Q: Unique identifier for each grad/sib pair.
idpub=wls$idpub

Created variable = Respondent type (Graduate='g', Sibling='s') to distinguish between the grad/sib pair with the same idpub.
Rtypeg= factor(recode(wls$sexrsp,"else='g'"))
Rtypes=factor(recode(wls$ssbsex,"else='s'"))

Q: Did Participant ever have a heart attack or myocardial infarction? (2011, In person & telephone)
HA2011g=factor(recode(wls$hx352re,"'yes'='Yes';'no'='No';else=NA"))
HA2011s=factor(recode(wls$kx352re,"'yes'='Yes';'no'='No';else=NA"))

Created variable: If they answered 'No' to "-x351re" (see below), or "don't know" to this question, then the answer here is coded as "No".
HAC2011g=factor(recode(wls$hx352re,"NA=NA;'yes'='Yes';'no'='No';'not part of mosaq'=NA;'not ascertained'=NA;else='No'"))
HAC2011s=factor(recode(wls$kx352re,"NA=NA;'yes'='Yes';'no'='No';'not part of mosaq'=NA;'not ascertained'=NA;else='No'"))

2004, 2005:
HA2004g=factor(recode(wls$gx352re,"'yes'='Yes';'no'='No';else=NA"))
HA2004s=factor(recode(wls$cx352re,"'yes'='Yes';'no'='No';else=NA"))

Created variable: If they answered 'No' to "-x351re" (see below), or "don't know" to this question, then the answer here is coded as "No".
HAC2004g=factor(recode(wls$gx352re,"NA=NA;'yes'='Yes';'no'='No';'refused'=NA;else='No'"))
HAC2004s=factor(recode(wls$cx352re,"NA=NA;'yes'='Yes';'no'='No';else='No'"))

Q: Has a doctor ever told Participant they had a heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems? (2011; In person & telephone)
doc2011g=factor(recode(wls$hx351re,"'yes'='Yes';'no'='No';else=NA"))
doc2011s=factor(recode(wls$kx351re,"'yes'='Yes';'no'='No';else=NA"))

2004, 2005:
doc2004g=factor(recode(wls$gx351re,"'yes'='Yes';'no'='No';else=NA"))
doc2004s=factor(recode(wls$cx351re,"'yes'='Yes';'no'='No';else=NA"))

Q: Sex of Respondent (1957, 1975)
sexg=factor(recode(wls$sexrsp,"'female'='Female';'male'='Male';else=NA"))
sexs=factor(recode(wls$ssbsex,"'female'='Female';'male'='Male';else=NA"))

Q: Respondent's current age (Age 1975 and 1977 plus years till now (2014)).
ageg=(recode(wls$age75,"c(-2,-3)=NA")+39)
ages=(recode(wls$age77,"c(-2,-3)=NA")+37)

Q: Respondent's year of birth (2-digit) + 1900. (Updated)
birthyrg=(recode(wls$brdxdy,"-3=NA")+1900)
birthyrs=(recode(wls$xbrdxdy,"c(-2,-3)=NA")+1900)

Q: Total number of respondent's children. (1993, 1994; telephone)
child1993g=recode(wls$rd001kd,"-3=NA")
child1993s=recode(wls$sd001kd,"-3=NA")

2004, 2005:
child2004g=recode(wls$gd001kd,"c(-2,-4)=NA")
child2004s=(wls$cd001kd)

2011:
child2011g=as.numeric(as.character(factor(recode(wls$hd001kd,"'no child reported in 2011 children module'='0';'1 child'='1';'2 children'='2';'3 children'='3';'4 children'='4';'5 children'='5';'6 children'='6';'7 children'='7';'8 children'='8';'9 children'='9';'10 children'='10';else=NA"))))
child2011s=as.numeric(as.character(factor(recode(wls$kd001kd,"'no child reported in 2011 children module'='0';'1 child'='1';'2 children'='2';'3 children'='3';'4 children'='4';'5 children'='5';'6 children'='6';'7 children'='7';'8 children'='8';'9 children'='9';'10 children'='10';else=NA"))))

Q: Preferred measure of IQ score mapped from raw Henmon-Nelson test score. (1957)
IQg=(wls$gwiiq_bm)

Q: Preferred measure of sibling IQ score, mapped from raw Henmon-Nelson test score based on transformed raw score. (1977)
IQs=recode(wls$swiiq_t,"c(-3,-2)=NA")

Q: Were there any deceased children at time of 1993 or 2004 interview? (2004, 2005; phone)
Dchild2004g=factor(recode(wls$gd102kd,"'at least 1 child dead by 92 interview'='1by94';'at least 1 by 2003-05 intv, none in 1992'='1by2004';'no child deceased by 2003-05 interview'='None';else=NA"))
Dchild2004s=factor(recode(wls$cd102kd,"'at least 1 child dead by 94 interview'='1by94';'at least 1 by 2004-05 intv, none in 1994'='1by2004';'no child deceased by 2004-05 interview'='None';else=NA"))

Q: What is your current marital status? (1993, 1994; phone)
married1993g=factor(recode(wls$rc001re,"'currently married'='Married';'divorced'='Not married';'never married'='Not married';'widowed'='Not married';'separated'='Not married';else=NA"))
married1993s=factor(recode(wls$sc001re,"'currently married'='Married';'divorced'='Not married';'never married'='Not married';'widowed'='Not married';'separated'='Not married';else=NA"))

2004, 2005:
married2004g=factor(recode(wls$gc001re,"'currently married'='Married';'divorced'='Not married';'never married'='Not married';'widowed'='Not married';'separated'='Not married';else=NA"))
married2004s=factor(recode(wls$cc001re,"'currently married'='Married';'divorced'='Not married';'never married'='Not married';'widowed'='Not married';'separated'='Not married';else=NA"))

2011:
married2011g=factor(recode(wls$hc001re,"'currently married'='Married';'divorced'='Not married';'never married'='Not married';'widowed'='Not married';'separated'='Not married';else=NA"))
married2011s=factor(recode(wls$kc001re,"'currently married'='Married';'divorced'='Not married';'never married'='Not married';'widowed'='Not married';'separated'='Not married';else=NA"))

Q: Closeness with current spouse? (1993, 1994; phone)
closeS1993g=factor(recode(wls$rc040re,"'not at all close'='Not at all close';'not very close'='Not very close';'somewhat close'='Somewhat close';'very close'='Very close';else=NA"),ordered=TRUE)
closeS1993s=factor(recode(wls$sc040rec,"'not at all close'='Not at all close';'not very close'='Not very close';'somewhat close'='Somewhat close';'very close'='Very close';else=NA"),ordered=TRUE)

2004, 2005:
closeS2004g=factor(recode(wls$gc040re,"'not at all close'='Not at all close';'not very close'='Not very close';'somewhat close'='Somewhat close';'very close'='Very close';else=NA"),ordered=TRUE)
closeS2004s=factor(recode(wls$cc040re,"'not at all close'='Not at all close';'not very close'='Not very close';'somewhat close'='Somewhat close';'very close'='Very close';else=NA"),ordered=TRUE)

2011:
closeS2011g=factor(recode(wls$hc040re,"'not at all close'='Not at all close';'not very close'='Not very close';'somewhat close'='Somewhat close';'very close'='Very close';else=NA"),ordered=TRUE)
closeS2011s=factor(recode(wls$kc040re,"'not at all close'='Not at all close';'not very close'='Not very close';'somewhat close'='Somewhat close';'very close'='Very close';else=NA"),ordered=TRUE)

Can't include zeros when using 'log', so converted zeros to '50' first, then used log10.
Q: Total Household Income – THI. (2004, 2005; phone)
THI2004g=log10(recode(wls$gp260hec,"'0'='50';'-5'=NA"))
THI2004s=log10(recode(wls$cp260hec,"'0'='50';'-5'=NA"))

2011:
THI2011g=log10(recode(wls$hp260hec,"'0'='50';'-5'=NA"))
THI2011s=log10(recode(wls$kp260hec,"'0'='50';'-5'=NA;'-27'=NA"))

Q: Importance of respondent's financial situation. (1993, 1994; phone)
finimp1993g=factor(recode(wls$rb036re,"'not at all imprtnt'='Not at all';'not very important'='Not very';'somewhat important'='Somewhat';'very important'='Very';else=NA"),ordered=TRUE)
finimp1993s=factor(recode(wls$sb039re,"'not at all'='Not at all';'not very'='Not very';'somewhat'='Somewhat';'very'='Very';else=NA"),ordered=TRUE)

Q: To what extent are you satisfied with your present financial situation? 2004, 2005:
satfin2004g=factor(recode(wls$gp226re,"'completely'='Completely';'very'='Very';'somewhat'='Somewhat';'not very'='Not very';'not at all'='Not at all';else=NA"),levels=c("Not at all","Not very","Somewhat","Very","Completely"),ordered=TRUE)
satfin2004s=factor(recode(wls$cp226re,"'completely'='Completely';'very'='Very';'somewhat'='Somewhat';'not very'='Not very';'not at all'='Not at all';else=NA"),levels=c("Not at all","Not very","Somewhat","Very","Completely"),ordered=TRUE)

Q: How satisfied are you with your present financial situation? (In person) 2011:
satfin2011g=factor(recode(wls$hp226re,"'completely satisfied'='Completely';'very satisfied'='Very';'somewhat satisfied'='Somewhat';'not very satisfied'='Not very';'not at all satisfied'='Not at all';else=NA"),levels=c("Not at all","Not very","Somewhat","Very","Completely"),ordered=TRUE)
satfin2011s=factor(recode(wls$kp226re,"'completely satisfied'='Completely';'very satisfied'='Very';'somewhat satisfied'='Somewhat';'not very satisfied'='Not very';'not at all satisfied'='Not at all';else=NA"),levels=c("Not at all","Not

very","Somewhat","Very","Completely"),ordered=TRUE)

