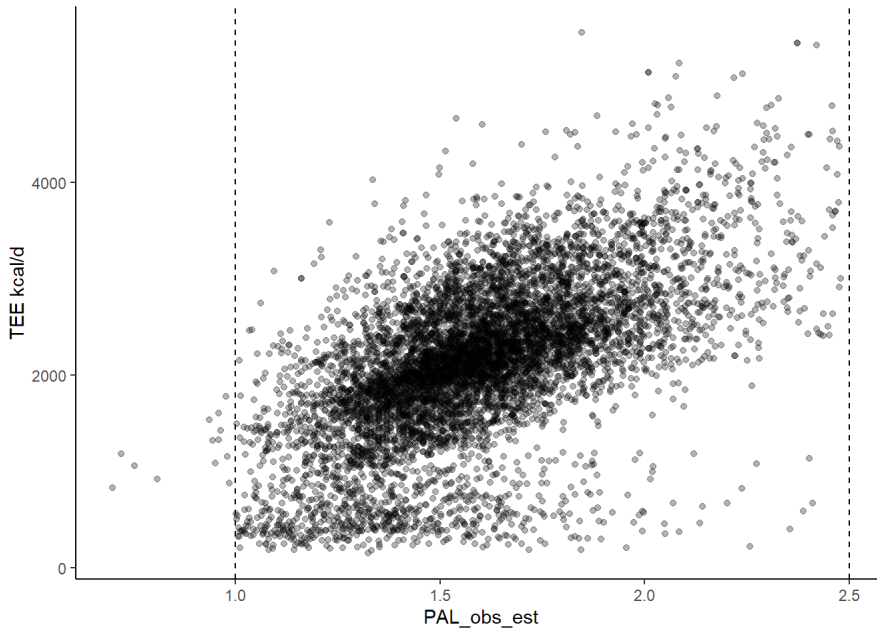
Subjects with PAL_obs_est<1 and PAL_obs_est>2.5

Age_cat	Age	Weight	Height	PAL_obs_est	PAL	TEE	BEE	BMR_kcal_Schofield
Adults	91	61.30	151.100	0.699	NA	833.807	NA	1193.472
Adults	89	86.00	174.200	0.720	NA	1181.612	NA	1640.405
Adults	72	82.50	162.000	0.752	NA	1060.906	NA	1410.621
Adults	91	50.40	157.500	0.808	NA	918.322	NA	1136.825
Adults	96	63.40	164.000	0.935	NA	1538.195	1644.359	1269.140
Adults	59	57.40	149.000	0.944	NA	1319.998	1399.000	1312.271
Adults	79	51.00	158.000	0.950	NA	1087.089	NA	1143.848

4.13 PAL_obs_est Percentiles

These data include all participants, where observed PAL is used where available (=TEE/BEE), and PAL is otherwise estimated by Schofield equations for BMR.

By Age category

Percentile	Infants n=554	Children n=1104	Teenagers n=697	Adults n=5440
10%	1.12	1.22	1.33	1.34

Percentile	Infants n=554	Children n=1104	Teenagers n=697	Adults n=5440
25%	1.23	1.32	1.48	1.47
50%	1.38	1.45	1.64	1.61
75%	1.57	1.58	1.82	1.79
90%	1.75	1.72	2.03	1.98

By Life Stage

Percentile	0-6 months n=442	7-11 months n=112	1-3 years n=243	4-8 years n=861	9-13 years n=302	14-18 years n=395	19-30 years n=978	31-50 years n=1669	51-70 years n=1516	>=71 years n=1277
10%	1.11	1.15	1.12	1.25	1.30	1.38	1.33	1.38	1.37	1.28
25%	1.23	1.23	1.25	1.35	1.43	1.53	1.47	1.50	1.49	1.40
50%	1.38	1.36	1.38	1.46	1.59	1.69	1.64	1.64	1.61	1.55
75%	1.57	1.58	1.53	1.60	1.74	1.89	1.84	1.82	1.75	1.71
90%	1.76	1.70	1.68	1.73	1.91	2.09	2.04	2.01	1.93	1.90

4.14 PAL_obs_est vs Age

These data include all participants, where observed PAL is used where available (=TEE/BEE), and PAL is otherwise estimated by Schofield equations for BMR.

4.14.1 Infants

0-11 months old
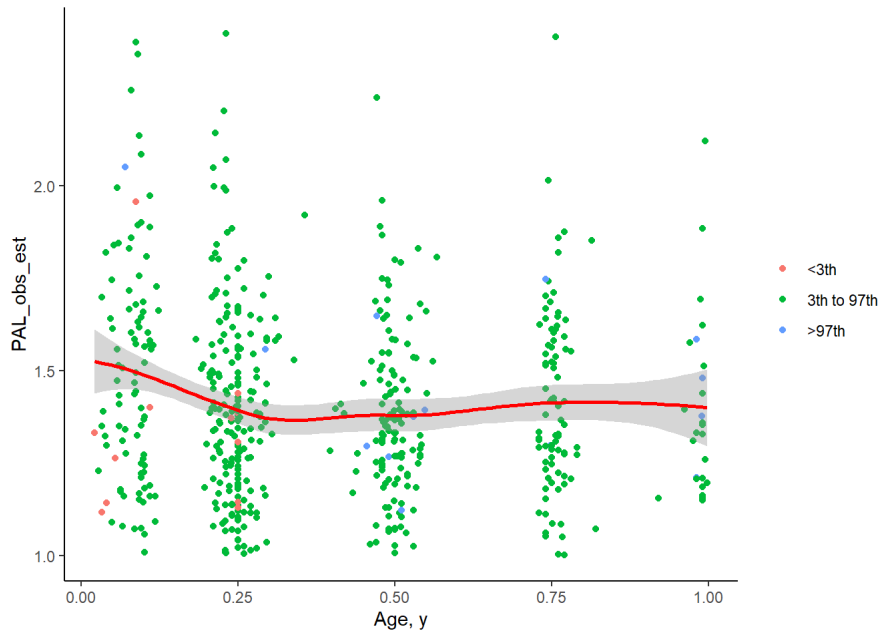
4.14.2 Children

1-8 years old
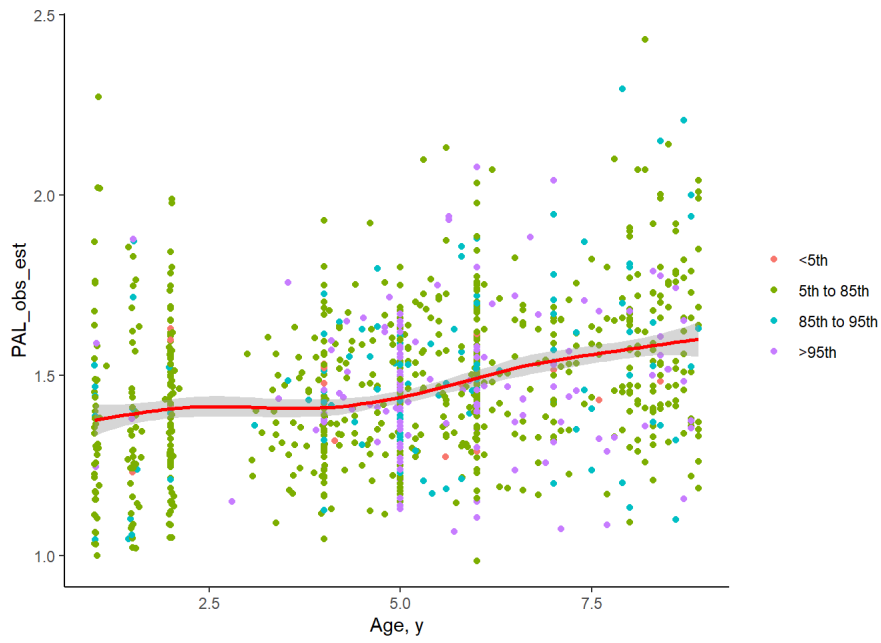
4.14.3 Teenagers

9-18 years old
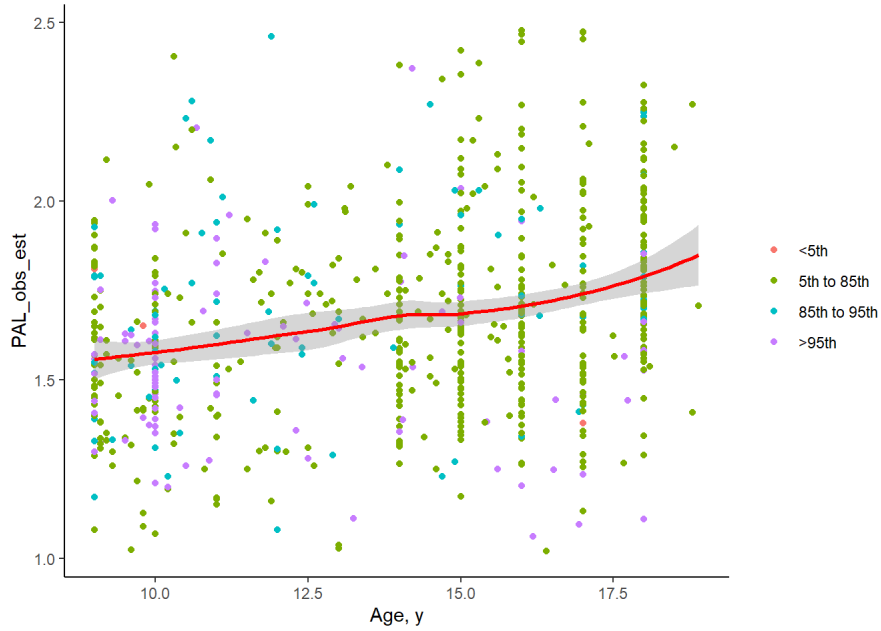
4.14.4 Adults

19+ years old
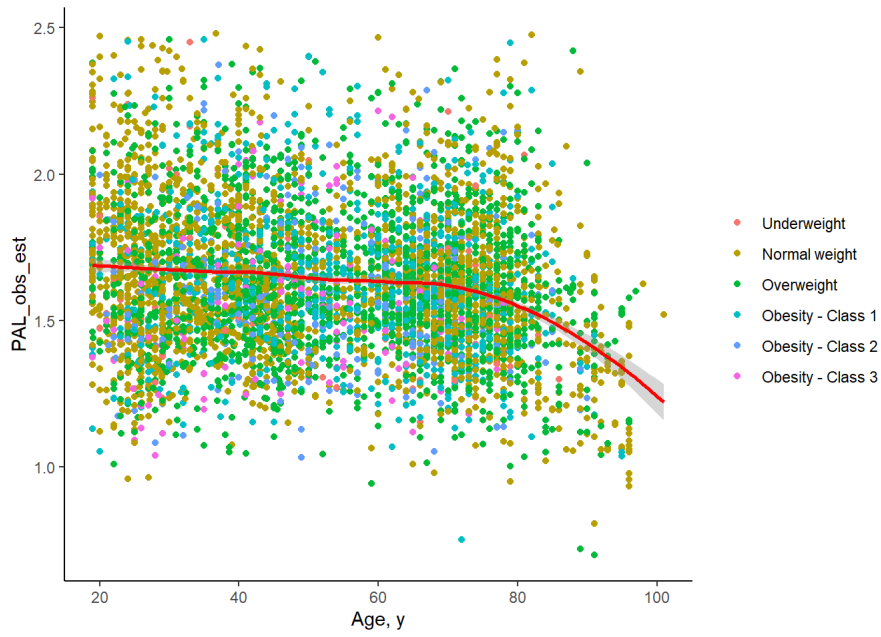
4.14.5 All combined

0+ years old
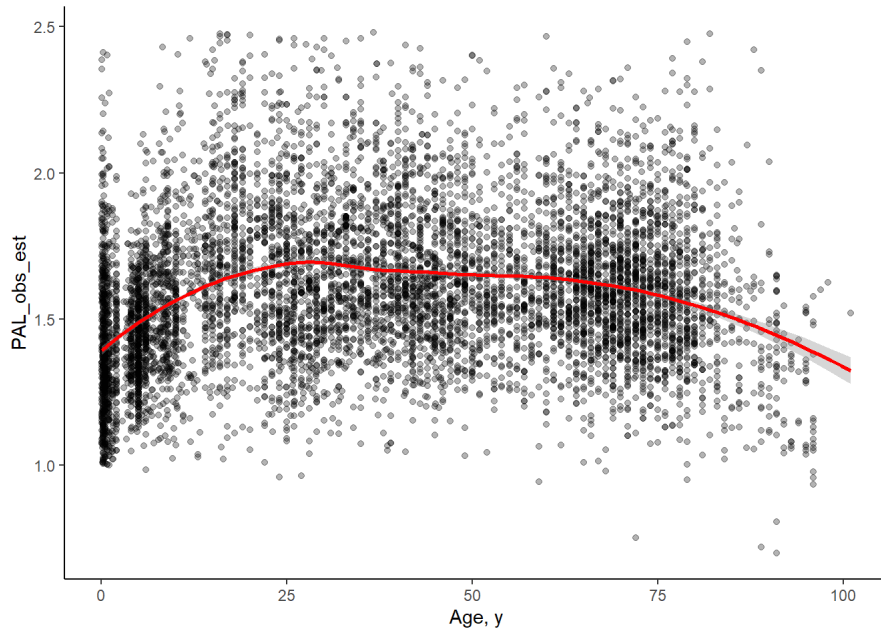

4.15 PAL_est vs PAL

These data only include participants with observed data for PAL, and PAL_est is estimated by Schofield equations for BMR.

