**The R code for computing physical activity scores:**

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###### Computing physical activity ###############################

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###### Physical activity at 9 years old: self-reported ###########

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# 1. SPORTs (HOURS/WEEK)

# C1100184\_cleaned : C11a Do you play sports at a sports club or sports team?

# 0 = No / 1 = Yes

table(df$C1100184\_cleaned)

table(is.na(df$C1100184\_cleaned))

df$sports\_participation\_9 <- ifelse(df$C1100184\_cleaned==0, 0,

ifelse(df$C1100184\_cleaned==1, 1, NA))

table(df$sports\_participation\_9)

table(is.na(df$sports\_participation\_9))

# C1100284\_cleaned: C11b How often do you play sports?

# 1 = 1 per week / 2 = 2 per week / 3 = 3 per week / 4 = 4 per week / 5 = 5 times or more per week

table(df$C1100284\_cleaned)

table(is.na(df$C1100284\_cleaned))

df$sports\_days\_9 <- ifelse(df$C1100284\_cleaned==1, 1,

ifelse(df$C1100284\_cleaned==2, 2,

ifelse(df$C1100284\_cleaned==3, 3,

ifelse(df$C1100284\_cleaned==4, 4,

ifelse(df$C1100284\_cleaned==5, 6, NA)))))

table(df$sports\_days\_9)

table(is.na(df$sports\_days\_9))

# total sport time (hours/week). I assume that each day they play sport for 1 hour, so no need to add (\* 1)

df$PAchildSPORT <- df$sports\_participation\_9 \* df$sports\_days\_9

describe(df$PAchildSPORT )

# 2. PLAY OUTSIDE (HOURS/WEEK)

# C1000184\_cleaned: C10a How many days a week do you play outside (think soccer or skating)?

# 1 = Never / 2 = Not every week / 3 = 1 d/w / 4 = 2 d/w / 5 = 3 d/w / 6 = 4 d/w / 7 = 5 d/w / 8 = >5d/w

table(df$C1000184\_cleaned)

table(is.na(df$C1000184\_cleaned))

df$play\_days\_9 <- ifelse(df$C1000184\_cleaned==1, 0,

ifelse(df$C1000184\_cleaned==2, 0.5,

ifelse(df$C1000184\_cleaned==3, 1,

ifelse(df$C1000184\_cleaned==4, 2,

ifelse(df$C1000184\_cleaned==5, 3,

ifelse(df$C1000184\_cleaned==6, 4,

ifelse(df$C1000184\_cleaned==7, 5,

ifelse(df$C1000184\_cleaned==8, 6, NA))))))))

table(df$play\_days\_9)

table(is.na(df$play\_days\_9))

# C1000284\_cleaned: C10b When you play out, how long do you play around outside?

# 1 = Less than 30 min/d / 2 = 30 to 60 min/d / 3 = 1 to 2 h/d / 4 = 2 to 3 h/d / 5 = 3 to 4 h/d / 6 = >4 h/d

# Recode: The score of the maximum value (i.e., more than 240 min) is increased in a 12.5% (as done for all the variables)

table(df$C1000284\_cleaned)

table(is.na(df$C1000284\_cleaned))

df$play\_min\_9 <- ifelse(df$C1000284\_cleaned==1, 15,

ifelse(df$C1000284\_cleaned==2, 45,

ifelse(df$C1000284\_cleaned==3, 90,

ifelse(df$C1000284\_cleaned==4, 150,

ifelse(df$C1000284\_cleaned==5, 210,

ifelse(df$C1000284\_cleaned==6, 270, NA))))))

table(df$play\_min\_9)

table(is.na(df$play\_min\_9))

# total play time (hours/week)

df$PAchildPLAY = df$play\_days\_9 \* (df$play\_min\_9 / 60)

describe(df$PAchildPLAY )

# 4. TOTAL PHYSICAL ACTIVITY (hours/week)

df$PAchildTOTAL = df$PAchildSPORT + df$PAchildPLAY

describe(df$PAchildTOTAL)

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###### Computing physical activity ###############################

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###### Physical activity at 9 years old: mothers' report #########

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# 1. SPORTs (HOURS/WEEK)

# H0700281\_cleaned : (GR1081 H7-b) How many hours per week does your child spend doing sports (training and compete together)?

# 1 = Less than 1 hour per week / 2 = 1 to 2 hours per week / 3 = 2 to 4 hours per week / 4 = More than 4 hours per week

# Recode: The score of the maximum value (i.e., more than 240 min) is increased in a 12.5% (as done for all the variables)

table(df$H0700281\_cleaned)

table(is.na(df$H0700281\_cleaned))

df$PAparentSPORT <- ifelse(df$H0700281\_cleaned==1, 0.5,

ifelse(df$H0700281\_cleaned==2, 1.5,

ifelse(df$H0700281\_cleaned==3, 3,

ifelse(df$H0700281\_cleaned==4, 4.5, NA))))

table(df$PAparentSPORT)

table(is.na(df$PAparentSPORT))

describe(df$PAparentSPORT)

# 2. PLAY OUTSIDE (MIN/WEEK)

# H0800181\_cleaned (GR1081 H8-a) On average how many days per week does your child play outside?

# 1 = Never / 2 = 1 or 2 days per week / 3 = 3 or 4 days per week / 4 = 5 or more days per week

table(df$H0800181\_cleaned)

table(is.na(df$H0800181\_cleaned))

df$play\_maternal\_report\_days\_9 <- ifelse(df$H0800181\_cleaned==1, 0,

ifelse(df$H0800181\_cleaned==2, 1.5,

ifelse(df$H0800181\_cleaned==3, 3.5,

ifelse(df$H0800181\_cleaned==4, 6, NA))))

table(df$play\_maternal\_report\_days\_9)

table(is.na(df$play\_maternal\_report\_days\_9))

# H0800281\_cleaned: (GR1081 H8-b) Approximately how long does your child approximately play outside per day? Only consider the days that your child plays outside.

# 1 = Less than 30 minutes per day / 2 = 30 minutes to 1 hour per day / 3 = 1 to 2 hours per day / 4 = 2 to 3 hours per day / 5 = 3 to 4 hours per day / 6 = More than 4 hours per day

# Recode: The score of the maximum value (i.e., more than 240 min) is increased in a 12.5% (as done for all the variables)

table(df$H0800281\_cleaned)

table(is.na(df$H0800281\_cleaned))

df$play\_maternal\_report\_min\_9 <- ifelse(df$H0800281\_cleaned==1, 0.25,

ifelse(df$H0800281\_cleaned==2, 0.75,

ifelse(df$H0800281\_cleaned==3, 1.5,

ifelse(df$H0800281\_cleaned==4, 2.5,

ifelse(df$H0800281\_cleaned==5, 3.5,

ifelse(df$H0800281\_cleaned==6, 4.5, NA))))))

table(df$play\_maternal\_report\_min\_9)

table(is.na(df$play\_maternal\_report\_min\_9))

# total play time (hours/week)

df$PAparentPLAY = df$play\_maternal\_report\_days\_9 \* df$play\_maternal\_report\_min\_9

describe(df$PAparentPLAY)

# 4. TOTAL PHYSICAL ACTIVITY (hours/week)

df$PAparentTOTAL = df$PAparentSPORT + df$PAparentPLAY

describe(df$PAparentTOTAL)