Q: Has any biological parent or sibling had a heart attack before age 55? (2004, 2005; mail)
HArelless552004g=factor(recode(wls$ixa06rec,"'yes'='Yes';'no'='No';else=NA"))
HArelless552004s=factor(recode(wls$dxa06rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Has any biological parent or sibling had a heart attack age 55 or older? (2004, 2005; mail)
HArelmore552004g=factor(recode(wls$ixa07rec,"'yes'='Yes';'no'='No';else=NA"))
HArelmore552004s=factor(recode(wls$dxa07rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a medical professional ever said that you have high cholesterol? (2004, 2005; mail) (No 1993, 1994 GR-Question)
highchol2004g=factor(recode(wls$ix146rer,"'yes'='Yes';'no'='No';else=NA"))
highchol2004s=factor(recode(wls$dx146rer,"'yes'='Yes';'no'='No';else=NA"))

2011:
highchol2011g=factor(recode(wls$jx146rer,"'yes'='Yes';'no'='No';else=NA"))
highchol2011s=factor(recode(wls$px146rer,"'yes'='Yes';'no'='No';else=NA"))

Q: How old were you when you were first diagnosed with high cholesterol? (2004, 2005; mail)
highcholage2004g=recode(wls$ix146are,"c(-1,-2,-3)=NA")
highcholage2004s=recode(wls$dx146are,"c(-1,-2,-3)=NA")

2011:
highcholage2011g=recode(wls$jx146are,"c(-29,-3,-2,-1)=NA")
highcholage2011s=recode(wls$px146are,"c(-29,-3,-2,-1)=NA")

Q: Has any biological parent or sibling had high blood cholesterol? (2004, mail)
highcholfam2004g=factor(recode(wls$ixa03rec,"'yes'='Yes';'no'='No';else=NA"))
highcholfam2004s=factor(recode(wls$dxa03rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a medical professional ever said you have high blood pressure? (1993, 1994; mail)
highbp1993g=factor(recode(wls$mx101rer,"'has symptom'='Yes';'no symptom'='No';else=NA"))
highbp1993s=factor(recode(wls$nx121rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a doctor told you that you have high blood pressure or hypertension? (phone) 2004, 2005:
highbp2004g=factor(recode(wls$gx341re,"'yes'='Yes';'no'='No';else=NA"))
highbp2004s=factor(recode(wls$cx341re,"'yes'='Yes';'no'='No';else=NA"))

2011:
highbp2011g=factor(recode(wls$hx341re,"'yes'='Yes';'no'='No';else=NA"))
highbp2011s=factor(recode(wls$kx341re,"'yes'='Yes';'no'='No';else=NA"))

Q: Year Participant was first diagnosed with high blood pressure or hypertension. (2011, In person & telephone)
highbpyrdiag2011g=recode(wls$hx341rea,"c(-30,-4,-3,-2,-1)=NA")
highbpyrdiag2011s=recode(wls$kx341rea,"c(-30,-4,-2,-1)=NA")

Q: Age participant was first diagnosed with high blood pressure (Year Participant was first diagnosed with high blood pressure or hypertension (2011) – year participant was born).
highbpagediag2011g=((recode(wls$hx341rea,"c(-30,-4,-3,-2,-1)=NA"))-(recode(wls$brdxdy,"-3=NA")+1900))
highbpagediag2011s=((recode(wls$kx341rea,"c(-30,-4,-2,-1)=NA"))-(recode(wls$xbrdxdy,"c(-2,-3)=NA")+1900))

Q: Has a medical professional ever said that you have osteoporosis? (2004, 2005; mail)
osteo2004g=factor(recode(wls$ix150rer,"'yes'='Yes';'no'='No';else=NA"))
osteo2004s=factor(recode(wls$dx150rer,"'yes'='Yes';'no'='No';else=NA"))

2011:
osteo2011g=factor(recode(wls$jx150rer,"'yes'='Yes';'no'='No';else=NA"))
osteo2011s=factor(recode(wls$px150rer,"'yes'='Yes';'no'='No';else=NA"))

Q: How old were you when you were first diagnosed with osteoporosis? (2004, 2005; mail)
osteoagediag2004g=recode(wls$ix150are,"c(-3,-2)=NA")
osteoagediag2004s=recode(wls$dx150are,"c(-3,-2,-1)=NA")

2011:
osteoagediag2011g=recode(wls$jx150are,"c(-29,-3,-2,-1)=NA")
osteoagediag2011s=recode(wls$px150are,"c(-29,-3,-2,-1)=NA")

Q: Has any biological parent or sibling had osteoporosis? (2004, 2005; mail)
osteofam2004g=factor(recode(wls$ixa11rec,"'yes'='Yes';'no'='No';else=NA"))
osteofam2004s=factor(recode(wls$dxa11rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a doctor ever told you that you had a stroke? (2004, 2005; phone)
stroke2004g=factor(recode(wls$gx356re,"'yes'='Yes';'no'='No';else=NA"))
stroke2004s=factor(recode(wls$cx356re,"'yes'='Yes';'no'='No';else=NA"))

2011:
stroke2011g=factor(recode(wls$hx356re,"'yes'='Yes';'no'='No';else=NA"))
stroke2011s=factor(recode(wls$kx356re,"'yes'='Yes';'no'='No';else=NA"))

Q: Year Participant was first diagnosed with a stroke. (2011, In person & telephone)
strokeyrdiag2011g=recode(wls$hx395re,"c(-30,-4,-2,-1)=NA")
strokeyrdiag2011s=recode(wls$kx395re,"c(-30,-2,-1)=NA")

Q: In what year did you last have a stroke? (2004, 2005; phone)
strokeyrlast2004g=recode(wls$gx357re,"c(-1,-2)=NA")
strokeyrlast2004s=recode(wls$cx357re,"c(-1,-2)=NA")

2011:
strokeyrlast2011g=recode(wls$hx357re,"c(-30,-4,1,-1,-2)=NA")
strokeyrlast2011s=recode(wls$kx357re,"c(-30,-2,-1,1)=NA")

Q: Number of strokes a doctor has diagnosed Participant as having. (2011, In person & telephone)
strokehad2011g=recode(wls$hx396re,"c(-30,-4,-1,-2)=NA")
strokehad2011s=recode(wls$kx396re,"c(-30,-1,-2)=NA")

Q: Has any biological parent or sibling had a stroke before age 65? (2004, 2005; mail)
strokefamless652004g=factor(recode(wls$ixa04rec,"'yes'='Yes';'no'='No';else=NA"))
strokefamless652004s=factor(recode(wls$dxa04rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Has any biological parent or sibling had a stroke age 65 or older? (2004, 2005; mail)
strokefammore652004g=factor(recode(wls$ixa05rec,"'yes'='Yes';'no'='No';else=NA"))
strokefammore652004s=factor(recode(wls$dxa05rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a medical professional ever said you have diabetes? (1993, 1994; mail)
diabetes1993g=factor(recode(wls$mx095rer,"'has symptom'='Yes';'no symptom'='No';else=NA"))
diabetes1993s=factor(recode(wls$nx115rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a doctor ever told you that you have diabetes? (phone) 2004, 2005:
diabetes2004g=factor(recode(wls$gx342re,"'yes'='Yes';'no'='No';else=NA"))
diabetes2004s=factor(recode(wls$cx342re,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a doctor ever told participant they have diabetes? (In person & telephone) 2011:
diabetes2011g=factor(recode(wls$hx342re,"'yes'='Yes';'no'='No';else=NA"))
diabetes2011s=factor(recode(wls$kx342re,"'yes'='Yes';'no'='No';else=NA"))

Q: In what year were you first diagnosed with diabetes? (2004, 2005; phone)
diabdiag2004g=recode(wls$gx343re,"c(-1,-2,-3)=NA")
diabdiag2004s=recode(wls$cx343re,"c(-1,-2)=NA")

2011:
diabdiag2011g=recode(wls$hx343re,"c(-30,-1,-2)=NA")
diabdiag2011s=recode(wls$kx343re,"c(-30,-4,-1,-2)=NA")

Q: Type of diabetes Participant was diagnosed with. (2011, In person & telephone)
diabtype2011g=factor(recode(wls$hx363re,"'type 1'='Type 1';'type 2'='Type 2';'borderline'='Borderline';'pre-diabetes'='Pre-Diabetes';'other'='Other';else=NA"))
diabtype2011s=factor(recode(wls$kx363re,"'type 1'='Type 1';'type 2'='Type 2';'borderline'='Borderline';'pre-diabetes'='Pre-Diabetes';'other'='Other';else=NA"))

Q: Has any biological parent or sibling had diabetes or high blood sugar? (2004, 2005; mail)
diabfam2004g=factor(recode(wls$ixa08rec,"'yes'='Yes';'no'='No';else=NA"))
diabfam2004s=factor(recode(wls$dxa08rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Has any biological parent or sibling had Alzheimer's disease? (2004, mail)
alzrel2004g=factor(recode(wls$ixa09rec,"'yes'='Yes';'no'='No';else=NA"))
alzrel2004s=factor(recode(wls$dxa09rec,"'yes'='Yes';'no'='No';else=NA"))

Created Variable: Number of years respondent has smoked, including zeros for those that have never smoked: 2011:
smokyrsX2011g= ifelse((factor(recode(wls$jx012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$jx014rer,"c(-27,-4,-2)=NA")))
smokyrsX2011s= ifelse((factor(recode(wls$px012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$px014rer,"c(-27,-4,-2)=NA")))

Created Variable: Number of packs/day smoked by respondent, including zeros for those that have never smoked: 2011:
smokpkdayX2011g= ifelse((factor(recode(wls$jx012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$jx015rer,"c(-27,-4,-2,-1)=NA")))
smokpkdayX2011s= ifelse((factor(recode(wls$px012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$px015rer,"c(-27,-4,-2,-1)=NA")))