4.15.1 Infants

0-11 months old
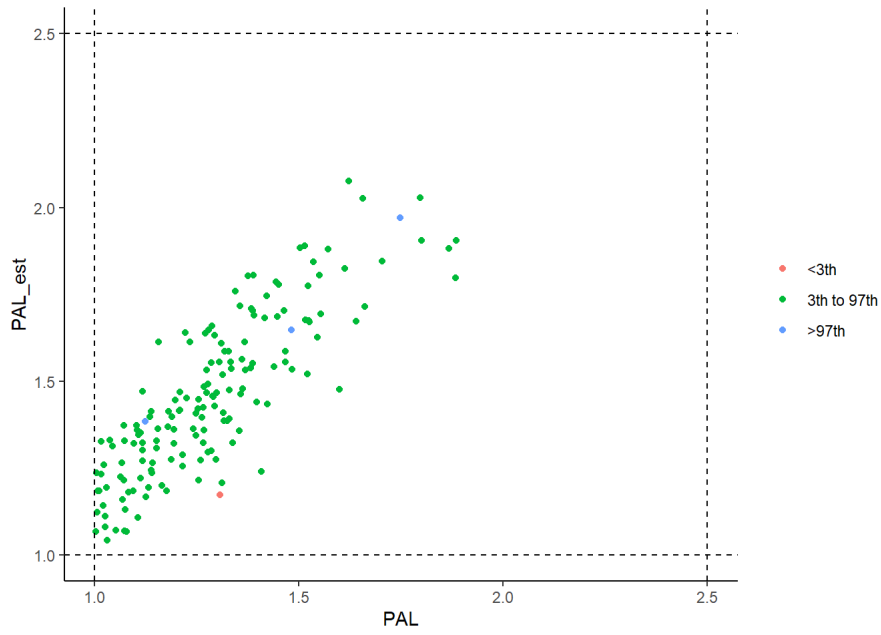
Correlation
0.8422

4.15.2 Children

1-8 years old
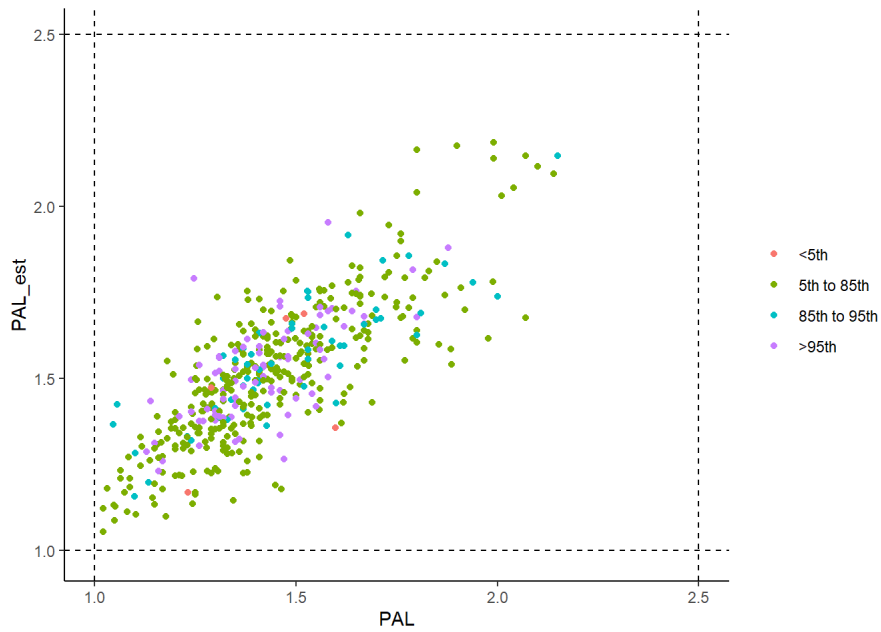
Correlation
0.796

4.15.3 Teenagers

9-18 years old
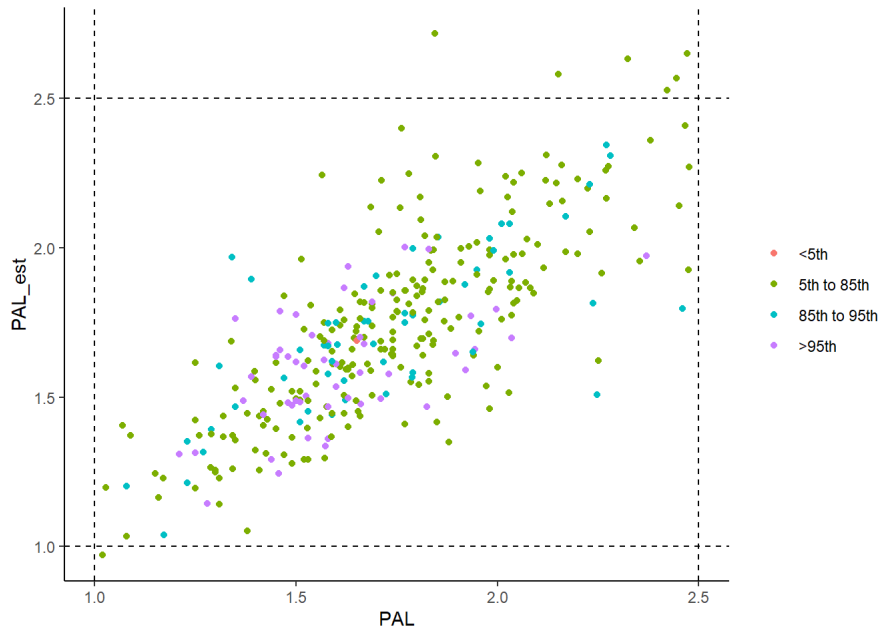
Correlation
0.7571

4.15.4 Adults

19+ years old
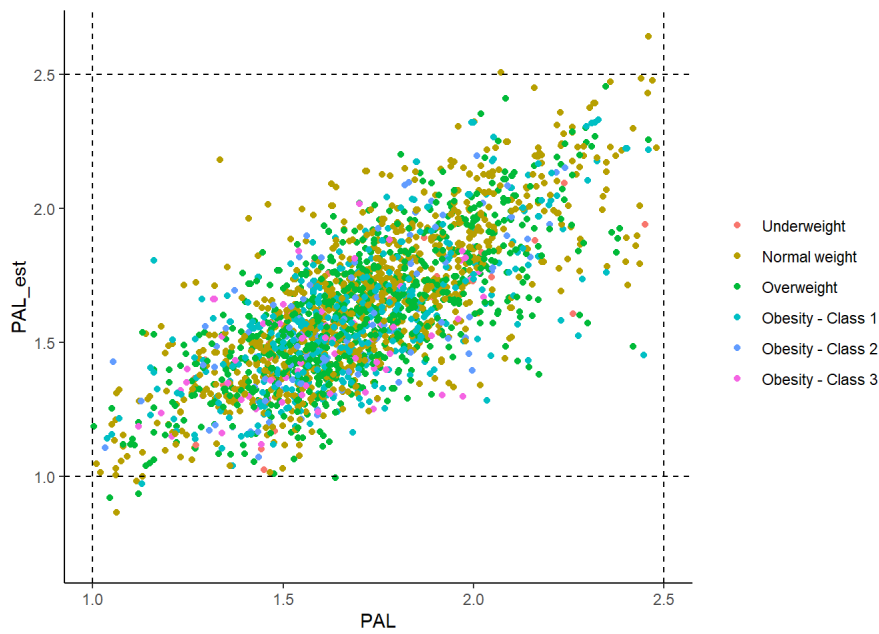
Correlation
0.7246

4.15.5 All combined

0+ years old
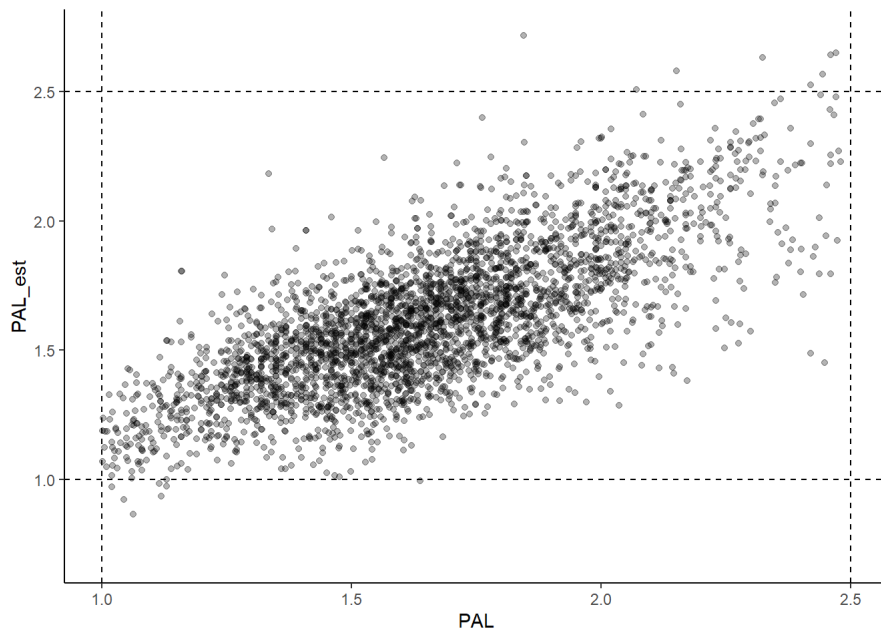
| Correlation |
| --- |
| 0.7368 |

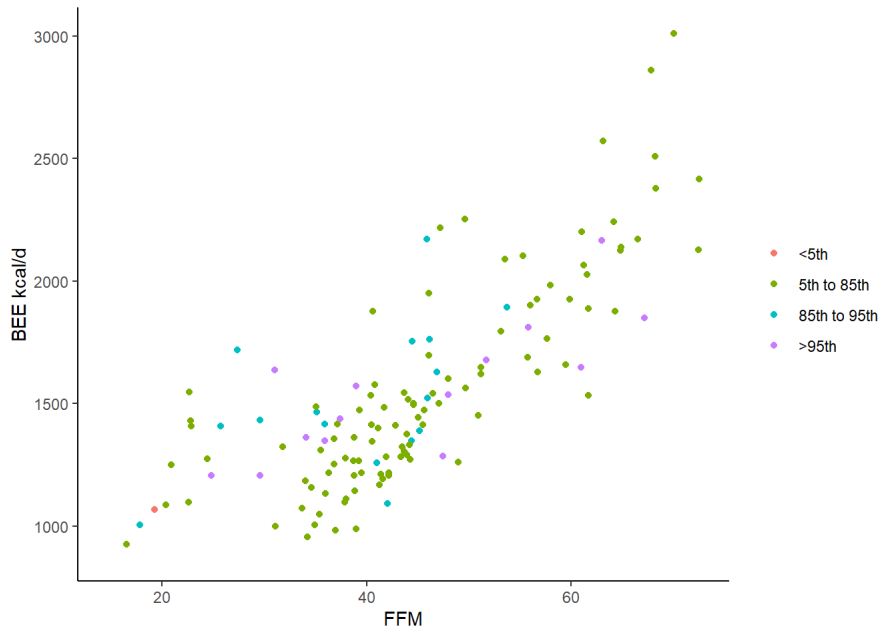## 4.16 TEE vs BEE

4.16.1 Infants

0-11 months old
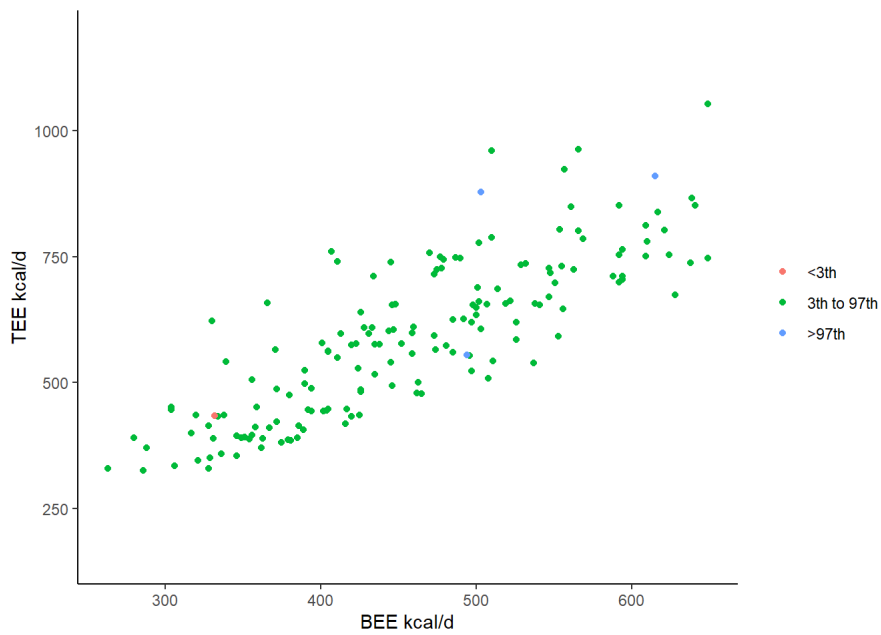
4.16.2 Children

1-8 years old
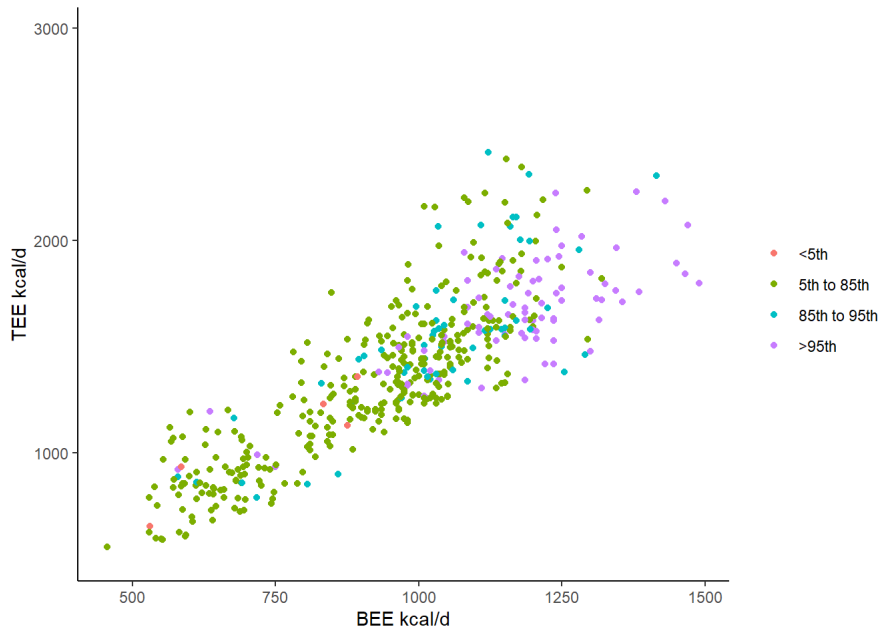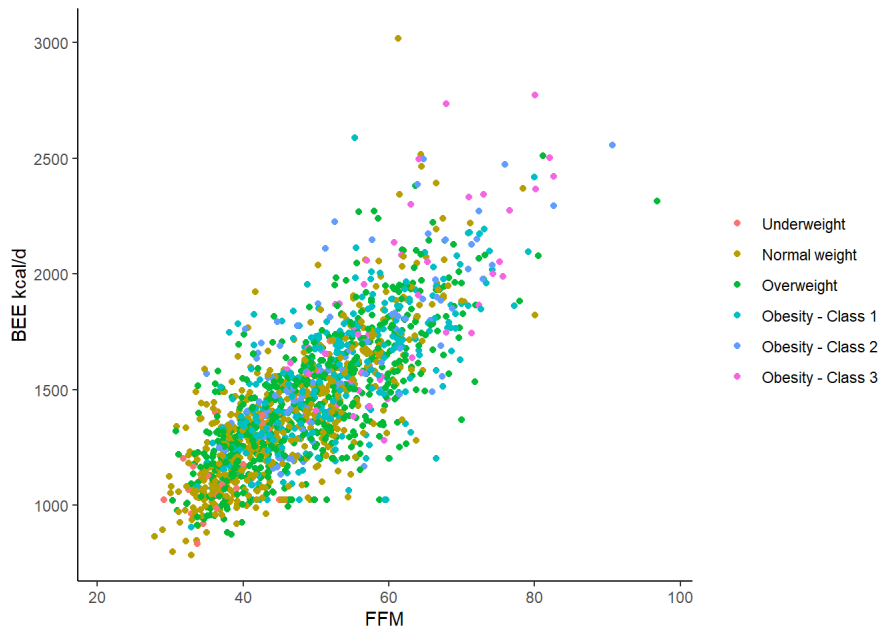
4.16.3 Teenagers

9-18 years old
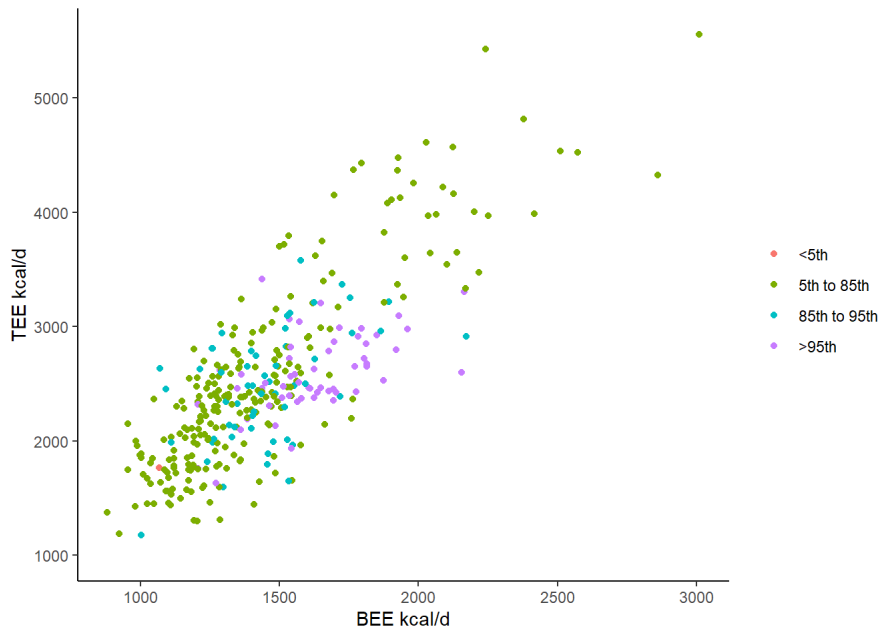
4.16.4 Adults

19+ years old
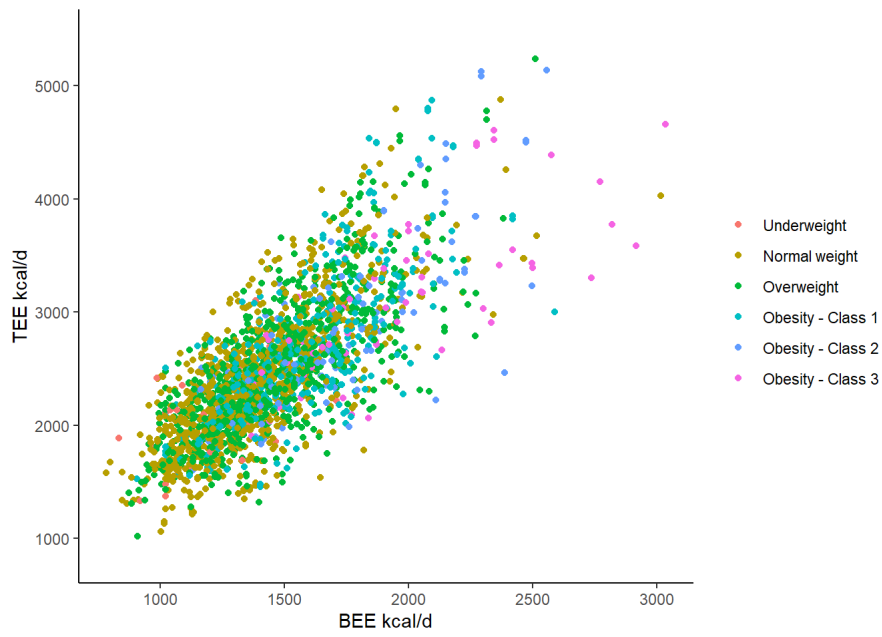
4.16.5 All combined

0+ years old
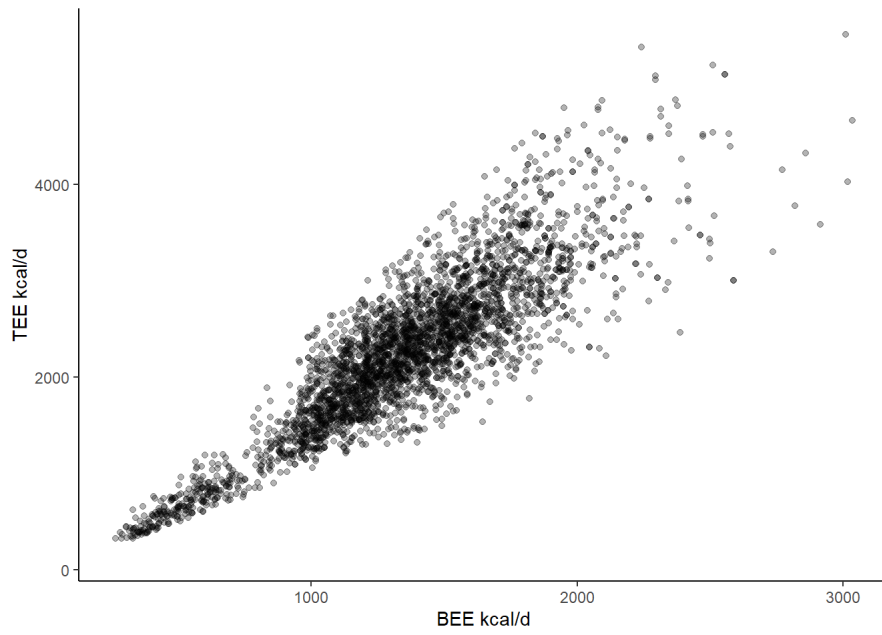
4.17 TEE vs BMR Schofield

4.17.1 Infants

0-11 months old
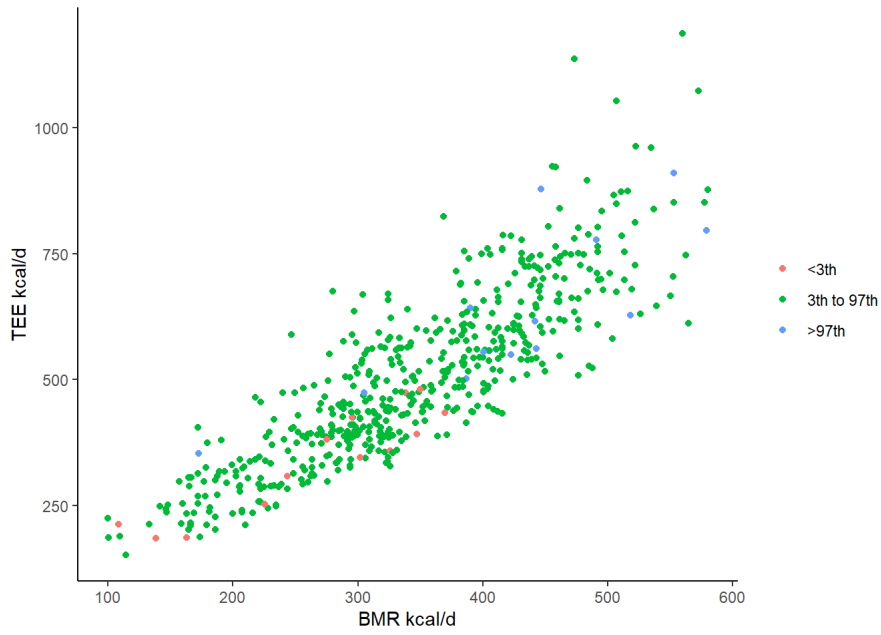
4.17.2 Children

1-8 years old
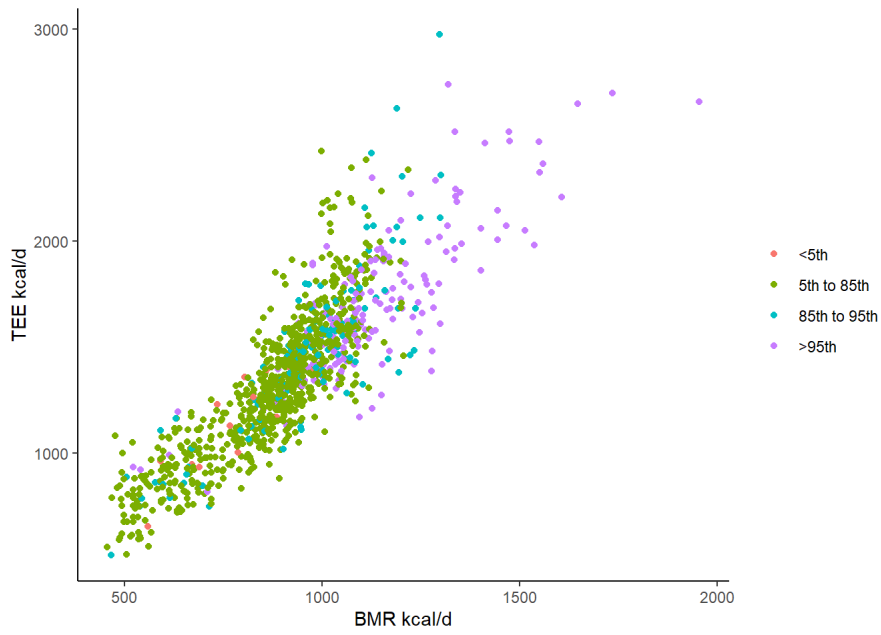
4.17.3 Teenagers

9-18 years old
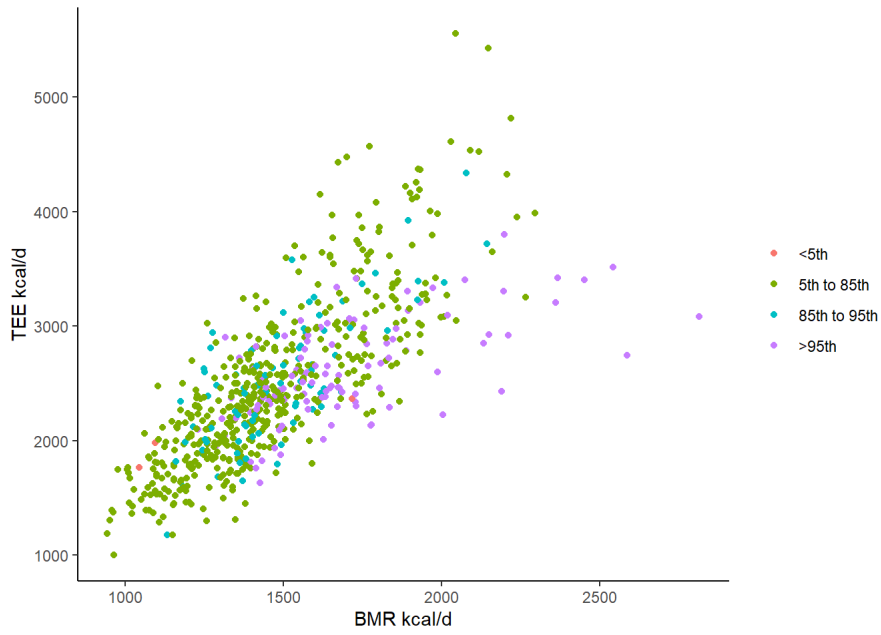
4.17.4 Adults

19+ years old
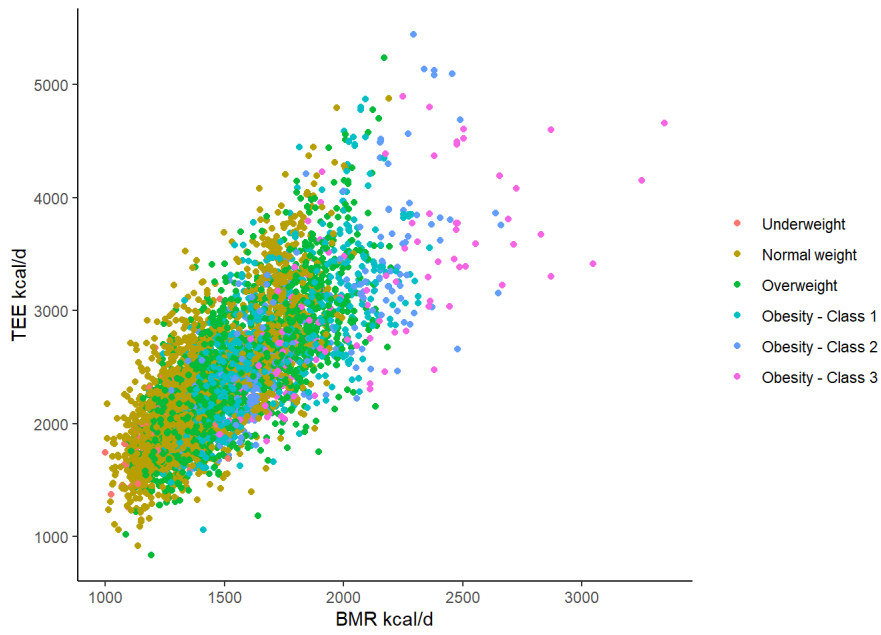
4.17.5 All combined

0+ years old
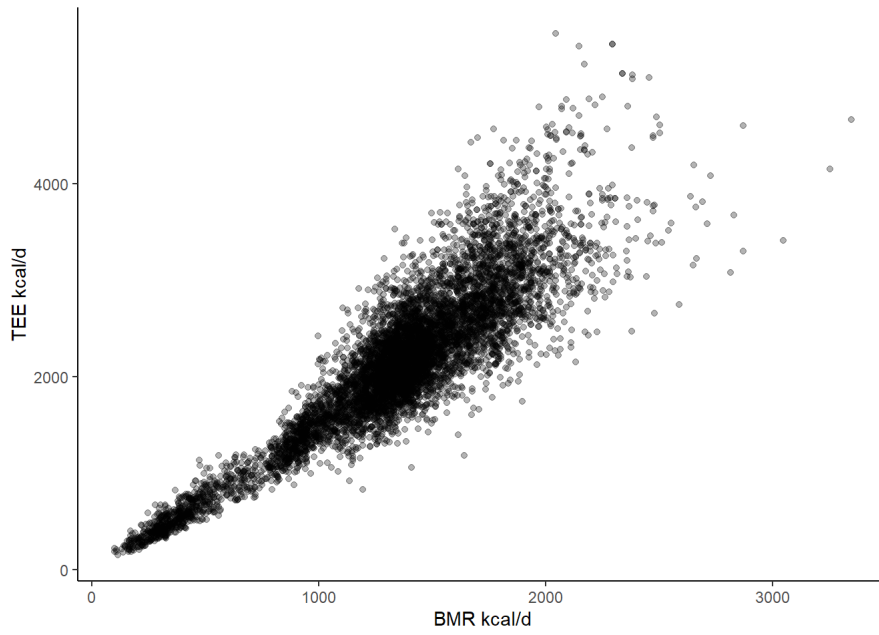
4.18 TEE vs Age

4.18.1 Infants

0-11 months old
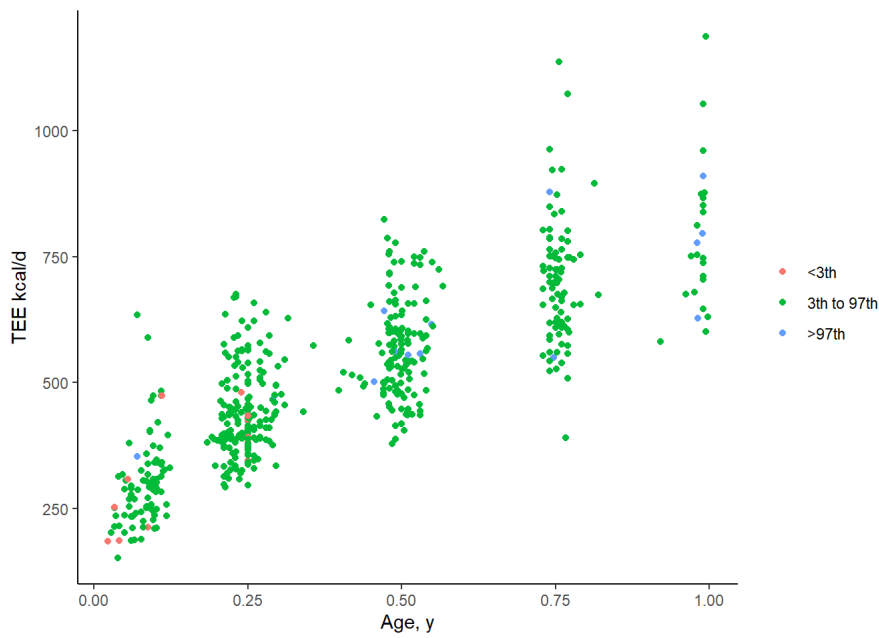
4.18.2 Children

1-8 years old
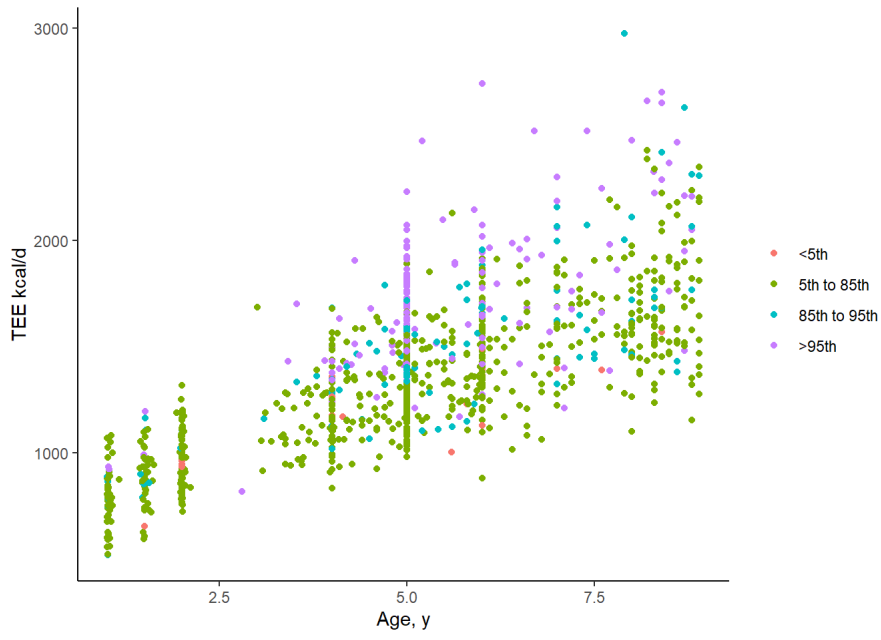
4.18.3 Teenagers

9-18 years old
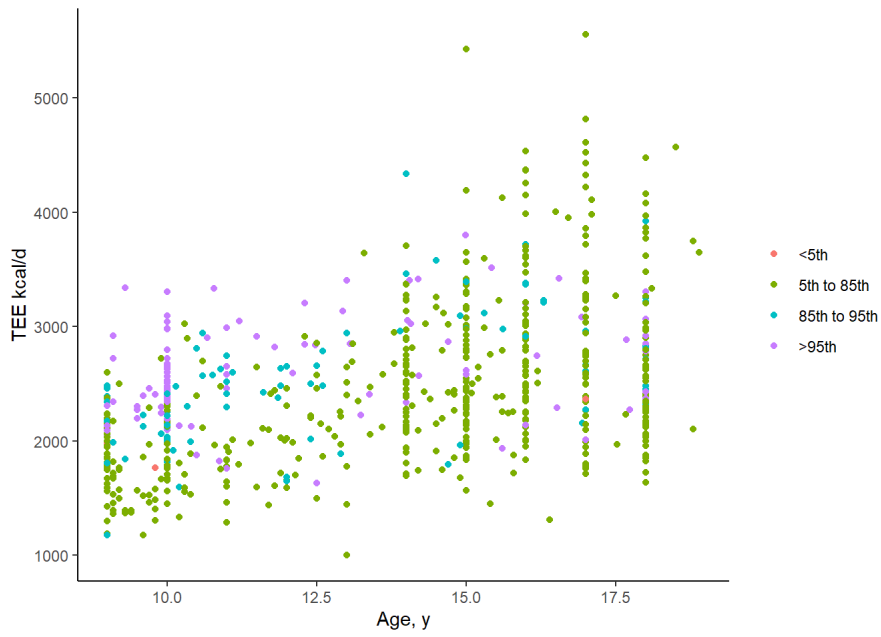
4.18.4 Adults

19+ years old
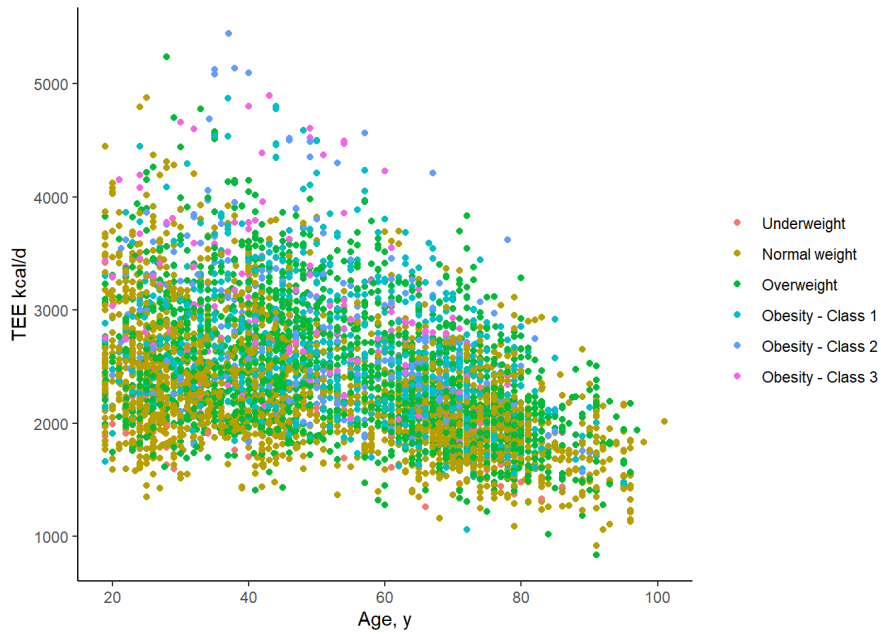
4.18.5 All combined

0+ years old
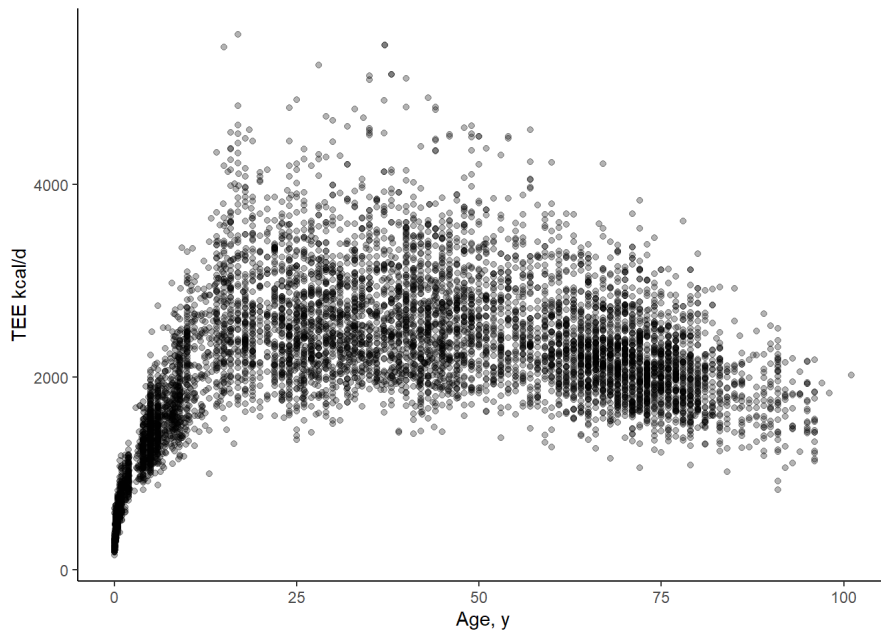
4.19 TEE vs FFM

4.19.1 Infants

0-11 months old
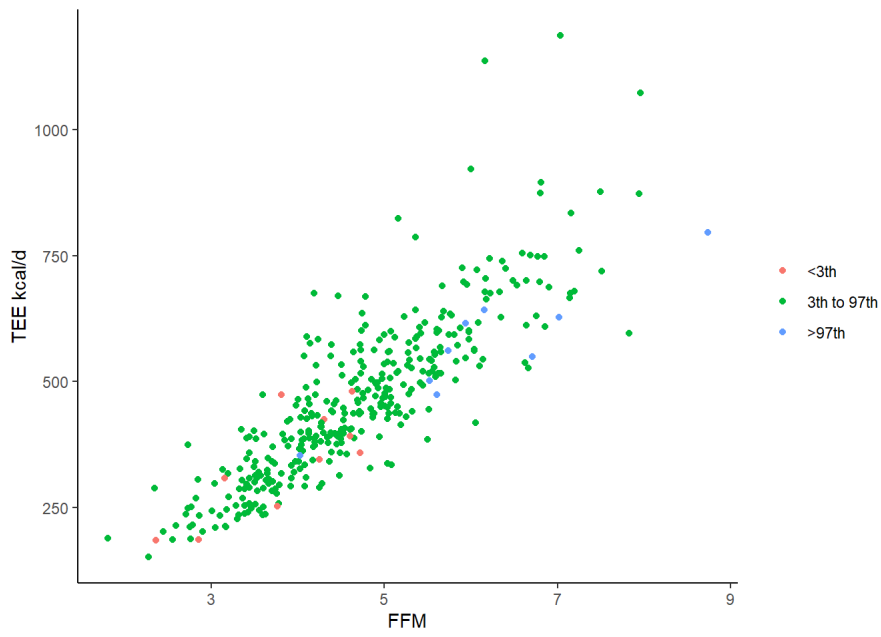
4.19.2 Children

1-8 years old