Created Variable: Number of packs/day smoked * number of years respondent has smoked (=Pack-Yrs), including zeros for respondents that have never smoked: 2011:
smokpkyrs2011g=(ifelse((factor(recode(wls$jx012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$jx014rer,"c(-27,-4,-2)=NA"))))*(ifelse((factor(recode(wls$jx012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$jx015rer,"c(-27,-4,-2,-1)=NA")))))
smokpkyrs2011s=(ifelse((factor(recode(wls$px012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$px014rer,"c(-27,-4,-2)=NA"))))*(ifelse((factor(recode(wls$px012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$px015rer,"c(-27,-4,-2,-1)=NA")))))

Created Variable: Number of years respondent has smoked, including zeros for those that have never smoked: 2004:
smokyrsX2004g= ifelse((factor(recode(wls$ix012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$ix014rer,"-2=NA")))
smokyrsX2004s= ifelse((factor(recode(wls$dx012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$dx014rer,"-2=NA")))

Created Variable: Number of packs/day smoked by respondent, including zeros for those that have never smoked: 2004:
smokpkdayX2004g= ifelse((factor(recode(wls$ix012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$ix015rer,"c(-3,-2)=NA")))
smokpkdayX2004s= ifelse((factor(recode(wls$dx012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$dx015rer,"c(-3,-2)=NA")))

Created Variable: Number of packs/day smoked * number of years respondent has smoked (=Pack-Yrs), including zeros for respondents that have never smoked: 2004:
smokpkyrs2004g=(ifelse((factor(recode(wls$ix012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$ix014rer,"-2=NA"))))*(ifelse((factor(recode(wls$ix012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$ix015rer,"c(-3,-2)=NA")))))
smokpkyrs2004s=(ifelse((factor(recode(wls$dx012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$dx014rer,"-2=NA"))))*(ifelse((factor(recode(wls$dx012rer,"'yes'='Yes';'no'='No';else=NA")))=="No",0,(recode(wls$dx015rer,"c(-3,-2)=NA")))))

Q: Have you ever smoked cigarettes regularly? (1993, 1994; mail)
smokever1993g=factor(recode(wls$mx012rer,"'yes'='Yes';'no'='No';else=NA"))
smokever1993s=factor(recode(wls$nx038rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever smoked cigarettes regularly in your entire life? (mail) 2004, 2005:
smokever2004g=factor(recode(wls$ix012rer,"'yes'='Yes';'no'='No';else=NA"))
smokever2004s=factor(recode(wls$dx012rer,"'yes'='Yes';'no'='No';else=NA"))

2011:
smokever2011g=factor(recode(wls$jx012rer,"'yes'='Yes';'no'='No';else=NA"))
smokever2011s=factor(recode(wls$px012rer,"'yes'='Yes';'no'='No';else=NA"))

Q: How old were you when you started smoking cigarettes regularly? (2004, 2005; mail)
smokstartage2004g=recode(wls$ixt06rer,"c(-3,-2,-1)=NA")
smokstartage2004s=recode(wls$dxt06rer,"c(-3,-2,-1)=NA")

2011:
smokstartage2011g=recode(wls$jxt06rer,"c(-29,-27,-2,-1)=NA")
smokstartage2011s=recode(wls$pxt06rer,"c(-29,-27,-3,-2,-1)=NA")

Q: Do you smoke regularly now? (1993, 1994; mail)
smokenow1993g=factor(recode(wls$mx013rer,"'yes'='Yes';'no'='No';else=NA"))
smokenow1993s=factor(recode(wls$nx039rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Does Graduate Respondent currently smoke cigarettes? 2004, 2005:
smokenow2004g=factor(recode(wls$ix013rec,"'yes'='Yes';'no'='No';else=NA"))
smokenow2004s=factor(recode(wls$dx013rec,"'yes'='Yes';'no'='No';else=NA"))

2011:
smokenow2011g=factor(recode(wls$jx013rec,"'yes'='Yes';'no'='No';else=NA"))
smokenow2011s=factor(recode(wls$px013rec,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever smoked a pipe or cigars, or used snuff or chewing tobacco regularly in your entire life? (2004, 2005; mail)
smokepipe2004g=factor(recode(wls$ixt01rer,"'yes'='Yes';'no'='No';else=NA"))
smokepipe2004s=factor(recode(wls$dxt01rer,"'yes'='Yes';'no'='No';else=NA"))

Q: About how many packs did/do you usually smoke per day then/now? (1993, 1994; mail)
smokpkday1993g=factor(recode(wls$mx015rer,"'half a pack or less'='hlfpkorless';'one pack'='1pk';'two packs'='2pks';'three packs'='3pks';'four packs or more'='4pksormore';'one or more cigars'='1ormorecigars';'1/mre bwl pipe tbcco'='1/mrebwlpipetbcco';else=NA"))
smokpkday1993s=factor(recode(wls$nx041red,"'half a pack or less'='hlfpkorless';'one pack'='1pk';'two packs'='2pks';'three packs'='3pks';'four packs or more'='4pksormore';'one or more cigars'='1ormorecigars';'1/mre bwl pipe tobac'='1/mrebwlpipetbcco';else=NA"))

Q: Number of packs of cigarettes participant currently smokes per day or did smoke per day when they smoked regularly. 2004, 2005:
smokpkday2004g=recode(wls$ix015rer,"c(-3,-2)=NA")

Q: About how many packs did/do you usually smoke per day then/now?
smokpkday2004s=recode(wls$dx015rer,"c(-3,-2)=NA")

2011:
smokpkday2011g=recode(wls$jx015rer,"c(-27,-4,-2,-1)=NA")
smokpkday2011s=recode(wls$px015rer,"c(-27,-4,-2,-1)=NA")

Q: On average, how many packs of cigarettes do you smoke a day? (2004, 2005; mail)
smokpkperday2004g=recode(wls$ixt08rer,"c(-3,-2)=NA")
smokpkperday2004s=recode(wls$dxt08rer,"c(-3,-2)=NA")

2011:
smokpkperday2011g=recode(wls$jxt08rer,"c(-29,-27,-4,-2,-1)=NA")
smokpkperday2011s=recode(wls$pxt08rer,"c(-29,-27,-4,-3,-2,-1)=NA")

Q: About how many packs of cigarettes did you usually smoke per day when you smoked regularly? (2004, 2005; mail)
smokpksmreg2004g=recode(wls$ixt10rer,"c(-3,-2)=NA")
smokpksmreg2004s=recode(wls$dxt10rer,"c(-3,-2)=NA")

2011:
smokpksmreg2011g=recode(wls$jxt10rer,"c(-29,-27,-4,-2,-1)=NA")
smokpksmreg2011s=recode(wls$pxt10rer,"c(-29,-27,-4,-2)=NA")

Q: For how many years did/have you smoke/d regularly? (1993, 1994; mail)
smokyrs1993g=recode(wls$mx014rer,"c(-3,-2)=NA")
smokyrs1993s=recode(wls$nx040red,"c(-3,-2)=NA")

Q: Number of years the participant has smoked cigarettes regularly or did smoke cigarettes regularly.
2004, 2005:
smokyrs2004g=recode(wls$ix014rer,"-2=NA")
smokyrs2004s=recode(wls$dx014rer,"-2=NA")

2011:
smokyrs2011g=recode(wls$jx014rer,"c(-27,-4,-2)=NA")
smokyrs2011s=recode(wls$px014rer,"c(-27,-4,-2)=NA")

Q: How old were you when you last smoked cigarettes? (2004, 2005; mail)
smoklastage2004g=recode(wls$ixt11rer,"c(-1,-2,-3)=NA")
smoklastage2004s=recode(wls$dxt11rer,"c(-1,-2,-3)=NA")

2011:
smoklastage2011g=recode(wls$jxt11rer,"c(-29,-27,-4,-1,-2)=NA")
smoklastage2011s=recode(wls$pxt11rer,"c(-29,-27,-4,-1,-2)=NA")

Q: Body mass index based on respondent's weight and height. (1993, 1994; mail)
BMI1993g=recode(wls$mx011rec,"-3=NA")
BMI1993s=recode(wls$nx025rec,"-3=NA")

Q: Respondent's Body Mass Index based on their reported weight and height. (2004, 2005; mail)
BMI2004g=recode(wls$ix011rec,"c(-2,-4)=NA")
BMI2004s=recode(wls$dx011rec,"c(-2,-4)=NA")

Q: Respondent's Body Mass Index based on their reported weight and height. (2011; mail)
BMI2011g=recode(wls$jx011rec,"c(-4,-2)=NA")
BMI2011s=recode(wls$px011rec,"c(-4,-2)=NA")

Q: How old were you when you weighed the most? (2004, 2005; mail)
ageweighmost2004g=recode(wls$ixw02rer,"c(-1,-3,-4)=NA")
ageweighmost2004s=recode(wls$dxw02rer,"c(-1,-2,-3,-4)=NA")

2011:
ageweighmost2011g=recode(wls$jxw02rer,"c(-29,-1,-4)=NA")
ageweighmost2011s=recode(wls$pxw02rer,"c(-29,-1,-3,-4)=NA")

Q: Do you consider yourself now to be overweight, underweight, or about the right weight? (2004, 2005; mail)
rightweight2004g=factor(recode(wls$ixw05rer,"'overweight'='Overweight';'underweight'='Underweight';'about the right weight'='Right weight';else=NA"))
rightweight2004s=factor(recode(wls$dxw05rer,"1='Overweight';2='Underweight';3='Right weight';else=NA"))

2011:
rightweight2011g=factor(recode(wls$jxw05rer,"'overweight'='Overweight';'underweight'='Underweight';'about the right weight'='Right weight';else=NA"))
rightweight2011s=factor(recode(wls$pxw05rer,"'overweight'='Overweight';'underweight'='Underweight';'about the right weight'='Right weight';else=NA"))

Q: Are you using physical activities or exercise to lose or maintain your weight? (2004, 2005; mail)
exerweight2004g=factor(recode(wls$ixw08rer,"'yes'='Yes';'no'='No';else=NA"))
exerweight2004s=factor(recode(wls$dxw08rer,"'yes'='Yes';'no'='No';else=NA"))

2011:
exerweight2011g=factor(recode(wls$jxw08rer,"'yes'='Yes';'no'='No';else=NA"))
exerweight2011s=factor(recode(wls$pxw08rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Are you actively trying to lose weight or maintain a desirable weight? (2004, 2005; mail)
tryweight2004g=factor(recode(wls$ixw06rer,"'no'='Not trying';'yes, trying to lose weight'='Trying to lose';'yes, trying to maintain weight'='Trying to maintain';else=NA"))
tryweight2004s=factor(recode(wls$dxw06rer,"1='Not trying';2='Trying to lose';3='Trying to maintain';else=NA"))

2011:
tryweight2011g=factor(recode(wls$jxw06rer,"'not trying to lose/maintain weight'='Not trying';'yes, trying to lose weight'='Trying to lose';'yes, trying to maintain desirable weight'='Trying to maintain';else=NA"))
tryweight2011s=factor(recode(wls$pxw06rer,"'not trying to lose/maintain weight'='Not trying';'yes,

trying to lose weight'='Trying to lose';'yes, trying to maintain desirable weight'='Trying to maintain';else=NA"))

Q: Up to the present time and excluding pregnancies, what is the most you have ever weighed in pounds? (2004, 2005; mail)
mosteverweigh2004g=recode(wls$ixw01rer,"c(-4,-3,-1)=NA")
mosteverweigh2004s=recode(wls$dxw01rer,"c(-4,-3,-2,-1)=NA")

2011:
mosteverweigh2011g=recode(wls$jxw01rer,"c(-29,-1)=NA")
mosteverweigh2011s=recode(wls$pxw01rer,"c(-29,-3,-1)=NA")

Q: How many hours per month do you participate in light physical activities, either alone or with others? (2004, 2005; mail)
ltactaloneothers2004g=recode(wls$ixe01rer,"-2=NA")
ltactaloneothers2004s=recode(wls$dxe01rer,"-2=NA")

Q: How many hours per month do you participate in vigorous physical activities, either alone or with others? (2004, 2005; mail)
vgactaloneothers2004g=recode(wls$ixe02rer,"-2=NA")
vgactaloneothers2004s=recode(wls$dxe02rer,"-2=NA")

Q: During the past year, about how many hours per month did you spend doing light physical activities that you do alone, such as light housework, gardening, or walking by yourself? (2004, 2005; mail)
ltactalone2004g=recode(wls$iz165rer,"c(-1,-3)=NA")
ltactalone2004s=recode(wls$dz165rer,"c(-1,-3)=NA")

2011:
ltactalone2011g=recode(wls$jz165rer,"c(-29,-3,-1)=NA")
ltactalone2011s=recode(wls$pz165rer,"c(-29,-1,-3)=NA")

Q: During the past year, about how many hours per month did you spend doing light physical activities that you do with others, such as walking with friends, bowling, playing softball or other team sports with light activity? (2004, 2005; mail)
ltactothers2004g=recode(wls$iz168rer,"c(-1,-3)=NA")
ltactothers2004s=recode(wls$dz168rer,"c(-1,-3)=NA")

2011:
ltactothers2011g=recode(wls$jz168rer,"c(-29,-3,-1)=NA")
ltactothers2011s=recode(wls$pz168rer,"c(-29,-1,-3)=NA")

Q: How often did you spend doing light physical activities that you do alone, such as light housework, gardening, or walking by yourself about 10 years ago? (2004, 2005; mail)
ltactalone10yrsago2004g=factor(recode(wls$iz166rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
ltactalone10yrsago2004s=factor(recode(wls$dz166rer,"'often'='Often';'rarely'='Rarely';'never'='Never';e

lse=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do light physical activities that you do alone – such as light housework, gardening, or walking by yourself – about 5 years ago? (2011; mail)
ltactalone5yrsago2011g=factor(recode(wls$jz166rer,"'often'='Often';'rarely'='Rarely';'never'='Never';els e=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
ltactalone5yrsago2011s=factor(recode(wls$pz166rer,"'often'='Often';'rarely'='Rarely';'never'='Never';el se=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do light physical activities that you do with others, such as walking with friends, bowling, playing softball or other team sports with light activity about 10 years ago? (2004, 2005; mail)
ltactothers10yrsago2004g=factor(recode(wls$iz169rer,"'often'='Often';'rarely'='Rarely';'never'='Never'; else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
ltactothers10yrsago2004s=factor(recode(wls$dz169rer,"'often'='Often';'rarely'='Rarely';'never'='Never'; else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do light physical activities that you do with others – such as walking with friends, bowling, playing softball or other team sports with light activity – about 5 years ago? (2011; mail)
ltactothers5yrsago2011g=factor(recode(wls$jz169rer,"'often'='Often';'rarely'='Rarely';'never'='Never';el se=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
ltactothers5yrsago2011s=factor(recode(wls$pz169rer,"'often'='Often';'rarely'='Rarely';'never'='Never';el se=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you spend doing light physical activities that you do alone, such as light housework, gardening, or walking by yourself when you were about 35? (2004, 2005; mail)
ltactalonewhen352004g=factor(recode(wls$iz167rer,"'often'='Often';'rarely'='Rarely';'never'='Never';els e=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
ltactalonewhen352004s=factor(recode(wls$dz167rer,"'often'='Often';'rarely'='Rarely';'never'='Never';el se=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do light physical activities that you do with others, such as walking with friends, bowling, playing softball or other team sports with light activity when you were about 35? (2004, 2005; mail)
ltactotherswhen352004g=factor(recode(wls$iz170rer,"'often'='Often';'rarely'='Rarely';'never'='Never';el se=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
ltactotherswhen352004s=factor(recode(wls$dz170rer,"'often'='Often';'rarely'='Rarely';'never'='Never';el se=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: During the past year, about how many hours per month did you spend doing vigorous physical activities that you do alone, such as jogging, swimming, biking, or going to the gym by yourself? (2004, 2005; mail)
vgactalone2004g=recode(wls$iz171rer,"c(-1,-3)=NA")
vgactalone2004s=recode(wls$dz171rer,"c(-1,-3)=NA")

2011:
vgactalone2011g=recode(wls$jz171rer,"c(-29,-1,-3,-4)=NA")
vgactalone2011s=recode(wls$pz171rer,"c(-29,-4,-1,-3)=NA")

Q: During the past year, about how many hours per month did you spend doing vigorous physical activities that you do with others, such as playing team sports, jogging, swimming, biking, or going to the gym with friends? (2004, 2005; mail)
vgactothers2004g=recode(wls$iz174rer,"c(-1,-3)=NA")
vgactothers2004s=recode(wls$dz174rer,"c(-1,-3)=NA")

2011:
vgactothers2011g=recode(wls$jz174rer,"c(-29,-3,-1)=NA")
vgactothers2011s=recode(wls$pz174rer,"c(-29,-3,-1)=NA")

Q: How often did you do vigorous physical activities that you do alone, such as jogging, swimming, biking, or going to the gym by yourself about 10 years ago? (2004, 2005; mail)
vgactalone10yrsago2004g=factor(recode(wls$iz172rer,"'often'='Often';'rarely'='Rarely';'never'='Never'; else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
vgactalone10yrsago2004s=factor(recode(wls$dz172rer,"'often'='Often';'rarely'='Rarely';'never'='Never'; else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do vigorous physical activities that you do alone – such as jogging, swimming, biking, or going to the gym by yourself – about 5 years ago? (2011; mail)
vgactalone5yrsago2011g=factor(recode(wls$jz172rer,"'often'='Often';'rarely'='Rarely';'never'='Never';el se=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
vgactalone5yrsago2011s=factor(recode(wls$pz172rer,"'often'='Often';'rarely'='Rarely';'never'='Never';e lse=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do vigorous physical activities that you do with others, such as playing team sports, jogging, swimming, biking, or going to the gym with friends about 10 years ago? (2004, 2005; mail)
vgactothers10yrsago2004g=factor(recode(wls$iz175rer,"'often'='Often';'rarely'='Rarely';'never'='Never' ;else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
vgactothers10yrsago2004s=factor(recode(wls$dz175rer,"'often'='Often';'rarely'='Rarely';'never'='Never' ;else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do vigorous physical activities that you do with others – such as jogging, swimming, biking, or going to the gym with friends or playing team sports – about 5 years ago? (2011; mail)
vgactothers5yrsago2011g=factor(recode(wls$jz175rer,"'often'='Often';'rarely'='Rarely';'never'='Never';e lse=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
vgactothers5yrsago2011s=factor(recode(wls$pz175rer,"'often'='Often';'rarely'='Rarely';'never'='Never'; else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do vigorous physical activities that do alone, such as jogging, swimming, biking, or going to the gym by yourself when you were about 35? (2004, 2005; mail)
vgactalonewhen352004g=factor(recode(wls$iz173rer,"'often'='Often';'rarely'='Rarely';'never'='Never';el se=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
vgactalonewhen352004s=factor(recode(wls$dz173rer,"'often'='Often';'rarely'='Rarely';'never'='Never';e

lse=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you do vigorous physical activities that you do with others such as playing team sports, jogging, swimming, biking, or going to the gym with friends when you were about 35? (2004, 2005; mail)
vgactotherswhen352004g=factor(recode(wls$iz176rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
vgactotherswhen352004s=factor(recode(wls$dz176rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: During the past year, about how many hours per week did you watch television? (2004, 2005; mail)
watchtvhrs2004g=recode(wls$iz108rer,"c(-3,-1)=NA")
watchtvhrs2004s=recode(wls$dz108rer,"c(-3,-1)=NA")