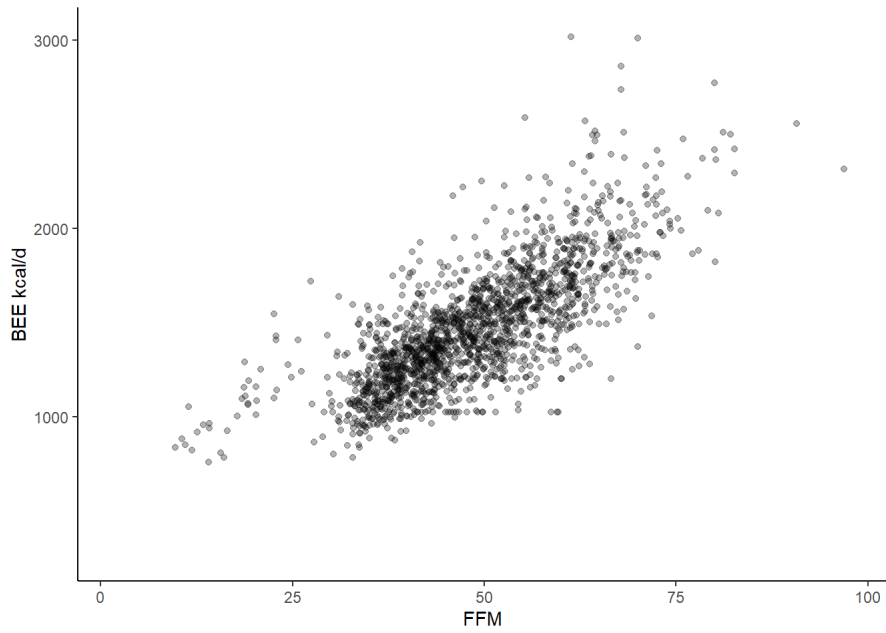

4.19.3 Teenagers

9-18 years old

4.19.4 Adults
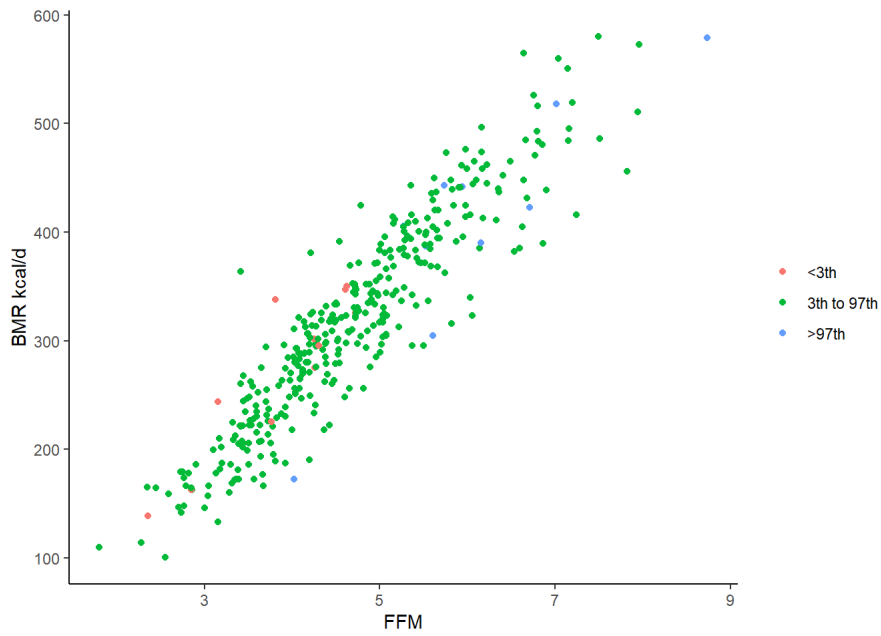
19+ years old
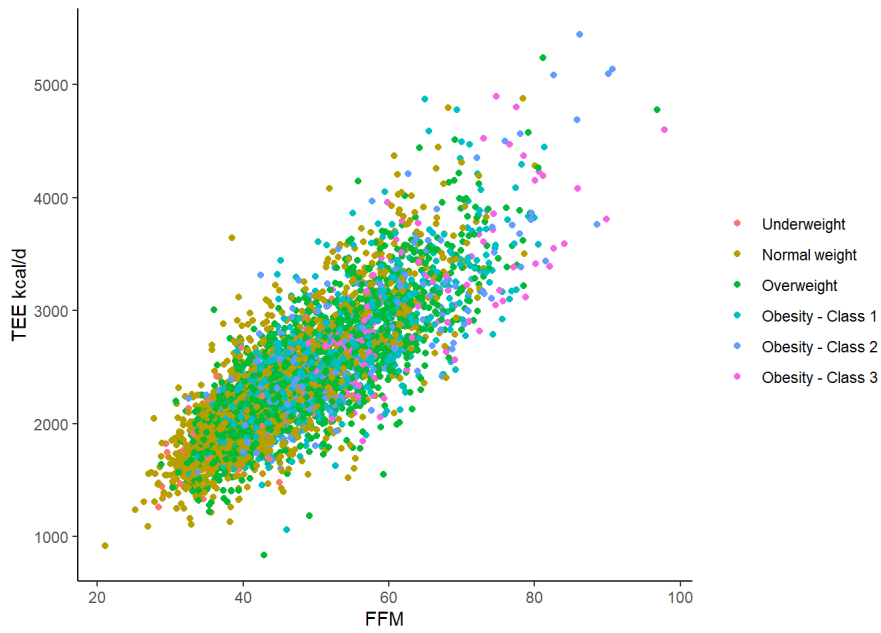
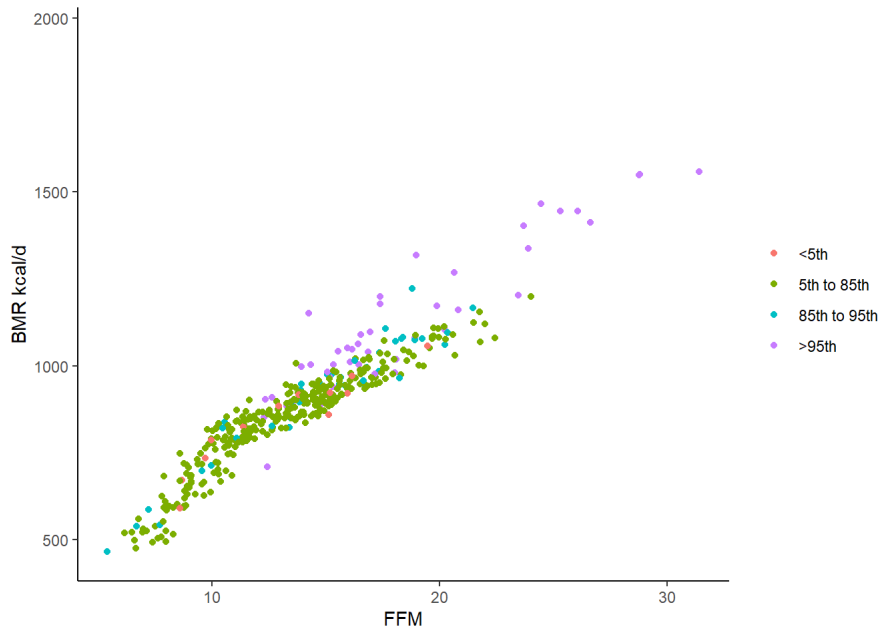## 4.19.5 All combined

0+ years old
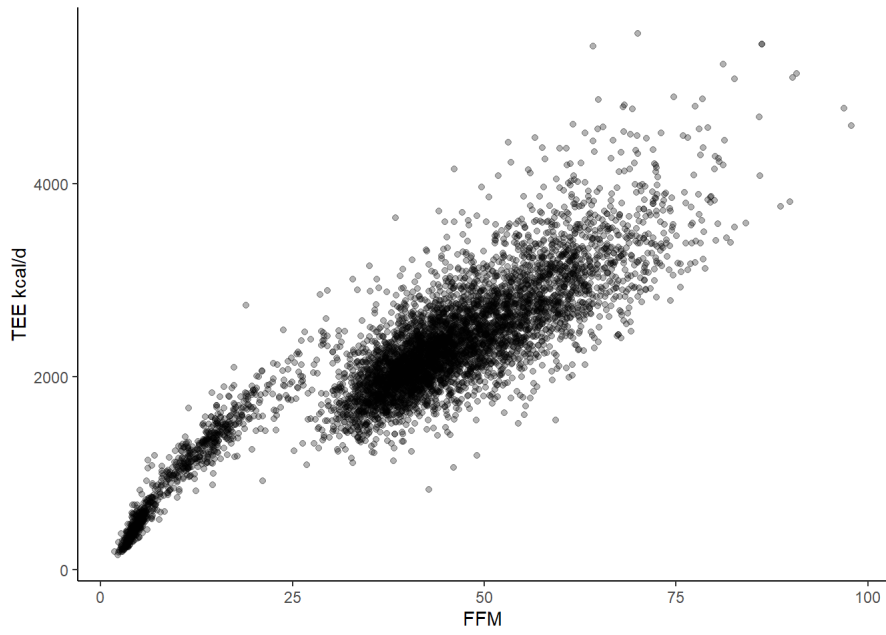
4.20 TEE vs Weight

4.20.1 Infants

0-11 months old
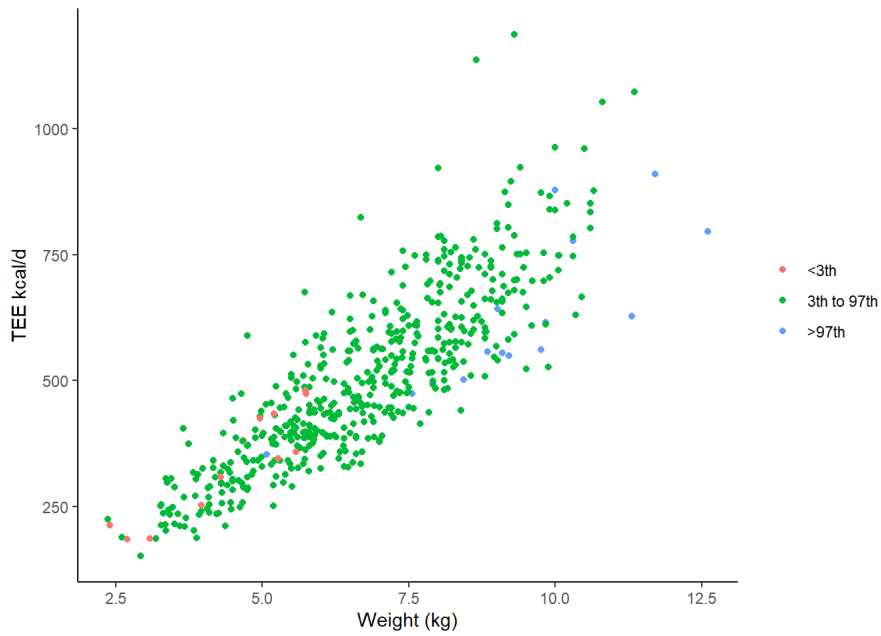
4.20.2 Children

1-8 years old

4.20.3 Teenagers

9-18 years old
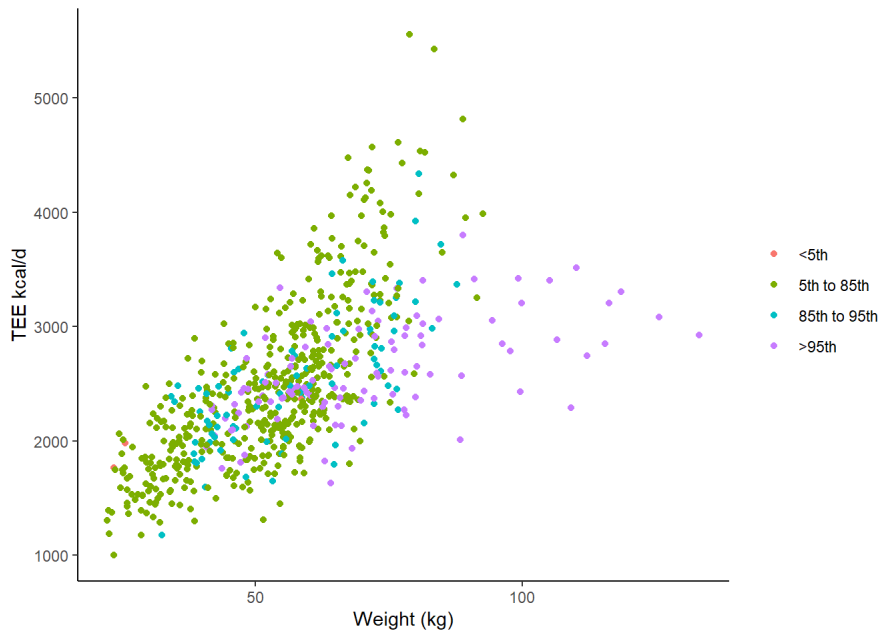
4.20.4 Adults

19+ years old
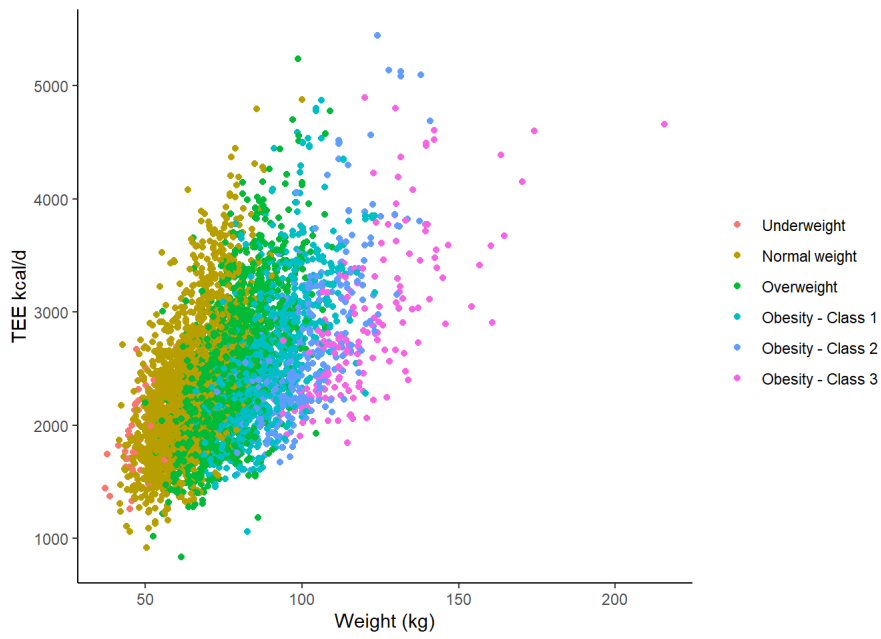
4.20.5 All combined

0+ years old
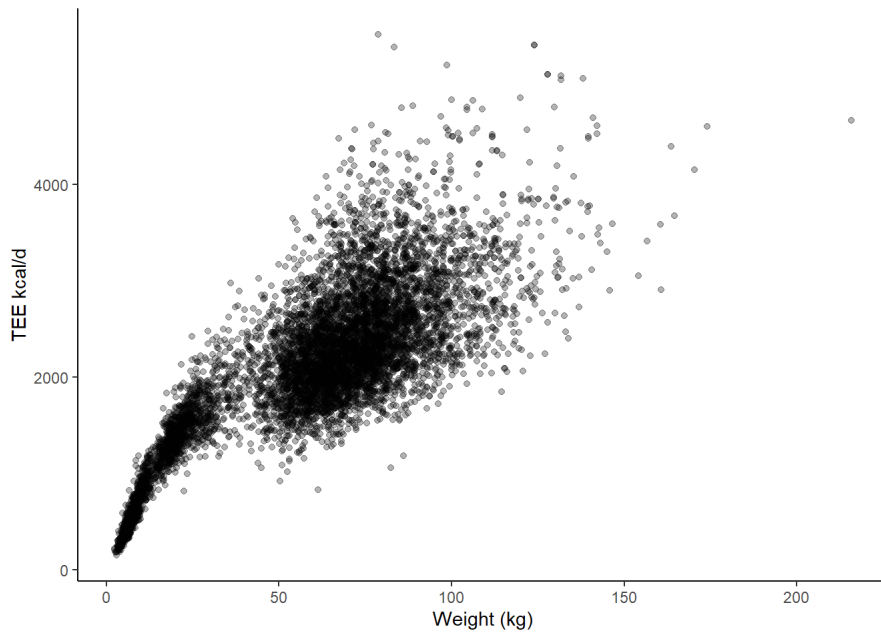
4.21 TEE vs Weight by PALCAT

4.21.1 Infants

0-11 months old
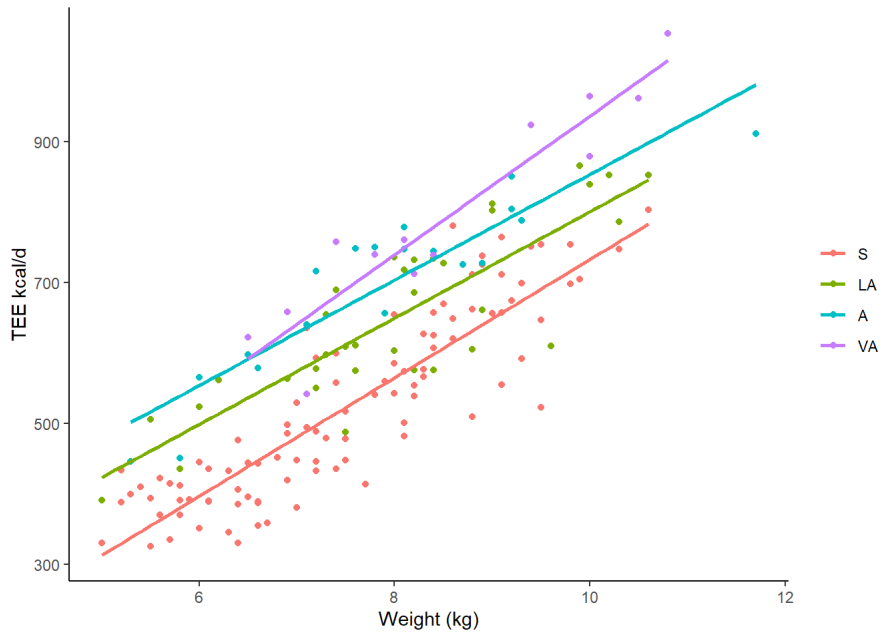
4.21.2 Children

1-8 years old
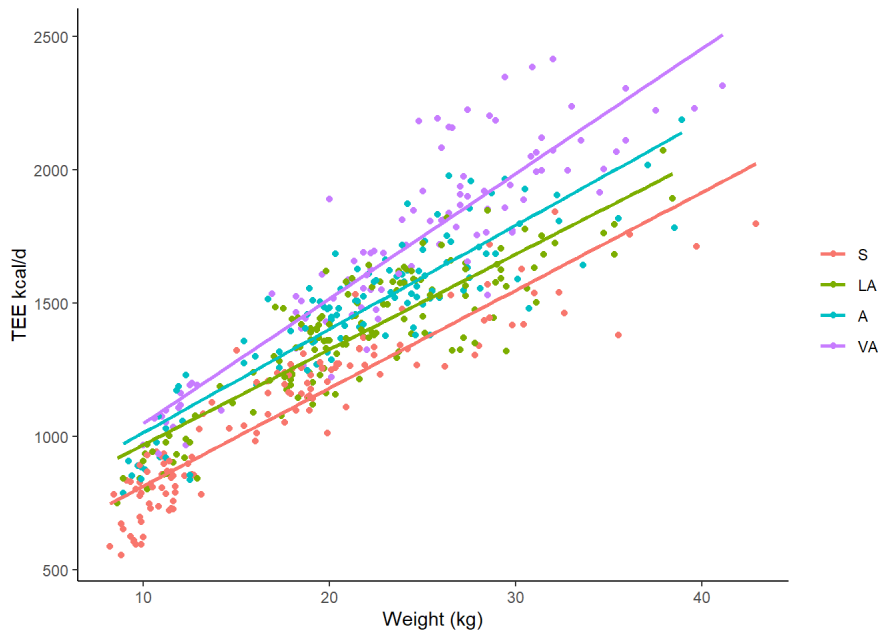
4.21.3 Teenagers

9-18 years old
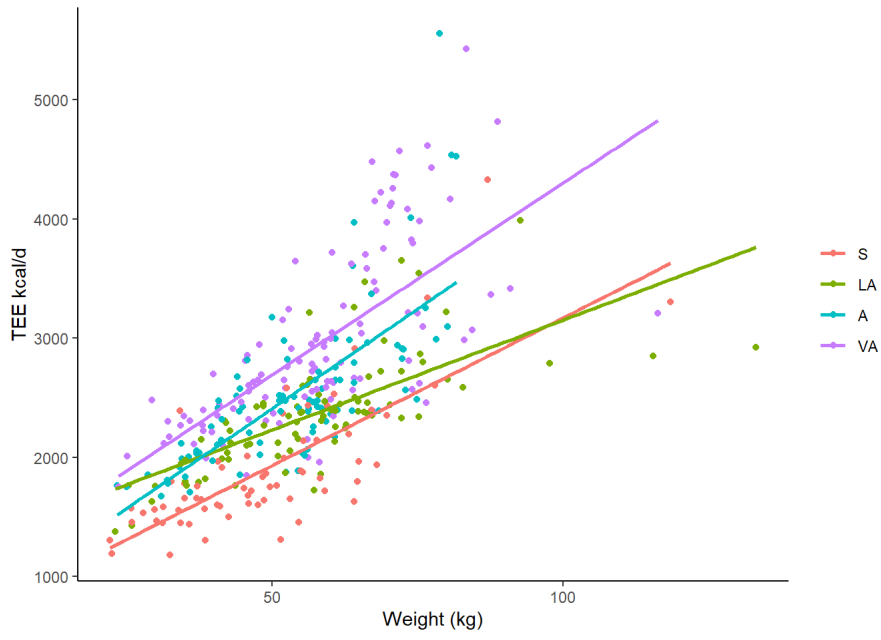
4.21.4 Adults

19+ years old
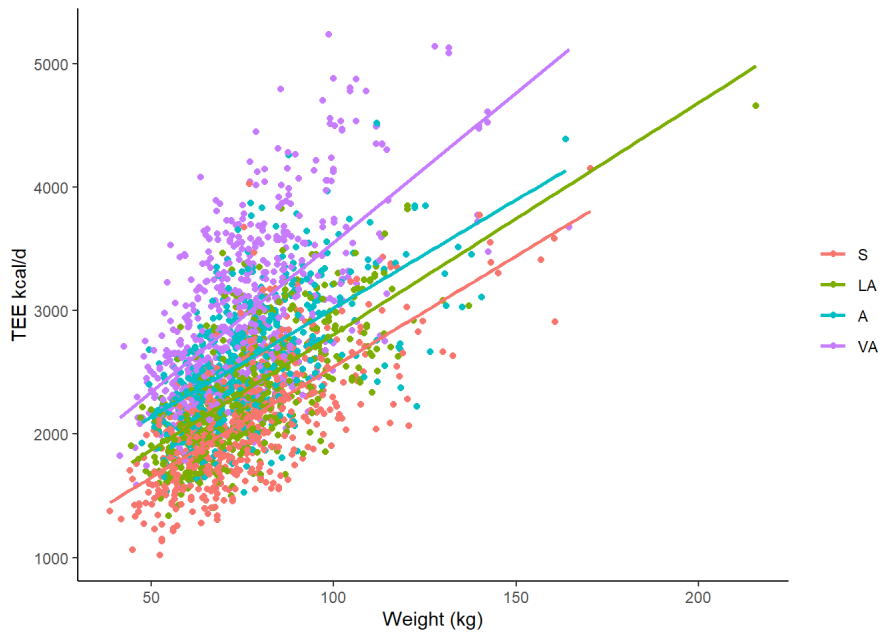
4.21.5 All combined

0+ years old

PAL notes

For 3.0=<Age<9.0: (*Just for graphic purposes Infants use this PALCAT*)