2011:
watchtvhrs2011g=recode(wls$jz108rer,"c(-29,-3,-1)=NA")
watchtvhrs2011s=recode(wls$pz108rer,"c(-29,-1,-3)=NA")

Q: How often did you watch television about 10 years ago? (2004, 2005; mail)
watchtv10yrsago2004g=factor(recode(wls$iz109rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
watchtv10yrsago2004s=factor(recode(wls$dz109rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you watch television when you were about 35? (2004, 2005; mail)
watchtvwhen352004g=factor(recode(wls$iz110rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
watchtvwhen352004s=factor(recode(wls$dz110rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: How often did you watch television about 5 years ago? (2011; mail)
watchtv5yrsago2011g=factor(recode(wls$jz109rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)
watchtv5yrsago2011s=factor(recode(wls$pz109rer,"'often'='Often';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Often"),ordered=TRUE)

Q: Is there a person in your family, including a spouse, with whom you can really share your very private feelings and concerns? (1993, 1994; mail)
familyshare1993g=factor(recode(wls$mv053rer,"'yes'='Yes';'no'='No';else=NA"))
familyshare1993s=factor(recode(wls$nv067rer,"'yes'='Yes';'no'='No';else=NA"))

2004, 2005:
familyshare2004g=factor(recode(wls$iv053rer,"'yes'='Yes';'no'='No';else=NA"))
familyshare2004s=factor(recode(wls$dv053rer,"'yes'='Yes';'no'='No';else=NA"))

2011:
familyshare2011g=factor(recode(wls$jv053rer,"'yes'='Yes';'no'='No';else=NA"))
familyshare2011s=factor(recode(wls$pv053rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Is there a friend outside your family with whom you can really share your very private feelings and concerns? (1993, 1994; mail)
nonfamilyshare1993g=factor(recode(wls$mv054rer,"'yes'='Yes';'no'='No';else=NA"))
nonfamilyshare1993s=factor(recode(wls$nv068rer,"'yes'='Yes';'no'='No';else=NA"))

2004, 2005:
nonfamilyshare2004g=factor(recode(wls$iv054rer,"'yes'='Yes';'no'='No';else=NA"))
nonfamilyshare2004s=factor(recode(wls$dv054rer,"'yes'='Yes';'no'='No';else=NA"))

2011:
nonfamilyshare2011g=factor(recode(wls$jv054rer,"'yes'='Yes';'no'='No';else=NA"))
nonfamilyshare2011s=factor(recode(wls$pv054rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you had trouble sleeping in the past 6 months? (1993, 1994; mail)
troublesleep1993g=factor(recode(wls$mx019rer,"'has symptom'='Yes';'no symptom'='No';else=NA"))
troublesleep1993s=factor(recode(wls$nx047rer,"'have not had'='No';'monthly/less often'='Yes';'about once a week'='Yes';'daily or more often'='Yes';else=NA"))

2004, 2005:
troublesleep2004g=factor(recode(wls$ix019rer,"'have not had'='No';'have had'='Yes';else=NA"))
troublesleep2004s=factor(recode(wls$dx019rer,"'have not had'='No';'have had'='Yes';else=NA"))

Q: How often have you had trouble sleeping? (2004, 2005; mail)
troublesleepamt2004g=factor(recode(wls$ix020rer,"'have not had'='No';'monthly or less often'='Monthlyorless';'about once a week'='Onceperweek';'daily or more often'='Dailyormore';else=NA"),levels=c("No","Monthlyorless","Onceperweek","Dailyormore"),ordered=TRUE)
troublesleepamt2004s=factor(recode(wls$dx020rer,"'have not had'='No';'monthly or less often'='Monthlyorless';'about once a week'='Onceperweek';'daily or more often'='Dailyormore';else=NA"),levels=c("No","Monthlyorless","Onceperweek","Dailyormore"),ordered=TRUE)

Q: On how many days during the past week did you sleep restlessly? (1993, 1994; mail)
sleeprestlessly1993g=as.numeric(as.character(factor(recode(wls$mu020rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))
sleeprestlessly1993s=as.numeric(as.character(factor(recode(wls$nu020rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))

2004, 2005:
sleeprestlessly2004g=as.numeric(as.character(factor(recode(wls$iu020rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))
sleeprestlessly2004s=as.numeric(as.character(factor(recode(wls$du020rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))

2011:

sleeprestlessly2011g=recode(wls$ju020rer,"c(-29,-27,-4,-3,-1)=NA")
sleeprestlessly2011s=recode(wls$pu020rer,"c(-29,-27,-4,-3,-1)=NA")

Q: On a typical weekday, how many hours of sleep do you usually get, rounded to the nearest half hour? (2011; mail)
hoursleepwkdy2011g=recode(wls$jxsl11re,"c(-29,-1)=NA")
hoursleepwkdy2011s=recode(wls$pxsl11re,"c(-29,-3)=NA")

Q: To what extent do you agree that you see yourself as someone who worries a lot? (1993, 1994; mail)
worryalot1993g=factor(recode(wls$mh029rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
worryalot1993s=factor(recode(wls$nh029rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

2004, 2005:
worryalot2004g=factor(recode(wls$ih029rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
worryalot2004s=factor(recode(wls$dh029rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

2011:
worryalot2011g=factor(recode(wls$jh029rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
worryalot2011s=factor(recode(wls$ph029rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

Q: To what extent do you agree that, in general, you feel confident and positive about yourself? (1993, 1994; mail)
confident1993g=factor(recode(wls$mn049rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree

strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
confident1993s=factor(recode(wls$np049rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

2004, 2005:
confident2004g=factor(recode(wls$in049rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
confident2004s=factor(recode(wls$dn049rer,"1='Agree strongly';2='Agree moderately';3='Agree slightly';4='Disagree slightly';5='Disagree moderately';6='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

2011:
confident2011g=factor(recode(wls$jn049rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
confident2011s=factor(recode(wls$pn049rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

Q: To what extent do you agree that family worries or problems distract you from your work? (1993, 1994; mail)
familyworries1993g=factor(recode(wls$my004rer,"'strongly agree'='Agree strongly';'agree'='Agree';'neithr agree/dsagree'='Neither';'disagree'='Disagree';'strongly disagree'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree","Neither","Agree","Agree strongly"),ordered=TRUE)
familyworries1993s=factor(recode(wls$ny004rer,"'strongly agree'='Agree strongly';'agree'='Agree';'neith agree/disagree'='Neither';'disagree'='Disagree';'strongly disagree'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree","Neither","Agree","Agree strongly"),ordered=TRUE)

2004, 2005:
familyworries2004g=factor(recode(wls$iy004rer,"'strongly agree'='Agree strongly';'agree'='Agree';'neither agree nor disagree'='Neither';'disagree'='Disagree';'strongly disagree'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree","Neither","Agree","Agree strongly"),ordered=TRUE)
familyworries2004s=factor(recode(wls$dy004rer,"'strongly agree'='Agree strongly';'agree'='Agree';'neither agree nor disagree'='Neither';'disagree'='Disagree';'strongly

disagree'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree","Neither","Agree","Agree strongly"),ordered=TRUE)

Q: To what extent do you agree that job worries or problems distract you when you are at home? (2004, 2005; mail)
jobworries2004g=factor(recode(wls$ig309rer,"'strongly agree'='Agree strongly';'agree'='Agree';'neither agree nor disagree'='Neither';'disagree'='Disagree';'strongly disagree'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree","Neither","Agree","Agree strongly"),ordered=TRUE)
jobworries2004s=factor(recode(wls$dg309rer,"'strongly agree'='Agree strongly';'agree'='Agree';'neither agree nor disagree'='Neither';'disagree'='Disagree';'strongly disagree'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree","Neither","Agree","Agree strongly"),ordered=TRUE)

Q: On how many days during the past week did you feel fearful? (1993, 1994; mail)
pastweekfearful1993g=as.numeric(as.character(factor(recode(wls$mu019rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))
pastweekfearful1993s=as.numeric(as.character(factor(recode(wls$nu019rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))

2004, 2005:
pastweekfearful2004g=as.numeric(as.character(factor(recode(wls$iu019rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))
pastweekfearful2004s=as.numeric(as.character(factor(recode(wls$du019rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))

2011:
pastweekfearful2011g=recode(wls$ju019rer,"c(-29,-27,-4,-3,-1)=NA")
pastweekfearful2011s=recode(wls$pu019rer,"c(-29,-27,-4,-3,-1)=NA")

Q: Summary score for Speilberger Anger Index. (2004, 2005; mail)
sumangerindex2004g=recode(wls$iua34rec,"-2=NA")
sumangerindex2004s=recode(wls$dua34rec,"-2=NA")

2011:
sumangerindex2011g=recode(wls$jua34rec,"c(-27,-2)=NA")
sumangerindex2011s=recode(wls$pua34rec,"c(-27,-2)=NA")

Q: Summary score for Hostility Index. (2004, 2005; mail)
sumhostilityindex2004g=recode(wls$iu026rec,"-2=NA")
sumhostilityindex2004s=recode(wls$du026rec,"-2=NA")

2011:

sumhostilityindex2011g=recode(wls$ju026rec,"c(-27,-2)=NA")
sumhostilityindex2011s=recode(wls$pu026rec,"c(-27,-2)=NA")

Q: Summary score for Speilberger Anxiety Index. (2004, 2005; mail)
sumanxietyindex2004g=recode(wls$iua33rec,"-2=NA")
sumanxietyindex2004s=recode(wls$dua33rec,"-2=NA")

2011:
sumanxietyindex2011g=recode(wls$jua33rec,"c(-27,-2)=NA")
sumanxietyindex2011s=recode(wls$pua33rec,"c(-27,-2)=NA")

Q: Summary score for Psychological Well-Being, mean imputed for missing components. (1993, 1994; phone)
sumwellbeing1993g=recode(wls$rn014rei,"c(-3,-2)=NA")
sumwellbeing1993s=recode(wls$sn014rei,"c(-3,-2)=NA")