- Sedentary PAL ≥ 1.0 < 1.31
- Low Active PAL ≥ 1.31 < 1.44
- Active PAL ≥ 1.44 < 1.59
- Very Active PAL ≥ 1.59 < 2.5

For 9.0=<Age<14.0:

- Sedentary PAL ≥ 1.0 < 1.44
- Low Active PAL ≥ 1.44 < 1.60
- Active PAL ≥ 1.60 < 1.77
- Very Active PAL ≥ 1.77 < 2.5

For 14.0=<Age<19.0:

- Sedentary PAL ≥ 1.0 < 1.57
- Low Active PAL ≥ 1.57 < 1.74
- Active PAL ≥ 1.74 < 1.94
- Very Active PAL ≥ 1.94 < 2.5

For Age>=19: (*Note that these are based on percentiles of 19 to 70.99, but 71+ use these too*)

- Sedentary PAL ≥ 1.0 < 1.53
- Low Active PAL ≥ 1.53 < 1.69
- Active PAL ≥ 1.69 < 1.85
- Very Active PAL ≥ 1.85 < 2.5

4.22 TEE vs FM

4.22.1 Infants

0-11 months old
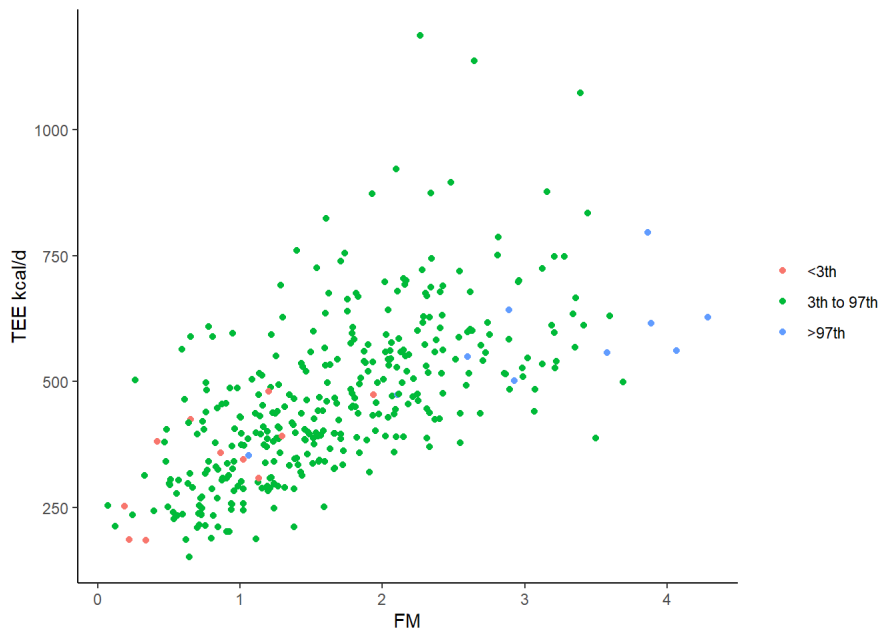
4.22.2 Children

1-8 years old

4.22.3 Teenagers

9-18 years old

4.22.4 Adults

19+ years old
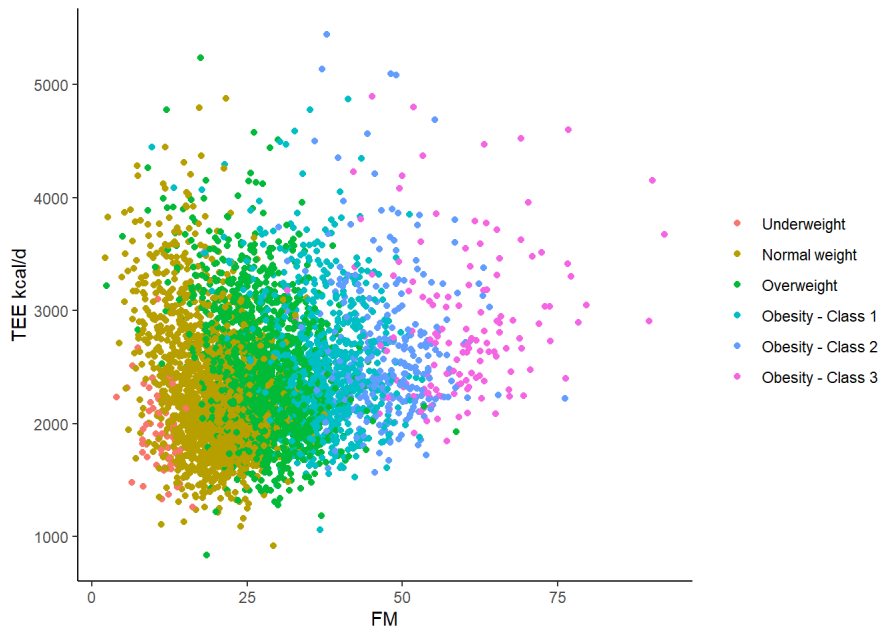
4.22.5 All combined

0+ years old
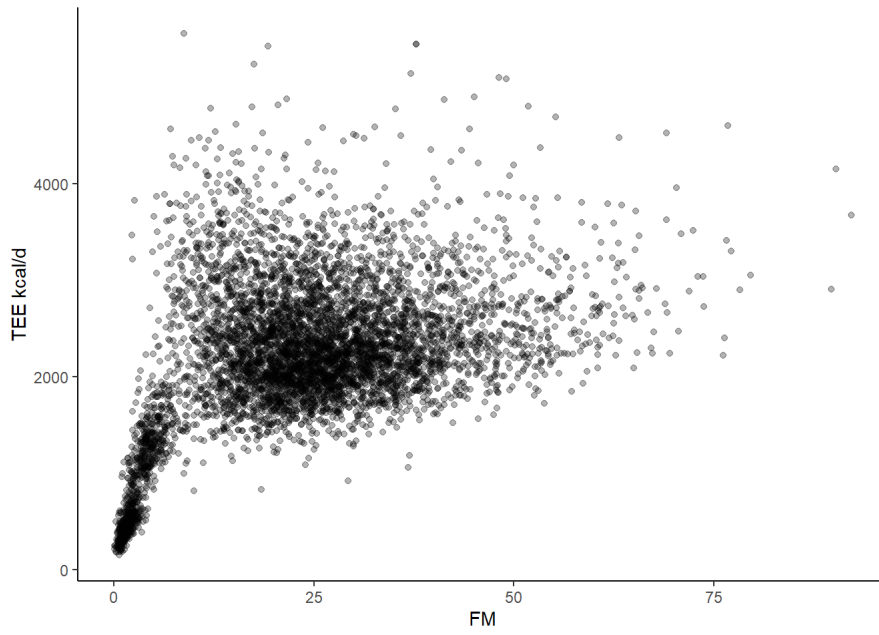
4.23 TEE vs FM percent

4.23.1 Infants

0-11 months old
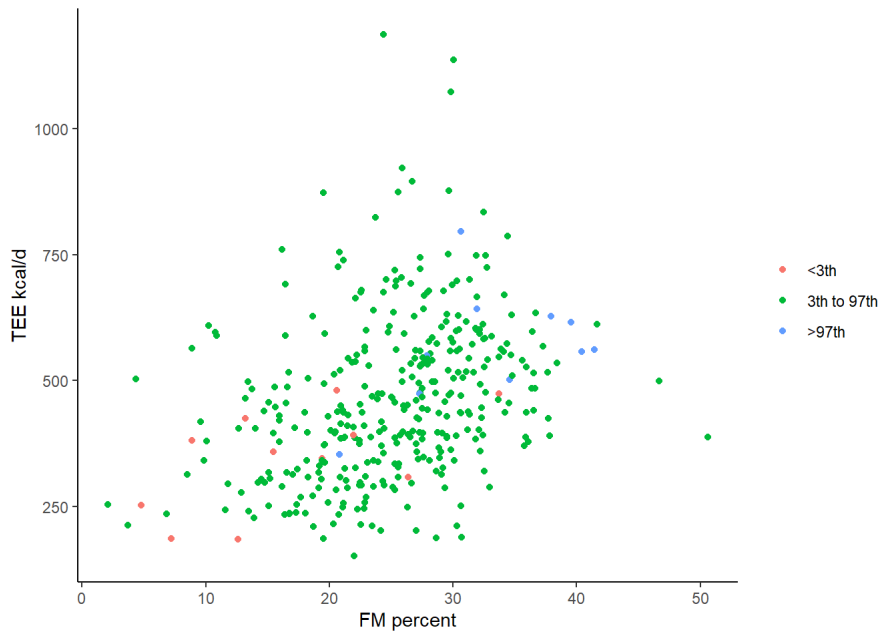
4.23.2 Children

1-8 years old
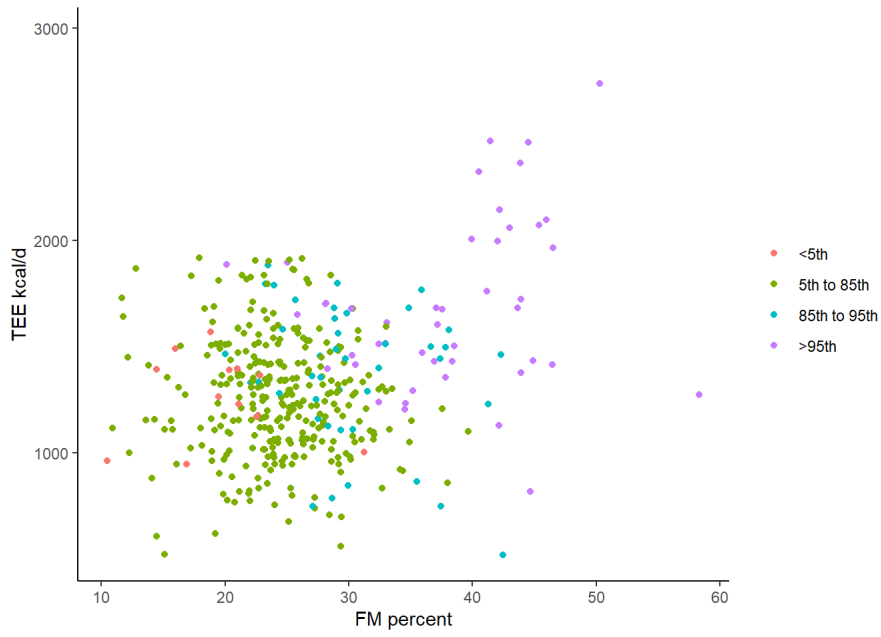
4.23.3 Teenagers

9-18 years old
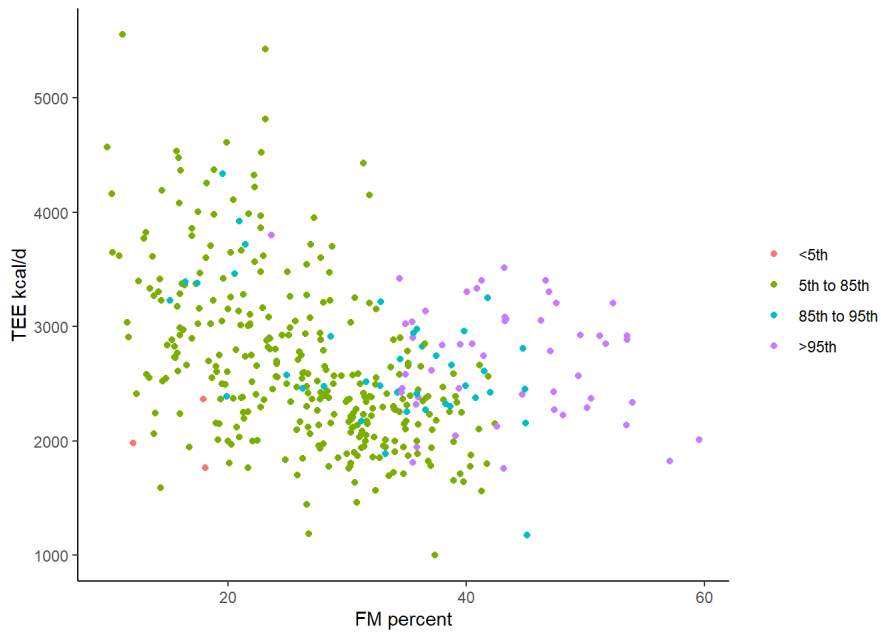
4.23.4 Adults

19+ years old
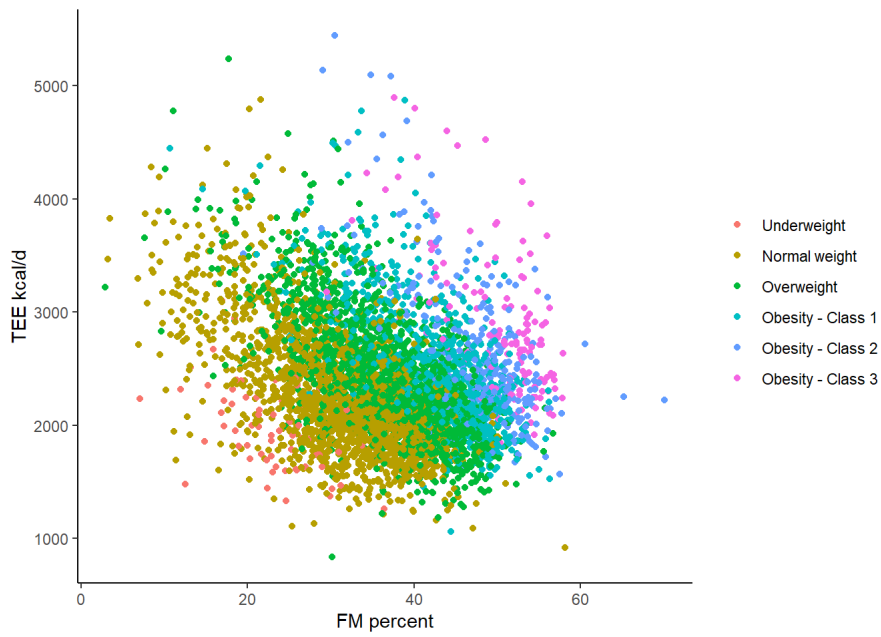
4.23.5 All combined

0+ years old
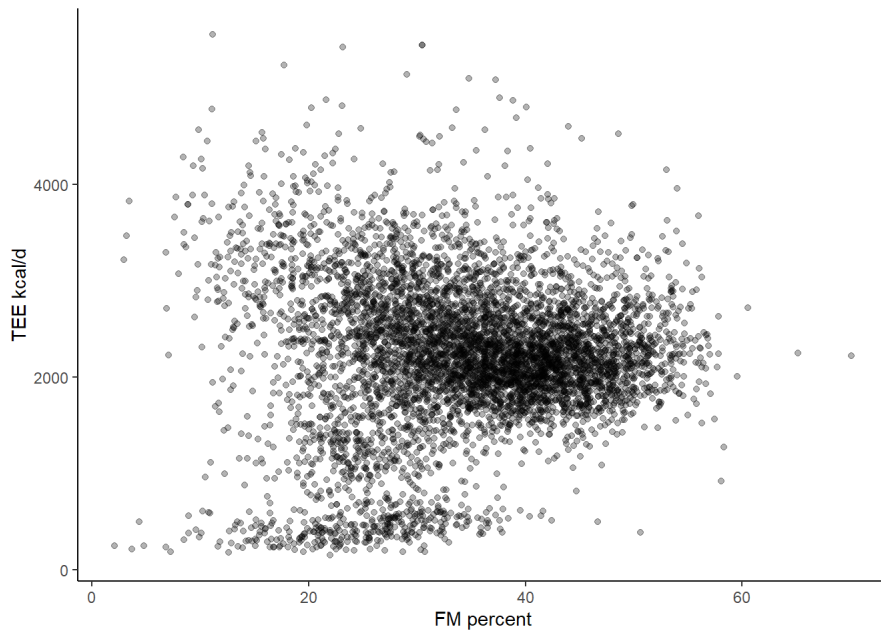
4.24 BEE observed vs Weight