Q: Summary score for psychological distress/depression – modified CES-D. (1993, 1994; mail)
sumdepressionindex1993g=recode(wls$mu001rec,"-3=NA")
sumdepressionindex1993s=recode(wls$nu001rec,"-3=NA")

2004, 2005:
sumdepressionindex2004g=recode(wls$iu001rec,"-2=NA")
sumdepressionindex2004s=recode(wls$du001rec,"-2=NA")

2011:
sumdepressionindex2011g=recode(wls$ju001rec,"c(-27,-2)=NA")
sumdepressionindex2011s=recode(wls$pu001rec,"c(-27,-2)=NA")

Q: On how many days during the past week did you feel depressed? (1993, 1994; mail)
depresseddays1993g=as.numeric(as.character(factor(recode(wls$mu013rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))
depresseddays1993s=as.numeric(as.character(factor(recode(wls$nu013rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))

2004, 2005:
depresseddays2004g=as.numeric(as.character(factor(recode(wls$iu013rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))
depresseddays2004s=as.numeric(as.character(factor(recode(wls$du013rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))

2011:
depresseddays2011g=recode(wls$ju013rer,"c(-29,-4,-27,-3)=NA")
depresseddays2011s=recode(wls$pu013rer,"c(-3,-1,-27,-29)=NA")

Q: During the last month, on how many days did you drink any alcoholic beverages, such as beer,

wine, liquor, or mixed alcoholic drinks? (1993, 1994; phone)
alcoholdays1993g=recode(wls$ru026re,"c(-3,-2,-1)=NA")
alcoholdays1993s=recode(wls$su026re,"c(-3,-2,-1)=NA")

2004, 2005:
alcoholdays2004g=recode(wls$gu026re,"c(-5,-3,-2,-1)=NA")
alcoholdays2004s=recode(wls$cu026re,"c(-5,-3,-2,-1)=NA")

2011:
alcoholdays2011g=recode(wls$hu026re,"c(-30,-5,-3,-2,-1)=NA")
alcoholdays2011s=recode(wls$ku026re,"c(-30,-5,-3,-2,-1)=NA")

Q: What is the average number of drinks you had on the days you consumed any alcoholic beverages such as beer, wine, liquor, or mixed alcoholic drinks in the past month? (1993, 1994; phone)
alcoholdrinksday1993g=recode(wls$ru027re,"c(-3,-2,-1)=NA")
alcoholdrinksday1993s=recode(wls$su027re,"c(-3,-2,-1)=NA")

Q: About how many drinks did you have on average on days that you drank alcoholic beverages? 2004, 2005:
alcoholdrinksday2004g=recode(wls$gu027re,"c(-25,-24,-5,-4,-2,-1)=NA")
alcoholdrinksday2004s=recode(wls$cu027re,"c(-25,-24,-5,-4,-3,-2,-1)=NA")

2011:
alcoholdrinksday2011g=recode(wls$hu027re,"c(-30,-5,-2,-1)=NA")
alcoholdrinksday2011s=recode(wls$ku027re,"c(-30,-5,-2,-1)=NA")

Q: Number of alcoholic drinks respondent had in the last month. (1993, 1994; phone)
alcoholdrinkstotal1993g=recode(wls$ru028re,"c(-3,-2,-1)=NA")
alcoholdrinkstotal1993s=recode(wls$su028re,"c(-3,-2,-1)=NA")

　　　Q: How many drinks did you have in the last month? 2004, 2005:
alcoholdrinkstotal2004g=recode(wls$gu028re,"c(-5,-4,-3,-2,-1)=NA")
alcoholdrinkstotal2004s=recode(wls$cu028re,"c(-25,-24,-5,-4,-2)=NA")

2011:
alcoholdrinkstotal2011g=recode(wls$hu028re,"c(-30,-5,-2,-1)=NA")
alcoholdrinkstotal2011s=recode(wls$ku028re,"c(-30,-5,-2,-1)=NA")

Q: Number of times you had 5 or more drinks on the same occasion during the last month. (1993, 1994; phone)
alcohol5ormore1993g=recode(wls$ru029re,"c(-3,-2,-1)=NA")
alcohol5ormore1993s=recode(wls$su029re,"c(-3,-2,-1)=NA")

Q: In the past month, how many times did you have 5 or more drinks on the same occasion? 2004, 2005:
alcohol5ormore2004g=recode(wls$gu029re,"c(-5,-3,-2,-1)=NA")
alcohol5ormore2004s=recode(wls$cu029re,"c(-5,-3,-2,-1)=NA")

2011:
alcohol5ormore2011g=recode(wls$hu029re,"c(-30,-5,-4,-3,-2,-1)=NA")
alcohol5ormore2011s=recode(wls$ku029re,"c(-30,-5,-4,-3,-2,-1)=NA")

Q: To what extent do you agree that you have been able to create a lifestyle for yourself that is much to your liking? (1993, 1994; mail)
likelifestyle1993g=factor(recode(wls$mn017rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
likelifestyle1993s=factor(recode(wls$np017rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

2004, 2005:
likelifestyle2004g=factor(recode(wls$in017rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
likelifestyle2004s=factor(recode(wls$dn017rer,"1='Agree strongly';2='Agree moderately';3='Agree slightly';4='Disagree slightly';5='Disagree moderately';6='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

2011:
likelifestyle2011g=factor(recode(wls$jn017rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
likelifestyle2011s=factor(recode(wls$pn017rer,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

Q: To what extent do you see yourself as someone who is relaxed and handles stress well? (1993, 1994; phone)
handlestresswell1993g=factor(recode(wls$rh020re,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'nthr agre or dsagr'='Neither';'disagree slightly'='Disagree slightly';'disagr moderately'='Disagree moderately';'disagree strongly'='Disagree

strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Neither","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)
handlestresswell1993s=factor(recode(wls$sh020re,"'agree strongly'='Agree strongly';'agree moderately'='Agree moderately';'agree slightly'='Agree slightly';'nith agre nor dsagre'='Neither';'disagree slightly'='Disagree slightly';'disagree moderately'='Disagree moderately';'disagree strongly'='Disagree strongly';else=NA"),levels=c("Disagree strongly","Disagree moderately","Disagree slightly","Neither","Agree slightly","Agree moderately","Agree strongly"),ordered=TRUE)

Q: On how many days during the past week did you feel relaxed? (2004, 2005; mail)
pastweekrelaxed2004g=as.numeric(as.character(factor(recode(wls$iu047rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))
pastweekrelaxed2004s=as.numeric(as.character(factor(recode(wls$du047rer,"'zero days'='0';'one day'='1';'two days'='2';'three days'='3';'four days'='4';'five days'='5';'six days'='6';'seven days'='7';else=NA"))))

2011:
pastweekrelaxed2011g=recode(wls$ju047rer,"c(-29,-27,-4,-3,-1)=NA")
pastweekrelaxed2011s=recode(wls$pu047rer,"c(-29,-27,-4,-3,-1)=NA")

Q: Summary score for family stress spilling over to work, mean of valid items substituted for missing components. (1993, 1994; mail)
sumfamilystress1993g=recode(wls$my001rei,"-3=NA")
sumfamilystress1993s=recode(wls$ny001rei,"-3=NA")

Q: How often did you find your work stressful? (2004, 2005; phone)
workstressful2004g=factor(recode(wls$gg201jj,"'always'='Always';'often'='Often';'sometimes'='Sometimes';'hardly ever'='Hardly ever';'never'='Never';else=NA"),levels=c("Never","Hardly ever","Sometimes","Often","Always"),ordered=TRUE)
workstressful2004s=factor(recode(wls$cg201jj,"'always'='Always';'often'='Often';'sometimes'='Sometimes';'hardly ever'='Hardly ever';'never'='Never';else=NA"),levels=c("Never","Hardly ever","Sometimes","Often","Always"),ordered=TRUE)

Q: How often does or did Participant find their work for the selected employer stressful? 2011:
workstressful2011g=factor(recode(wls$hg201jj,"'always'='Always';'often'='Often';'sometimes'='Sometimes';'hardly ever'='Hardly ever';'never'='Never';else=NA"),levels=c("Never","Hardly ever","Sometimes","Often","Always"),ordered=TRUE)
workstressful2011s=factor(recode(wls$kg201jj,"'always'='Always';'often'='Often';'sometimes'='Sometimes';'hardly ever'='Hardly ever';'never'='Never';else=NA"),levels=c("Never","Hardly ever","Sometimes","Often","Always"),ordered=TRUE)

Q: Were you exposed to dangerous conditions in your work? (1993, 1994; phone)
workdangercond1993g=factor(recode(wls$rg054jjc,"'yes'='Yes';'no'='No';else=NA"))
workdangercond1993s=factor(recode(wls$sg054jj,"'yes'='Yes';'no'='No';else=NA"))

2004, 2005:

workdangercond2004g=factor(recode(wls$gg054jjc,"'yes'='Yes';'no'='No';else=NA"))
workdangercond2004s=factor(recode(wls$cg054jjc,"'yes'='Yes';'no'='No';else=NA"))

Q: Is or was Participant ever exposed to dangerous working conditions as part of their job with the selected employer? 2011:
workdangercond2011g=factor(recode(wls$hg054jjc,"'yes'='Yes';'no'='No';else=NA"))
workdangercond2011s=factor(recode(wls$kg054jjc,"'yes'='Yes';'no'='No';else=NA"))

Q: How frequently do you have to work under the pressure of time? (1993, 1994; phone)
worktimepressure1993g=factor(recode(wls$rg048jjc,"'always'='Always';'frequently'='Frequently';'some times'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes" ,"Frequently","Always"),ordered=TRUE)
worktimepressure1993s=factor(recode(wls$sg048jj,"'always'='Always';'frequently'='Frequently';'someti mes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes", "Frequently","Always"),ordered=TRUE)

2004, 2005:
worktimepressure2004g=factor(recode(wls$gg048jjc,"'always'='Always';'frequently'='Frequently';'som etimes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes ","Frequently","Always"),ordered=TRUE)
worktimepressure2004s=factor(recode(wls$cg048jjc,"'always'='Always';'frequently'='Frequently';'some times'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes" ,"Frequently","Always"),ordered=TRUE)

Q: How frequently does or did Participant have to work under the pressure of time for their job with the selected employer? 2011:
worktimepressure2011g=factor(recode(wls$hg048jjc,"'always'='Always';'frequently'='Frequently';'som etimes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes ","Frequently","Always"),ordered=TRUE)
worktimepressure2011s=factor(recode(wls$kg048jjc,"'always'='Always';'frequently'='Frequently';'some times'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes" ,"Frequently","Always"),ordered=TRUE)

Q: Do/did you have authority to hire or fire others? This is a Jencks Item. (1993, 1994; phone)
workhirefire1993g=factor(recode(wls$rg028jjf,"'yes'='Yes';'no'='No';else=NA"))
workhirefire1993s=factor(recode(wls$sg028jjc,"'yes'='Yes';'no'='No';else=NA"))

2004, 2005:
workhirefire2004g=factor(recode(wls$gg028jjf,"'yes'='Yes';'no'='No';else=NA"))
workhirefire2004s=factor(recode(wls$cg028jjf,"'yes'='Yes';'no'='No';else=NA"))

Q: While working for their selected employer, does or did Participant have authority to hire or fire others? 2011:
workhirefire2011g=factor(recode(wls$hg028jjf,"'yes'='Yes';'no'='No';else=NA"))
workhirefire2011s=factor(recode(wls$kg028jjf,"'yes'='Yes';'no'='No';else=NA"))

Q: How frequently does/did your job require lots of physical effort? (1993, 1994; phone)
workphyeffort1993g=factor(recode(wls$rg046jjc,"'always'='Always';'frequently'='Frequently';'sometimes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes","Frequently","Always"),ordered=TRUE)
workphyeffort1993s=factor(recode(wls$sg046jj,"'always'='Always';'frequently'='Frequently';'sometimes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes","Frequently","Always"),ordered=TRUE)

2004, 2005:
workphyeffort2004g=factor(recode(wls$gg046jjc,"'always'='Always';'frequently'='Frequently';'sometimes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes","Frequently","Always"),ordered=TRUE)
workphyeffort2004s=factor(recode(wls$cg046jjc,"'always'='Always';'frequently'='Frequently';'sometimes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes","Frequently","Always"),ordered=TRUE)

Q: How frequently does or did Participant's job with the selected employer require lots of physical effort? 2011:
workphyeffort2011g=factor(recode(wls$hg046jjc,"'always'='Always';'frequently'='Frequently';'sometimes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes","Frequently","Always"),ordered=TRUE)
workphyeffort2011s=factor(recode(wls$kg046jjc,"'always'='Always';'frequently'='Frequently';'sometimes'='Sometimes';'rarely'='Rarely';'never'='Never';else=NA"),levels=c("Never","Rarely","Sometimes","Frequently","Always"),ordered=TRUE)

Q: For your most recent job, how many hours in a typical week would you estimate that you used a computer? (2004, 2005; phone)
workhrscomp2004g=recode(wls$gg204jj,"c(-5,-4,-3,-2,-1)=NA")
workhrscomp2004s=recode(wls$cg204jj,"c(-5,-2,-1)=NA")

Q: Number of hours in a typical week Participant estimates they use or used a computer for their job with the selected employer. 2011:
workhrscomp2011g=recode(wls$hg204jj,"c(-30,-5,-2,-1)=NA")
workhrscomp2011s=recode(wls$kg204jj,"c(-30,-4,-3,-2,-1)=NA")

Q: In the past 12 months, were the costs of your doctor or health professional visits in an office, clinic, or health center, not including visits to mental health professionals, covered by insurance? (2004, 2005; mail)
seedoctorins2004g=factor(recode(wls$ixhi02re,"'fully'='Fully';'partly'='Partly';'not at all'='Not at all';else=NA"),levels=c("Not at all","Partly","Fully"),ordered=TRUE)
seedoctorins2004s=factor(recode(wls$dxhi02re,"'fully'='Fully';'partly'='Partly';'not at all'='Not at all';else=NA"),levels=c("Not at all","Partly","Fully"),ordered=TRUE)

Q: Self-reported total number of years of college completed. (1975, 1977; phone)
totalyrscollege1975g=recode(wls$edyrcm,"c(-3,-2,-1)=NA")
totalyrscollege1975s=recode(wls$xedyrcm,"c(-3,-2)=NA")

Q: Summary of total number of years of college completed. 1993, 1994:

totalyrscollege1993g=as.numeric(as.character(factor(recode(wls$rb002rec,"'less than one year'='0';'one year'='1';'two years'='2';'three years'='3';'four years'='4';'five years'='5';'six years'='6';'seven years'='7';'eight years'='8';'nine years'='9';'ten years'='10';'eleven years'='11';'twelve years'='12';'thirteen years'='13';'fourteen years'='14';'fifteen years'='15';'sixteen years'='16';'seventeen years'='17';'eighteen years'='18';else=NA"))))
totalyrscollege1993s=recode(wls$sb002rec,"c(-3,-2,-1)=NA")

Q: If you consider your current situation and compare it with all other people in America, where would you place yourself on a ladder representing where people stand, the top representing the people who are the best off and the bottom the people who are the worst off? (2004, 2005; mail)
compareAmerica2004g=recode(wls$ig301rer,"c(-4,-3)=NA")
compareAmerica2004s=recode(wls$dg301rer,"c(-4,-3,-2)=NA")

Q: If you consider your current situation and compare it with all other people in your community, where would you place yourself on a ladder representing where people stand, the top representing the people who have the highest standing in their community and the bottom the people with the lowest standing? (2004, 2005; mail)
comparecommunity2004g=recode(wls$ig302rer,"c(-4,-3)=NA")
comparecommunity2004s=recode(wls$dg302rer,"c(-4,-3,-2,-1)=NA")

Q: How close are you and your father? (1993, 1994; phone)
closetofather1993g=factor(recode(wls$re073fab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)
closetofather1993s=factor(recode(wls$se073fab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)

2004, 2005:
closetofather2004g=factor(recode(wls$ge073fab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)
closetofather2004s=factor(recode(wls$ce073fab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)

2011:
closetofather2011g=factor(recode(wls$he073fab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)
closetofather2011s=factor(recode(wls$ke073fab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)

Q: How close are you and your mother? (1993, 1994; phone)
closetomother1993g=factor(recode(wls$re061mab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)
closetomother1993s=factor(recode(wls$se064ma,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)

2004, 2005:
closetomother2004g=factor(recode(wls$ge061mab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)
closetomother2004s=factor(recode(wls$ce061mab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)

2011:
closetomother2011g=factor(recode(wls$he061mab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)
closetomother2011s=factor(recode(wls$ke061mab,"'very close'='Very close';'somewhat close'='Somewhat close';'not very close'='Not very close';'not at all close'='Not at all close';else=NA"),levels=c("Not at all close","Not very close","Somewhat close","Very close"),ordered=TRUE)

Q: Has a close friend ever died? (2004, 2005; mail)
closefrienddied2004g=factor(recode(wls$id001cre,"'yes'='Yes';'no'='No';else=NA"))
closefrienddied2004s=factor(recode(wls$dd001cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
closefrienddied2011g=factor(recode(wls$jd001cre,"'yes'='Yes';'no'='No';else=NA"))
closefrienddied2011s=factor(recode(wls$pd001cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have your parents ever drank or used drugs so much or so regularly it caused problems for the family? (2004, 2005; mail)
parentsdrugs2004g=factor(recode(wls$id002cre,"'yes'='Yes';'no'='No';else=NA"))
parentsdrugs2004s=factor(recode(wls$dd002cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a brother or sister ever treated you in a way that some would think of as physical abuse? (2004, 2005; mail)
siblingabuse2004g=factor(recode(wls$id003cre,"'yes'='Yes';'no'='No';else=NA"))
siblingabuse2004s=factor(recode(wls$dd003cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever experienced a life-threatening flood, fire, storm or some other disaster? (2004, 2005; mail)
expdisaster2004g=factor(recode(wls$id004cre,"'yes'='Yes';'no'='No';else=NA"))
expdisaster2004s=factor(recode(wls$dd004cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
expdisaster2011g=factor(recode(wls$jd004cre,"'yes'='Yes';'no'='No';else=NA"))
expdisaster2011s=factor(recode(wls$pd004cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Has one of your children or grandchildren ever served in war or combat? (2011; mail)
servedwarchild2011g=factor(recode(wls$jd050cre,"'yes'='Yes';'no'='No';else=NA"))
servedwarchild2011s=factor(recode(wls$pd050cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever served in war or combat? (2004, 2005; mail)
servedwar2004g=factor(recode(wls$id005cre,"'yes'='Yes';'no'='No';else=NA"))
servedwar2004s=factor(recode(wls$dd005cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever witnessed the severe injury or death of another person? (2004, 2005; mail)
witnessdeath2004g=factor(recode(wls$id006cre,"'yes'='Yes';'no'='No';else=NA"))
witnessdeath2004s=factor(recode(wls$dd006cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
witnessdeath2011g=factor(recode(wls$jd006cre,"'yes'='Yes';'no'='No';else=NA"))
witnessdeath2011s=factor(recode(wls$pd006cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever gone deeply into debt or suffered substantial financial loss? (2004, 2005; mail)
deepdebt2004g=factor(recode(wls$id007cre,"'yes'='Yes';'no'='No';else=NA"))
deepdebt2004s=factor(recode(wls$dd007cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
deepdebt2011g=factor(recode(wls$jd007cre,"'yes'='Yes';'no'='No';else=NA"))
deepdebt2011s=factor(recode(wls$pd007cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Has one of your children ever gone deeply into debt or suffered substantial financial loss? (2011; mail)
deepdebtchild2011g=factor(recode(wls$jd070cre,"'yes'='Yes';'no'='No';else=NA"))
deepdebtchild2011s=factor(recode(wls$pd070cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever had serious legal difficulties? (2004, 2005; mail)
legalproblems2004g=factor(recode(wls$id008cre,"'yes'='Yes';'no'='No';else=NA"))
legalproblems2004s=factor(recode(wls$dd008cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
legalproblems2011g=factor(recode(wls$jd008cre,"'yes'='Yes';'no'='No';else=NA"))
legalproblems2011s=factor(recode(wls$pd008cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever been in jail or prison? (2004, 2005; mail)