4.24.1 Infants

0-11 months old
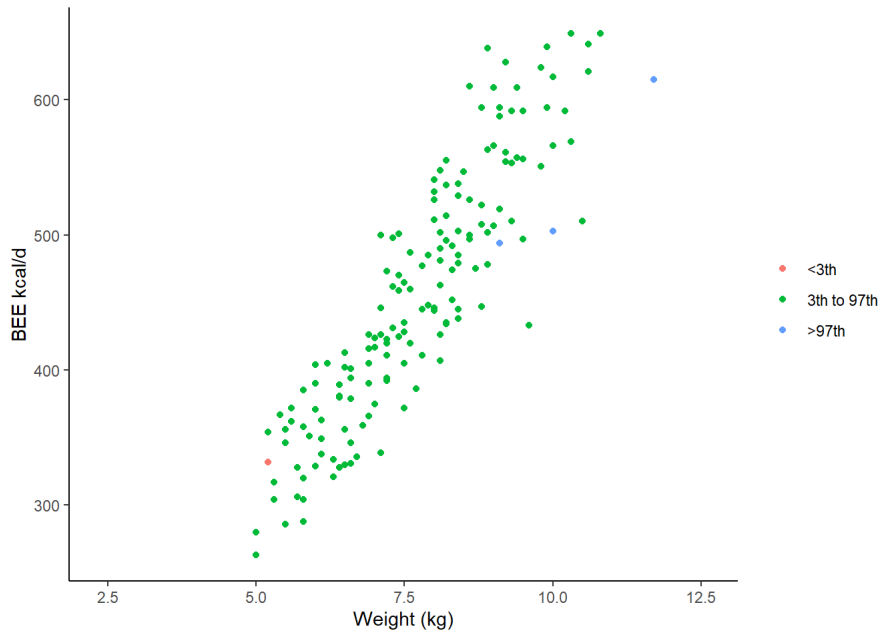
4.24.2 Children

1-8 years old
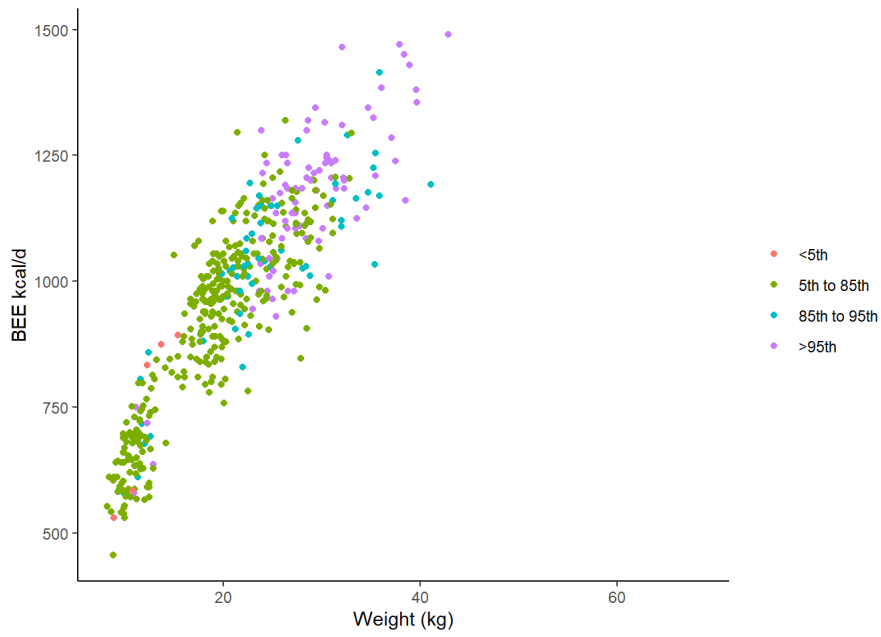
4.24.3 Teenagers

9-18 years old
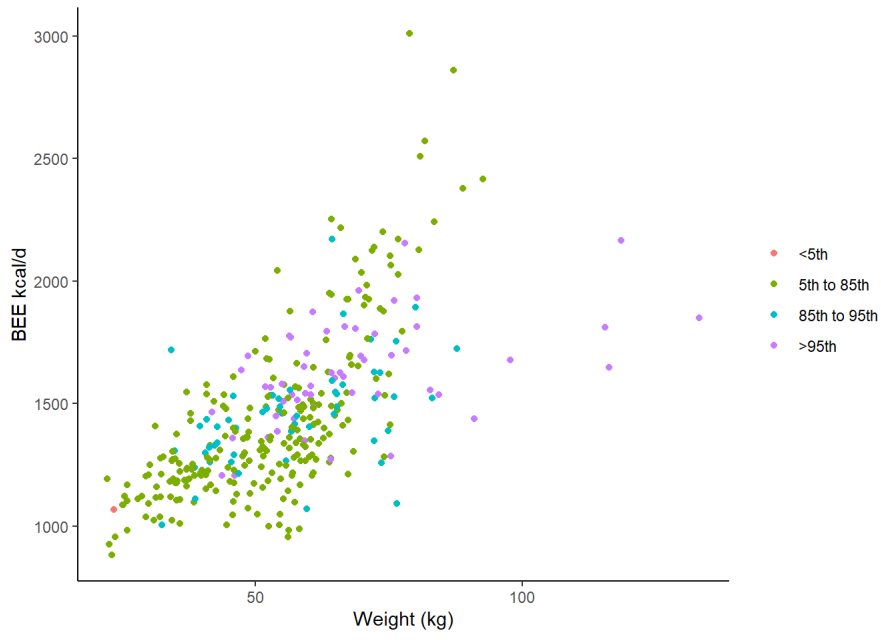
4.24.4 Adults

19+ years old
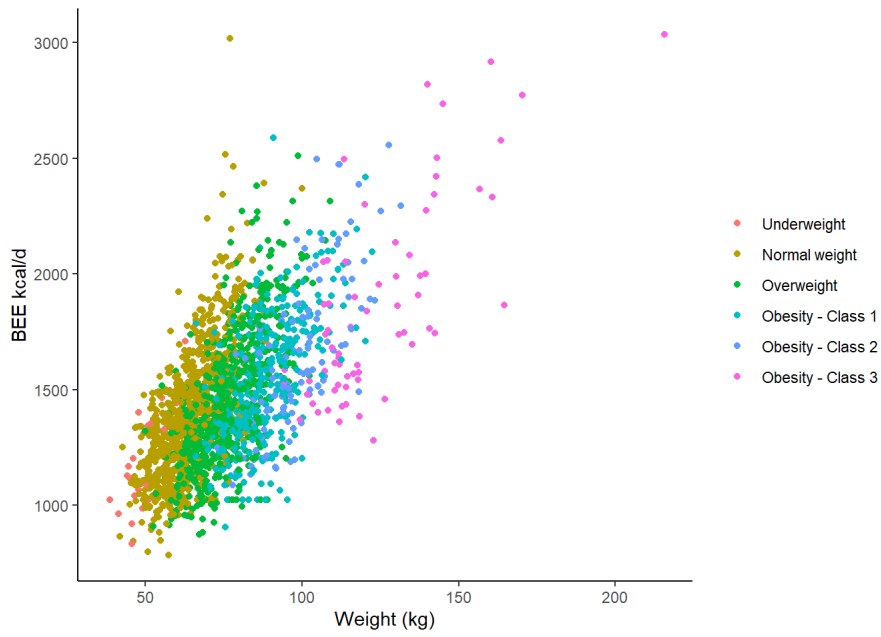
4.24.5 All combined

0+ years old
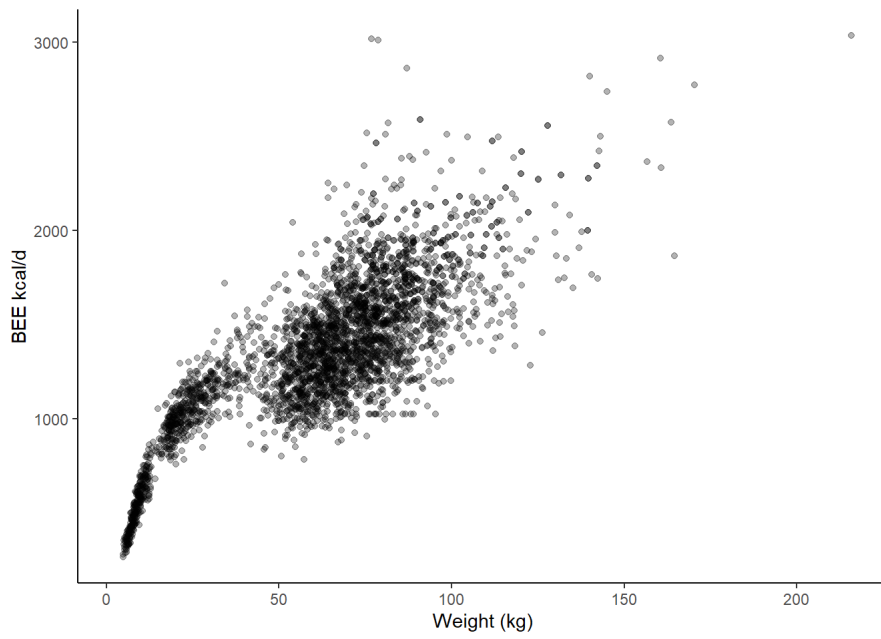
4.25 BMR_Schofield vs Weight

4.25.1 Infants

0-11 months old
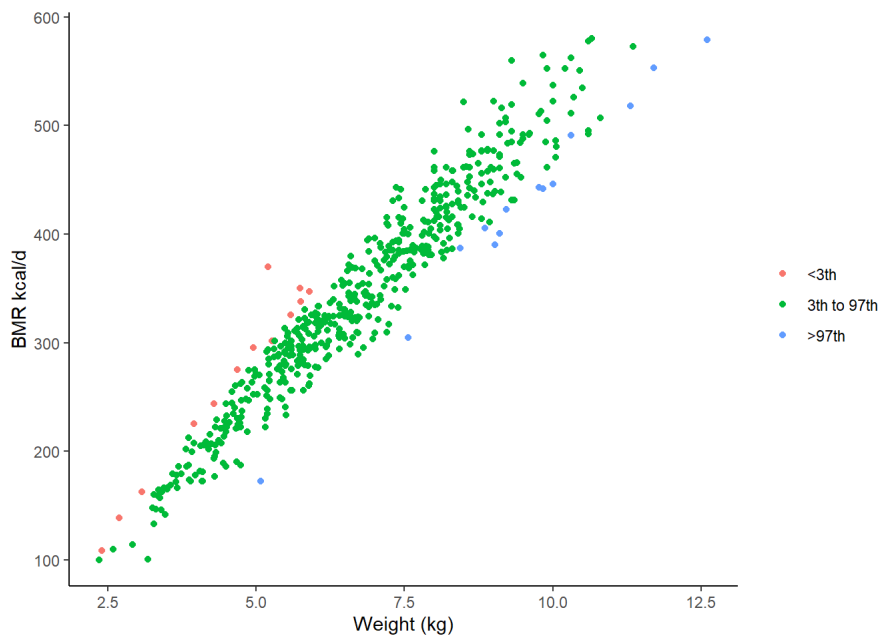
4.25.2 Children

1-8 years old
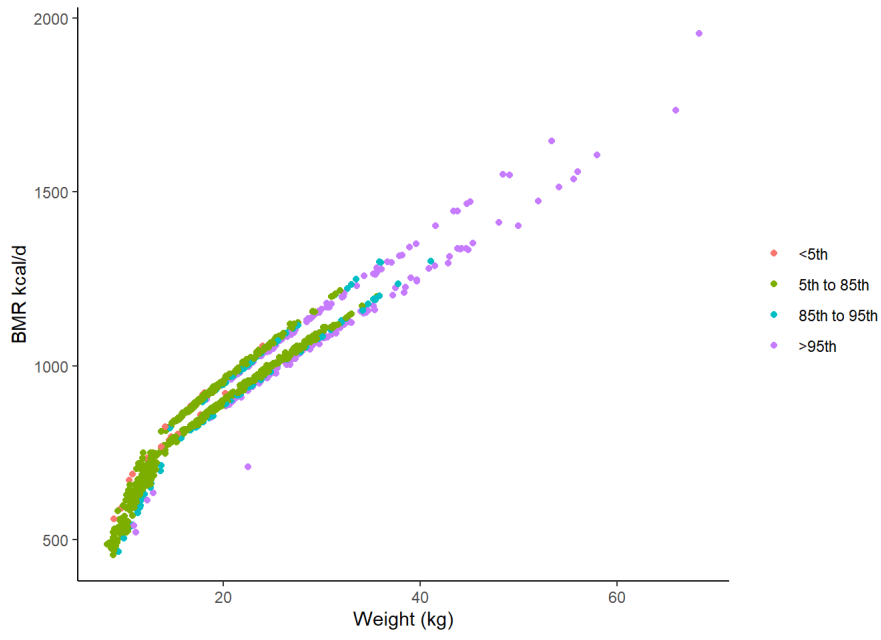
4.25.3 Teenagers

9-18 years old
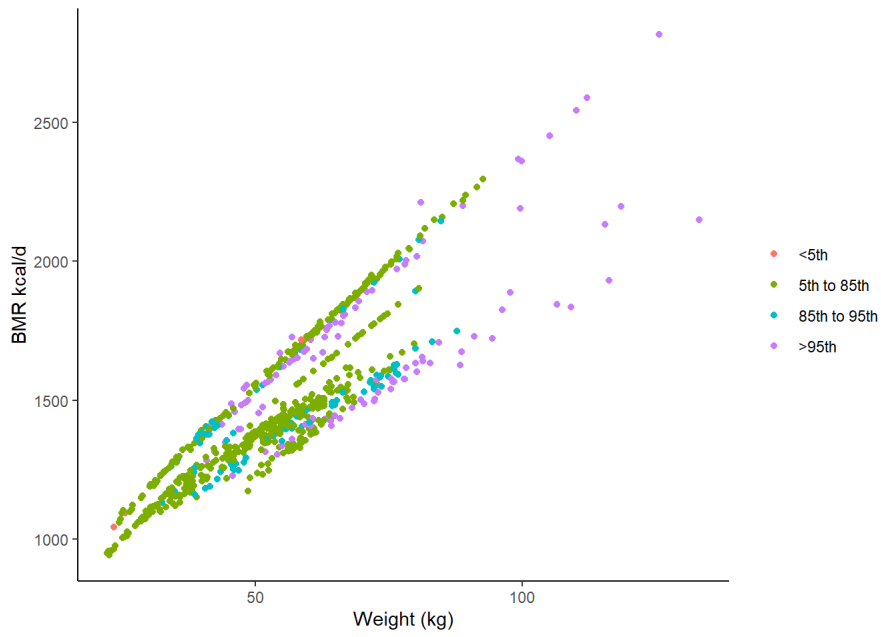
4.25.4 Adults

19+ years old
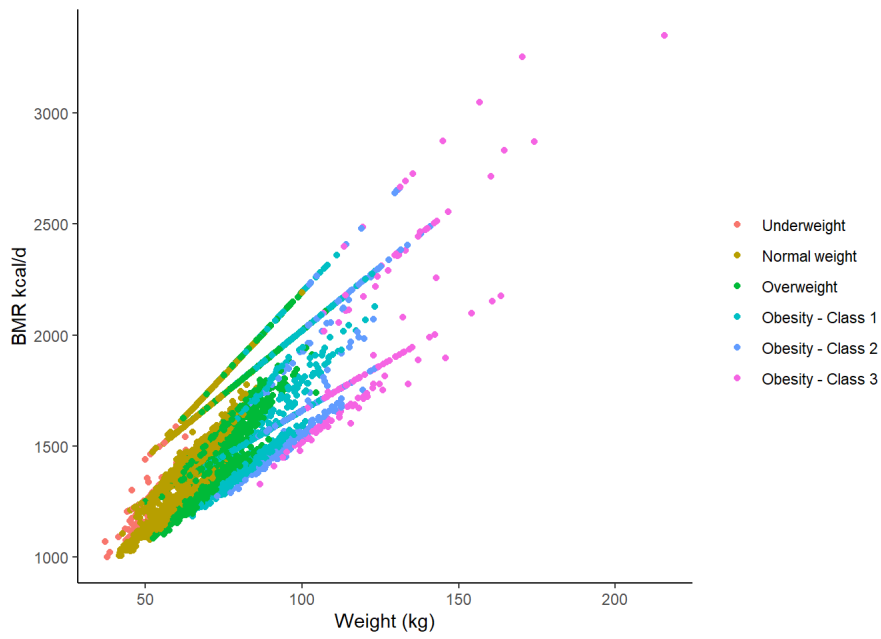
4.25.5 All combined

0+ years old
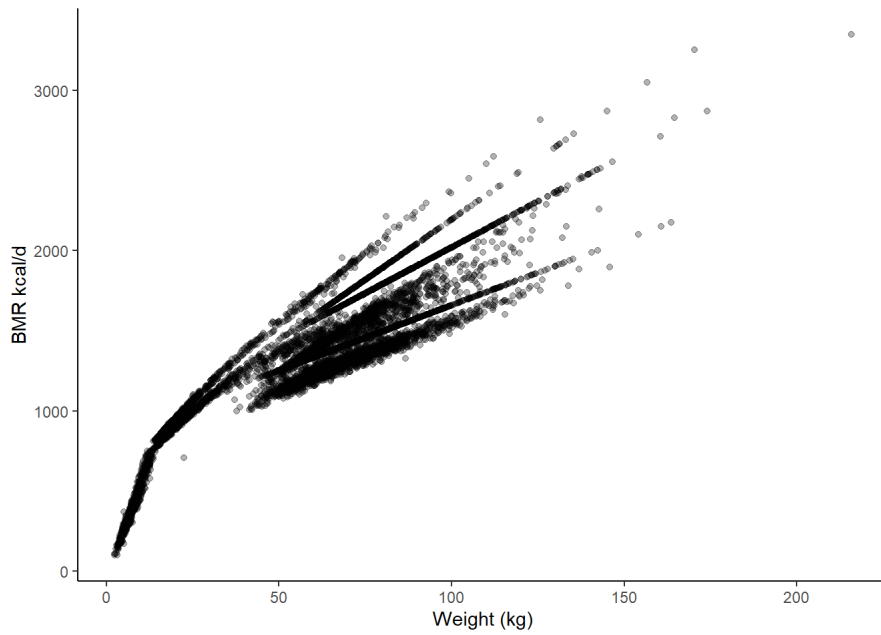
4.26 BEE observed vs FFM

4.26.1 Infants

0-11 months old
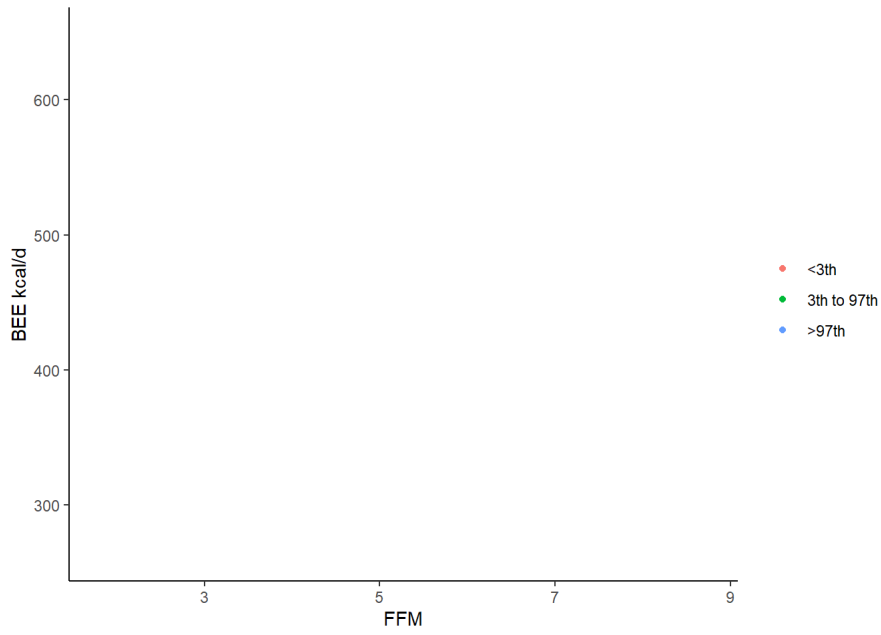
4.26.2 Children

1-8 years old
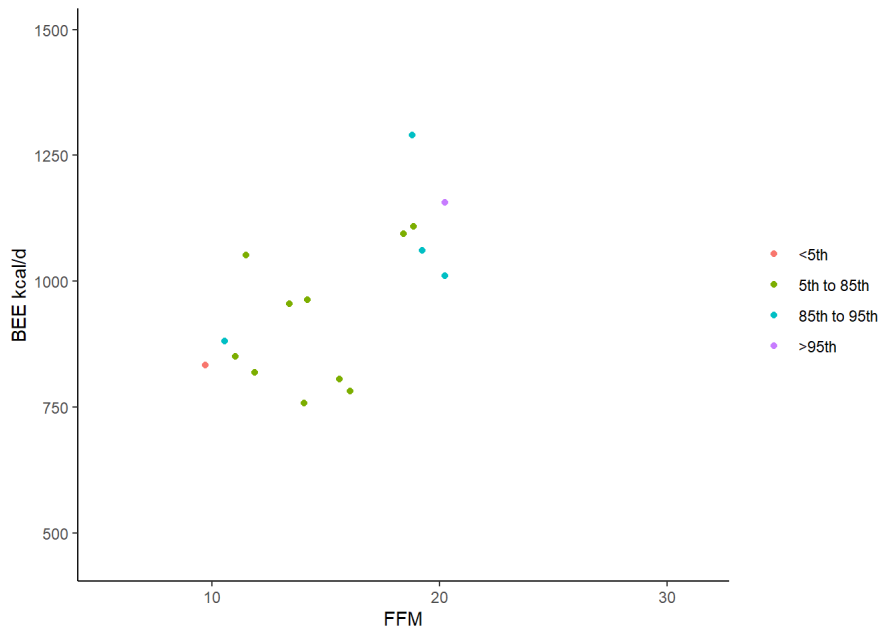
4.26.3 Teenagers

9-18 years old

4.26.4 Adults

19+ years old

4.26.5 All combined

0+ years old

4.27 BMR Schofield vs FFM

4.27.1 Infants

0-11 months old

4.27.2 Children

1-8 years old

4.27.3 Teenagers

9-18 years old
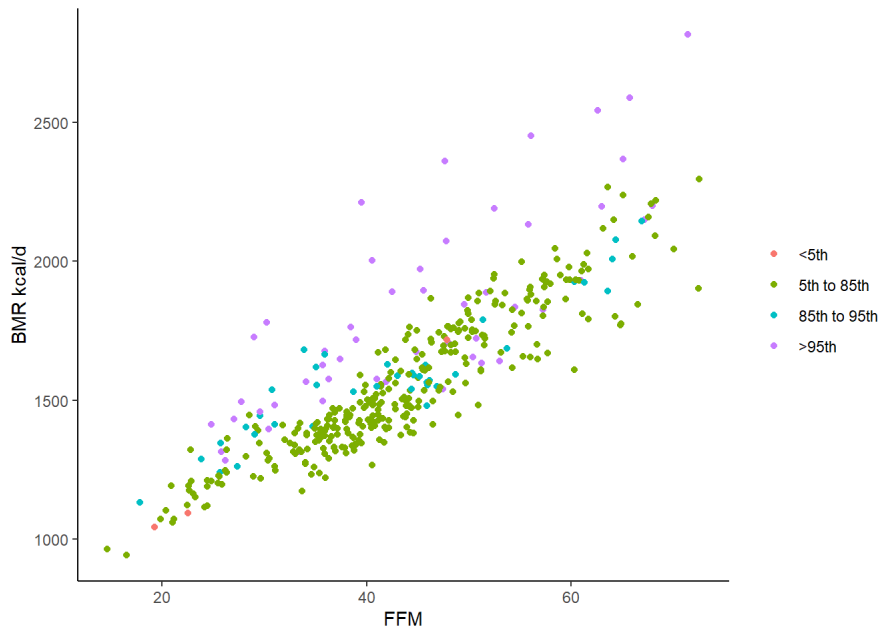
4.27.4 Adults

19+ years old
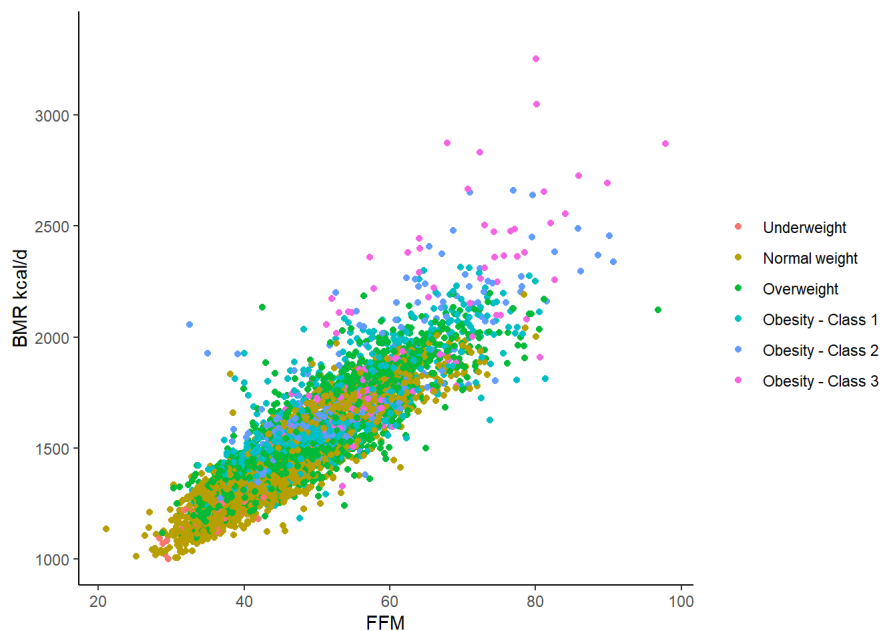
4.27.5 All combined

0+ years old
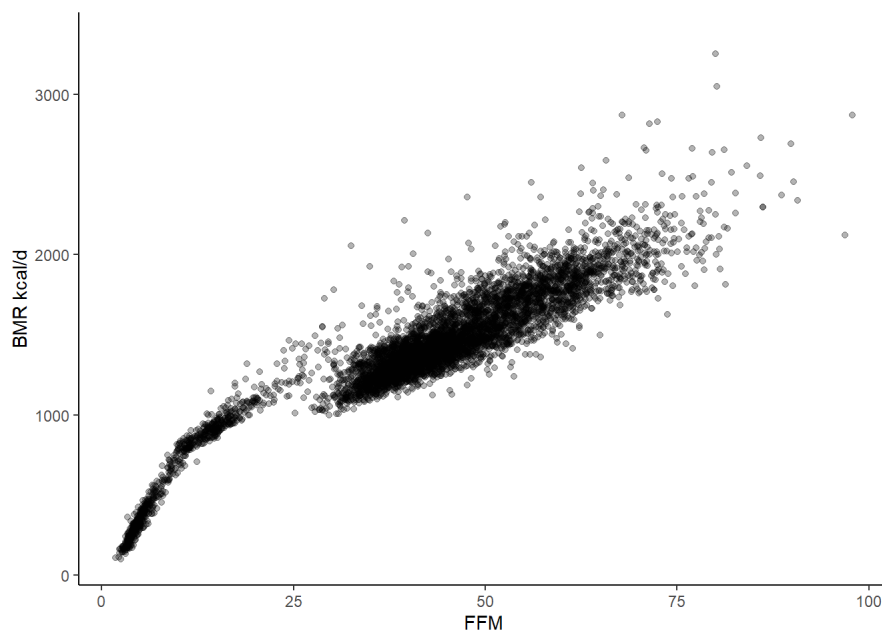
5 Physical activity data (SOLNAS)

SOLNAS (Hispanic 19+yo) includes data for 69 subjects on Physical Activity from Actical (daily counts/minute), with only 59 of them with Age/Sex/Weight/Height. We used the "Actical derived variables at the participant level" data set were the variables are created as:

- SED_DAY: min/day (average) of sedentary activity (<100 counts/min)
- LIGHT_DAY: min/day (average) of light activity (100-1534 counts/min)
- MOD_DAY: min/day (average) of moderate activity (1535-3961 counts/min)
- VIG_DAY: min/day (average) of vigorous activity (>=3962 counts/min)

5.1 Sedentary activity vs PAL
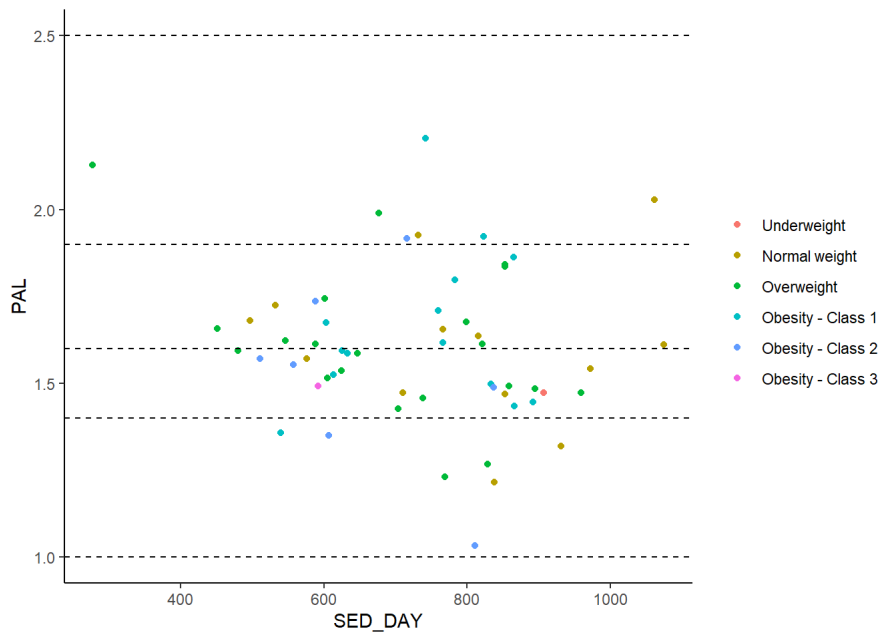
5.2 Light activity vs PAL
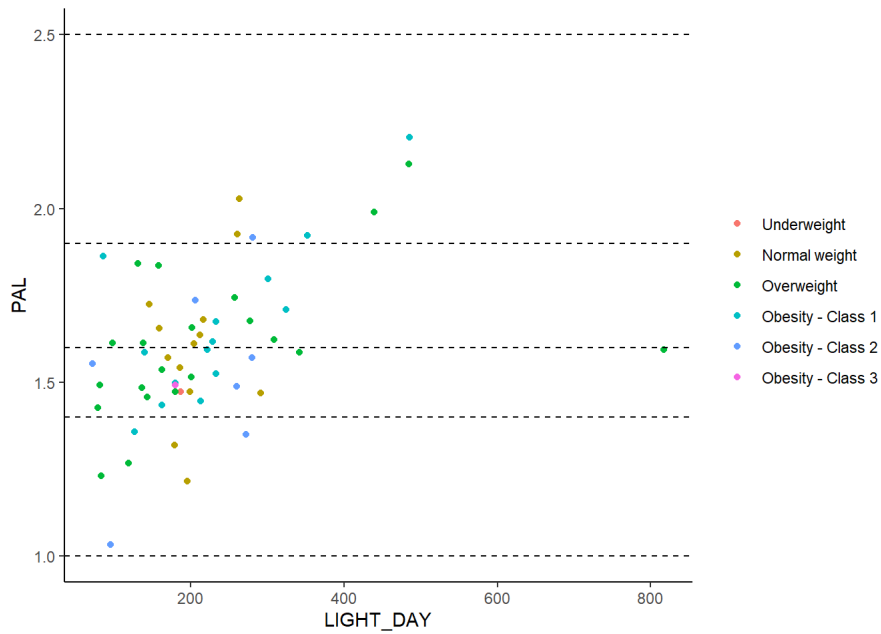
5.3 Moderate activity vs PAL
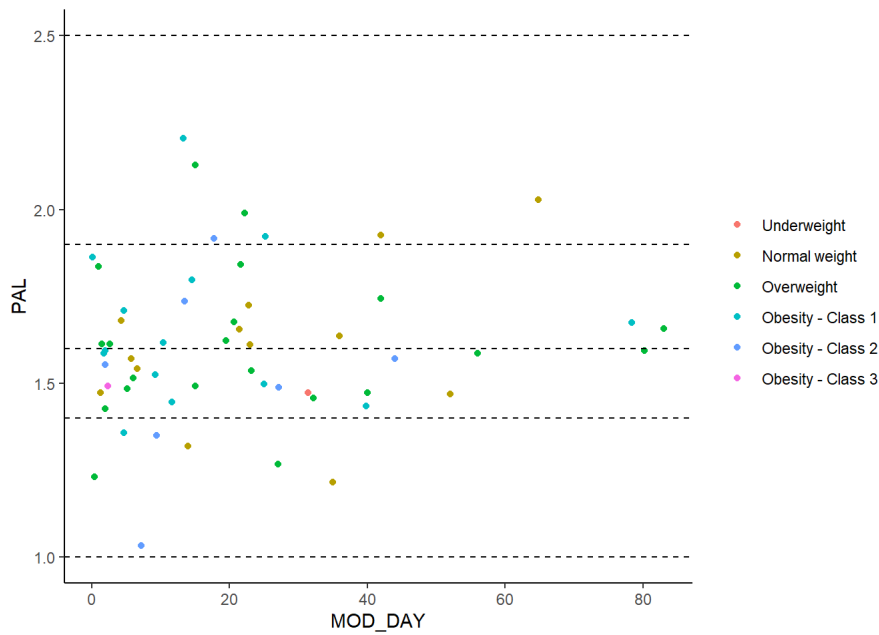
Correlation

0.1223

5.4 Vigorous activity vs PAL
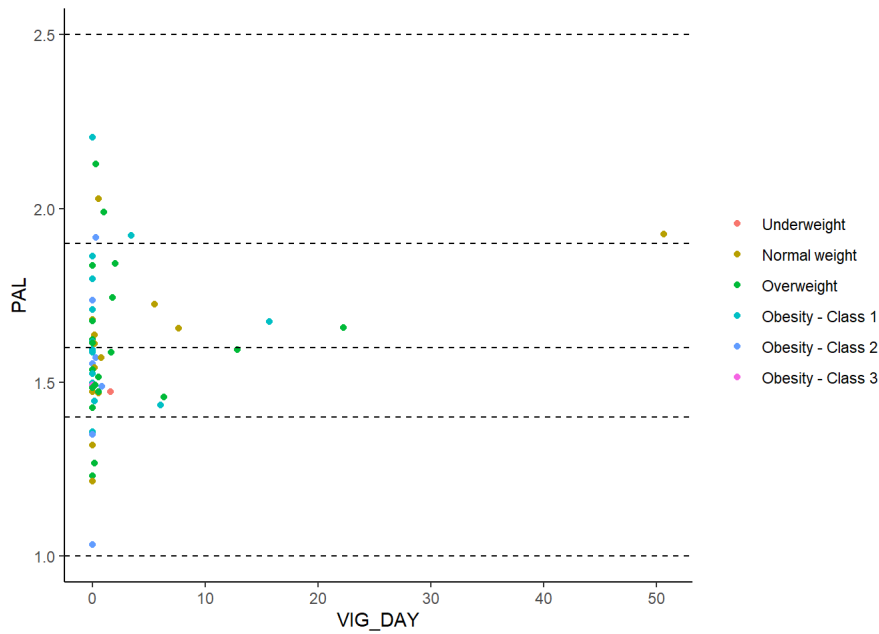
Correlation

0.2026

6 Burden (IAEA)

Comparing TEE by Study Burden and Medical conditions

ANOVA was performed to compare differences in TEE by Study burden and Medical conditions; Overall and within Age group.

6.1 All together

These tests include all subjects from infants to adults.

6.1.1 Study Burden

	1 (N=2356)	2 (N=2214)	3 (N=309)	4 (N=574)	P-value ANOVA
TEE kcal/d					
N	2353	2209	309	574	<0.001
Mean (SD)	2000.66 (882.49)	2313.21 (698.07)	2514.96 (753.19)	2415.57 (445.00)	
Median [Min, Max]	2105.61 [151.33, 5444.56]	2246.02 [296.01, 5555.39]	2356.60 [1291.03, 5088.24]	2337.58 [1577.09, 4688.94]	
Missing	3 (0.1%)	5 (0.2%)	0 (0%)	0 (0%)	

Due to significant differences in Study burden, we performed pairwise comparisons. P-values are adjusted with Tukey method.

contrast	estimate	SE	df	t.ratio	p.value
1 - 2	-312.55	22.71	5441	-13.77	0.000
1 - 3	-514.29	46.37	5441	-11.09	0.000
1 - 4	-414.91	35.68	5441	-11.63	0.000
2 - 3	-201.75	46.55	5441	-4.33	0.000
2 - 4	-102.37	35.91	5441	-2.85	0.023
3 - 4	99.38	54.08	5441	1.84	0.256
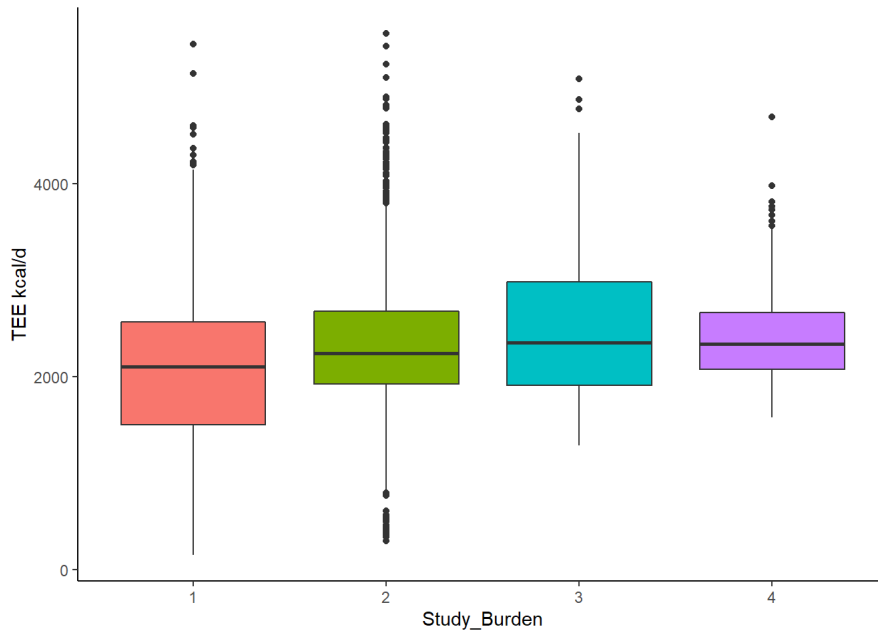
6.1.2 Medical Conditions

|	1 (N=2314)	2 (N=3139)	P-value ANOVA
TEE kcal/d			
N	2310	3135	<0.001
Mean (SD)	2056.21 (1035.94)	2306.62 (509.53)	
Median [Min, Max]	2174.50 [151.33, 5555.39]	2225.82 [833.81, 5099.11]	
Missing	4 (0.2%)	4 (0.1%)	

There are significant differences between groups.
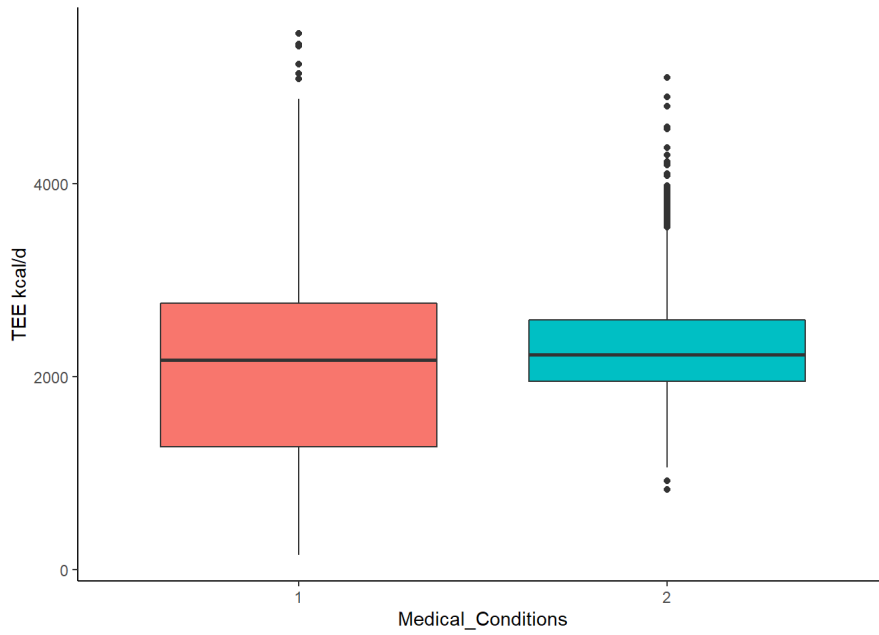
6.2 Infants

0 to 11 months old

6.2.1 Study Burden

	1 (N=337)	2 (N=41)	P-value ANOVA
TEE kcal/d			
N	337	41	0.106
Mean (SD)	465.94 (168.56)	422.77 (69.79)	
Median [Min, Max]	455.58 [151.33, 1187.32]	409.86 [296.01, 609.84]	
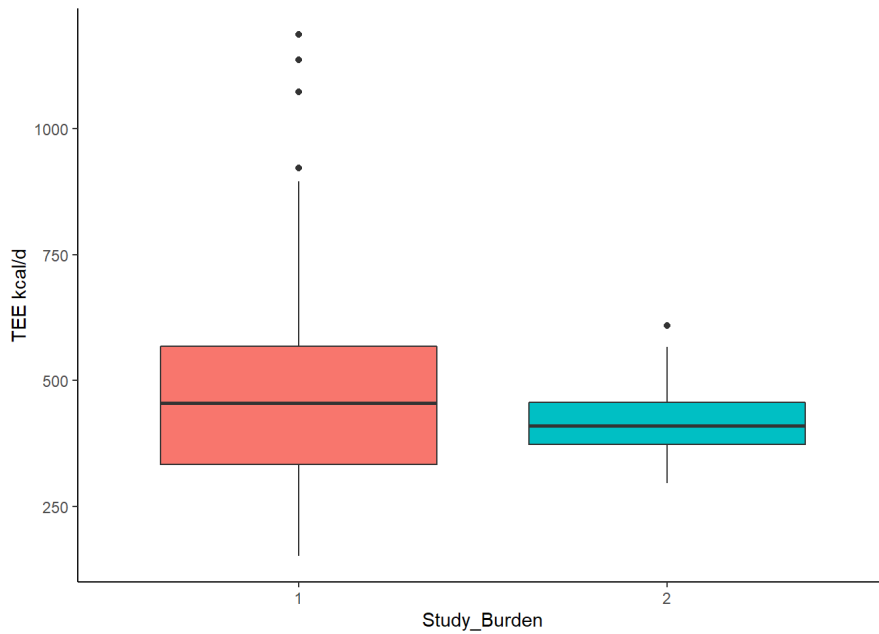
6.2.2 Medical Conditions

Infants only have one medical condition

	Overall (N=378)
TEE kcal/d	
N	378
Mean (SD)	461.25 (161.30)

	Overall (N=378)
Median [Min, Max]	442.16 [151.33, 1187.32]
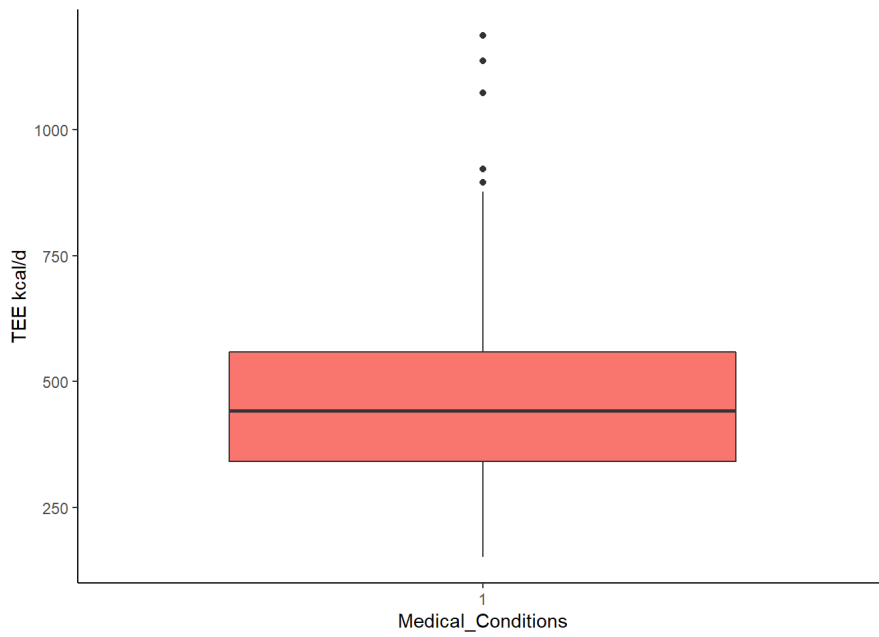
6.3 Children

1 to 3 years old

6.3.1 Study Burden

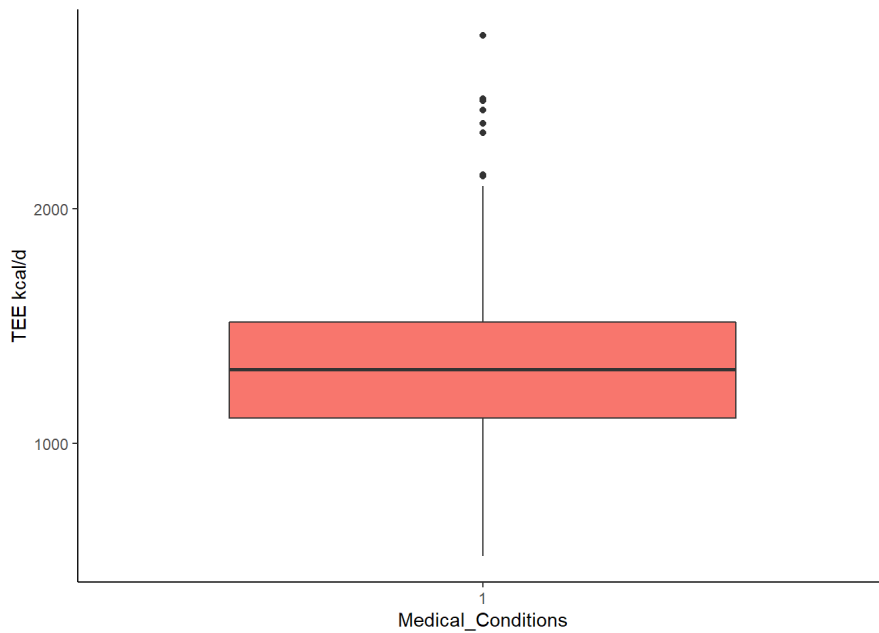|	1 (N=295)	2 (N=137)	P-value ANOVA
TEE kcal/d			
N	295	137	<0.001
Mean (SD)	1375.45 (339.58)	1236.12 (299.98)	
Median [Min, Max]	1358.75 [517.00, 2468.93]	1205.61 [767.04, 2740.13]	
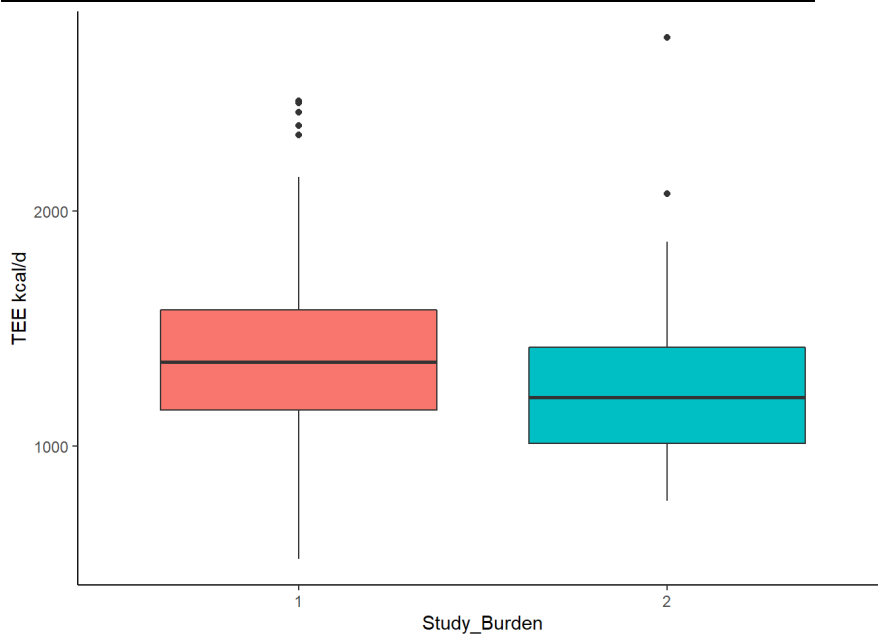
6.3.2 Medical Conditions

Children only have one medical condition

	Overall (N=432)

	Overall (N=432)
TEE kcal/d	
N	432
Mean (SD)	1331.26 (333.57)
Median [Min, Max]	1315.47 [517.00, 2740.13]

6.4 Teenagers

9-18 years old

6.4.1 Study Burden

|	1 (N=204)	2 (N=206)	3 (N=15)	P-value ANOVA
TEE kcal/d				
N	203	204	15	<0.001
Mean (SD)	2443.41 (541.46)	2892.98 (770.31)	2613.16 (410.27)	
Median [Min, Max]	2383.39 [1000.00, 3950.01]	2745.95 [1570.43, 5555.39]	2483.40 [1759.56, 3406.71]	
Missing	1 (0.5%)	2 (1.0%)	0 (0%)	

Due to significant differences in Study burden, we performed pairwise comparisons. P-values are adjusted with Tukey method.

contrast	estimate	SE	df	t.ratio	p.value
1 - 2	-449.57	65.34	419	-6.88	0.000
1 - 3	-169.75	176.36	419	-0.96	0.601
2 - 3	279.82	176.33	419	1.59	0.252
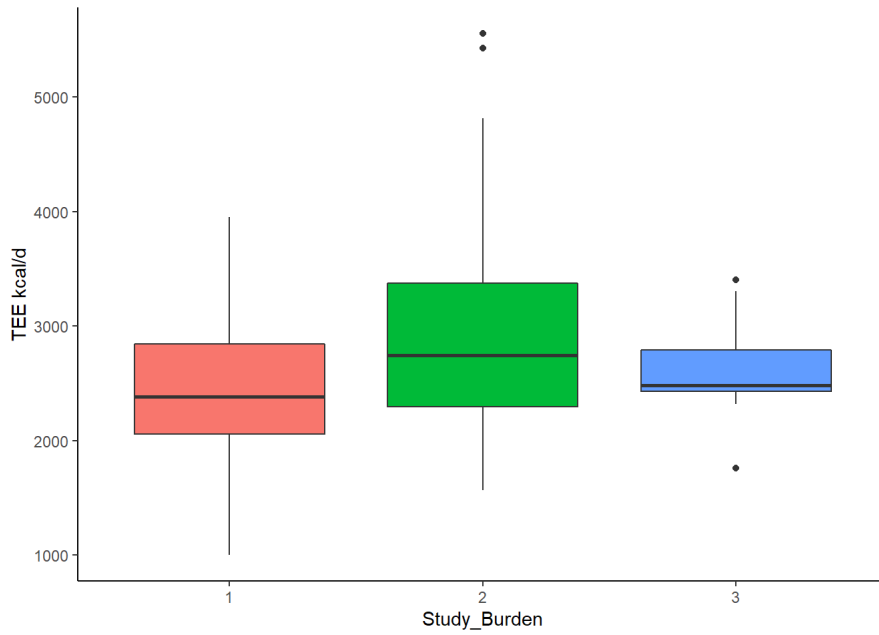
6.4.2 Medical Conditions

|	1 (N=361)	2 (N=64)	P-value ANOVA
TEE kcal/d			
N	358	64	0.0155
Mean (SD)	2701.28 (733.27)	2473.77 (353.59)	
Median [Min, Max]	2579.12 [1000.00, 5555.39]	2404.96 [1759.56, 3303.78]	
Missing	3 (0.8%)	0 (0%)	
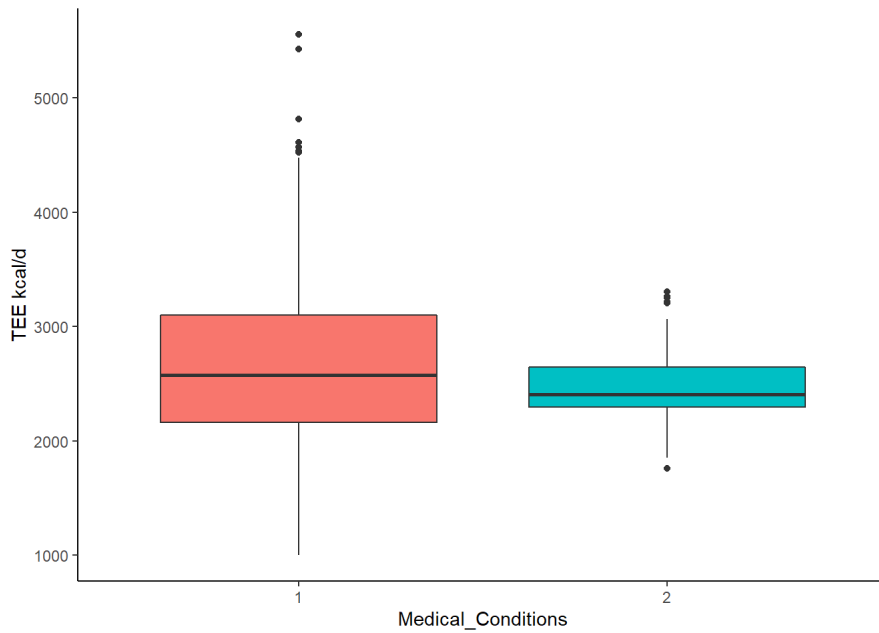
6.5 Adults

19+ years old

6.5.1 Study Burden

	1 (N=1520)	2 (N=1830)	3 (N=294)	4 (N=574)	P-value ANOVA
TEE kcal/d					
N	1518	1827	294	574	0.00129
Mean (SD)	2403.67 (593.09)	2371.66 (555.17)	2509.94 (766.67)	2415.57 (445.00)	

|	1 (N=1520)	2 (N=1830)	3 (N=294)	4 (N=574)	P-value ANOVA
Median [Min, Max]	2333.60 [833.81, 5444.56]	2267.34 [1060.91, 5237.61]	2301.63 [1291.03, 5088.24]	2337.58 [1577.09, 4688.94]	
Missing	2 (0.1%)	3 (0.2%)	0 (0%)	0 (0%)	

Due to significant differences in Study burden, we performed pairwise comparisons. P-values are adjusted with Tukey method.

contrast	estimate	SE	df	t.ratio	p.value
1 - 2	32.00	19.90	4209	1.61	0.374
1 - 3	-106.28	36.51	4209	-2.91	0.019
1 - 4	-11.91	28.08	4209	-0.42	0.974
2 - 3	-138.28	36.01	4209	-3.84	0.001
2 - 4	-43.91	27.42	4209	-1.60	0.378
3 - 4	94.37	41.10	4209	2.30	0.099
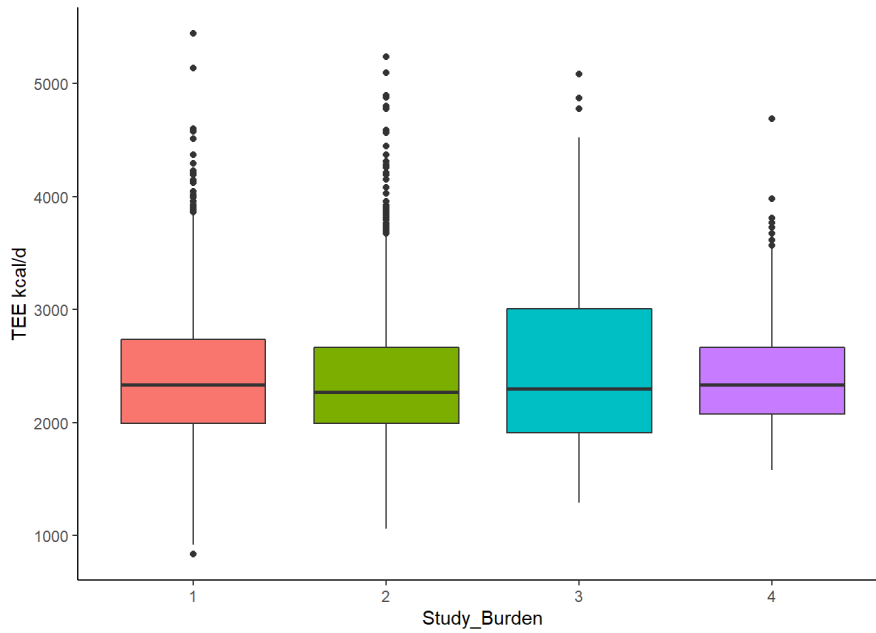
6.5.2 Medical Conditions

	1 (N=1143)	2 (N=3075)	P-value ANOVA
TEE kcal/d			
N	1142	3071	<0.001
Mean (SD)	2656.16 (648.32)	2303.13 (511.74)	
Median [Min, Max]	2550.15 [1132.49, 5444.56]	2220.16 [833.81, 5099.11]	
Missing	1 (0.1%)	4 (0.1%)	
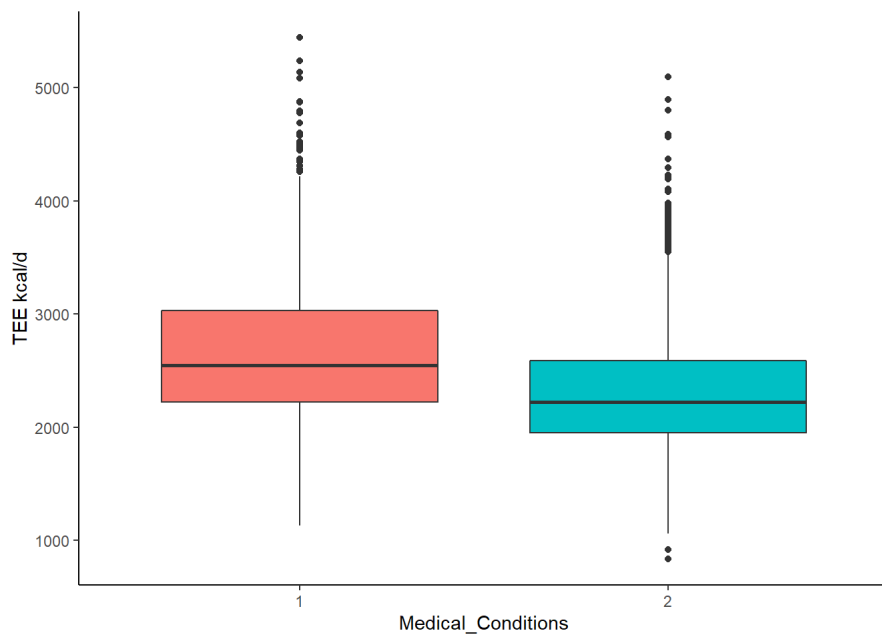
7 Lactating

Estimated means

P_stage	emmean	SE	df	lower.CL	upper.CL
Lactating 1-3 mo	2366.64	21.25	276.85	2324.82	2408.46
Lactating 4-6 mo	2388.67	22.88	275.60	2343.62	2433.71
NPNL	2405.25	17.63	275.48	2370.54	2439.95

Contrasts

contrast	estimate	SE	df	t.ratio	p.value
(Lactating 1-3 mo) - (Lactating 4-6 mo)	-22.03	29.88	236.71	-0.74	0.742
(Lactating 1-3 mo) - NPNL	-38.61	26.40	223.75	-1.46	0.311
(Lactating 4-6 mo) - NPNL	-16.58	26.88	186.82	-0.62	0.811