jailed2004g=factor(recode(wls$id009cre,"'yes'='Yes';'no'='No';else=NA"))
jailed2004s=factor(recode(wls$dd009cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
jailed2011g=factor(recode(wls$jd009cre,"'yes'='Yes';'no'='No';else=NA"))
jailed2011s=factor(recode(wls$pd009cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Has a spouse or partner ever treated you in a way that some would think of as physical abuse? (2004, 2005; mail)
spouseabuse2004g=factor(recode(wls$id010cre,"'yes'='Yes';'no'='No';else=NA"))
spouseabuse2004s=factor(recode(wls$dd010cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
spouseabuse2011g=factor(recode(wls$jd010cre,"'yes'='Yes';'no'='No';else=NA"))
spouseabuse2011s=factor(recode(wls$pd010cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have your kids ever been divorced? (2004, 2005; mail)
childdivorced2004g=factor(recode(wls$id011cre,"'yes'='Yes';'no'='No';else=NA"))
childdivorced2004s=factor(recode(wls$dd011cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Has one of your children ever been divorced? 2011:
childdivorced2011g=factor(recode(wls$jd011cre,"'yes'='Yes';'no'='No';else=NA"))
childdivorced2011s=factor(recode(wls$pd011cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Has one of your children ever had a life-threatening illness or accident? (2004, 2005; mail)
childaccident2004g=factor(recode(wls$id012cre,"'yes'='Yes';'no'='No';else=NA"))
childaccident2004s=factor(recode(wls$dd012cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
childaccident2011g=factor(recode(wls$jd012cre,"'yes'='Yes';'no'='No';else=NA"))
childaccident2011s=factor(recode(wls$pd012cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Has one of your grandchildren ever had a life-threatening illness or accident? (2011; mail)
grandchildaccident2011g=factor(recode(wls$jd120cre,"'yes'='Yes';'no'='No';else=NA"))
grandchildaccident2011s=factor(recode(wls$pd120cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have any of your adult children ever moved back into your home? (2004, 2005; mail)
childmovedhome2004g=factor(recode(wls$id013cre,"'yes'='Yes';'no'='No';else=NA"))
childmovedhome2004s=factor(recode(wls$dd013cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
childmovedhome2011g=factor(recode(wls$jd013cre,"'yes'='Yes';'no'='No';else=NA"))
childmovedhome2011s=factor(recode(wls$pd013cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever had increased responsibility for the care of your grandchildren? (2004, 2005; mail)
caregrandchild2004g=factor(recode(wls$id014cre,"'yes'='Yes';'no'='No';else=NA"))
caregrandchild2004s=factor(recode(wls$dd014cre,"'yes'='Yes';'no'='No';else=NA"))

2011:

caregrandchild2011g=factor(recode(wls$jd014cre,"'yes'='Yes';'no'='No';else=NA"))
caregrandchild2011s=factor(recode(wls$pd014cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Has an aging parent or in-law ever moved into your home? (2004, 2005; mail)
parentmovedin2004g=factor(recode(wls$id015cre,"'yes'='Yes';'no'='No';else=NA"))
parentmovedin2004s=factor(recode(wls$dd015cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
parentmovedin2011g=factor(recode(wls$jd015cre,"'yes'='Yes';'no'='No';else=NA"))
parentmovedin2011s=factor(recode(wls$pd015cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever placed your aging spouse, in-law or parent into a nursing home? (2004, 2005; mail)
placednursinghome2004g=factor(recode(wls$id016cre,"'yes'='Yes';'no'='No';else=NA"))
placednursinghome2004s=factor(recode(wls$dd016cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
placednursinghome2011g=factor(recode(wls$jd016cre,"'yes'='Yes';'no'='No';else=NA"))
placednursinghome2011s=factor(recode(wls$pd016cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever seriously thought about taking your own life? (2004, 2005; mail)
takingownlife2004g=factor(recode(wls$id017cre,"'yes'='Yes';'no'='No';else=NA"))
takingownlife2004s=factor(recode(wls$dd017cre,"'yes'='Yes';'no'='No';else=NA"))

2011:
takingownlife2011g=factor(recode(wls$jd017cre,"'yes'='Yes';'no'='No';else=NA"))
takingownlife2011s=factor(recode(wls$pd017cre,"'yes'='Yes';'no'='No';else=NA"))

Q: Generally, when you experience a difficult or stressful event, how often do you turn to work or other activities to take your mind off things? (2004, 2005; mail)
stressturntowork2004g=as.numeric(as.character(factor(recode(wls$id101rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressturntowork2004s=as.numeric(as.character(factor(recode(wls$dd101rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stressturntowork2011g=as.numeric(as.character(factor(recode(wls$jd101rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressturntowork2011s=as.numeric(as.character(factor(recode(wls$pd101rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you concentrate your efforts on doing something about the situation you're in? (2004, 2005; mail)
stressconcefforts2004g=as.numeric(as.character(factor(recode(wls$id102rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressconcefforts2004s=as.numeric(as.character(factor(recode(wls$dd102rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a

lot'='4';else=NA"))))

2011:
stressconcefforts2011g=as.numeric(as.character(factor(recode(wls$jd102rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressconcefforts2011s=as.numeric(as.character(factor(recode(wls$pd102rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you say to yourself 'this isn't real'? (2004, 2005; mail)
stressnotreal2004g=as.numeric(as.character(factor(recode(wls$id103rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressnotreal2004s=as.numeric(as.character(factor(recode(wls$dd103rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stressnotreal2011g=as.numeric(as.character(factor(recode(wls$jd103rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressnotreal2011s=as.numeric(as.character(factor(recode(wls$pd103rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you give up trying to deal with it? (2004, 2005; mail)
stressgiveup2004g=as.numeric(as.character(factor(recode(wls$id104rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressgiveup2004s=as.numeric(as.character(factor(recode(wls$dd104rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stressgiveup2011g=as.numeric(as.character(factor(recode(wls$jd104rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressgiveup2011s=as.numeric(as.character(factor(recode(wls$pd104rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you say things to let your unpleasant feelings escape? (2004, 2005; mail)
stressnegfeelings2004g=as.numeric(as.character(factor(recode(wls$id107rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressnegfeelings2004s=as.numeric(as.character(factor(recode(wls$dd107rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:

stressnegfeelings2011g=as.numeric(as.character(factor(recode(wls$jd107rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressnegfeelings2011s=as.numeric(as.character(factor(recode(wls$pd107rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you try to see it in a different light or to make it seem more positive? (2004, 2005; mail)
stressmakepos2004g=as.numeric(as.character(factor(recode(wls$id108rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressmakepos2004s=as.numeric(as.character(factor(recode(wls$dd108rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stressmakepos2011g=as.numeric(as.character(factor(recode(wls$jd108rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressmakepos2011s=as.numeric(as.character(factor(recode(wls$pd108rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you criticize yourself? (2004, 2005; mail)
stresscriticizeself2004g=as.numeric(as.character(factor(recode(wls$id109rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stresscriticizeself2004s=as.numeric(as.character(factor(recode(wls$dd109rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stresscriticizeself2011g=as.numeric(as.character(factor(recode(wls$jd109rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stresscriticizeself2011s=as.numeric(as.character(factor(recode(wls$pd109rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you do something to think about it less, such as going to the movies, watching TV, reading, daydreaming, sleeping or shopping? (2004, 2005; mail)
stressthinkless2004g=as.numeric(as.character(factor(recode(wls$id113rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressthinkless2004s=as.numeric(as.character(factor(recode(wls$dd113rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:

stressthinkless2011g=as.numeric(as.character(factor(recode(wls$jd113rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressthinkless2011s=as.numeric(as.character(factor(recode(wls$pd113rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you express your negative feelings? (2004, 2005; mail)
stressexpress2004g=as.numeric(as.character(factor(recode(wls$id115rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressexpress2004s=as.numeric(as.character(factor(recode(wls$dd115rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stressexpress2011g=as.numeric(as.character(factor(recode(wls$jd115rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressexpress2011s=as.numeric(as.character(factor(recode(wls$pd115rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you learn to live with it? (2004, 2005; mail)
stresslivewithit2004g=as.numeric(as.character(factor(recode(wls$id116rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stresslivewithit2004s=as.numeric(as.character(factor(recode(wls$dd116rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stresslivewithit2011g=as.numeric(as.character(factor(recode(wls$jd116rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stresslivewithit2011s=as.numeric(as.character(factor(recode(wls$pd116rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you think hard about what steps to take? (2004, 2005; mail)
stressthinkhard2004g=as.numeric(as.character(factor(recode(wls$id117rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressthinkhard2004s=as.numeric(as.character(factor(recode(wls$dd117rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stressthinkhard2011g=as.numeric(as.character(factor(recode(wls$jd117rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressthinkhard2011s=as.numeric(as.character(factor(recode(wls$pd117rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Generally, when you experience a difficult or stressful event, how often do you blame yourself for things that happened? (2004, 2005; mail)
stressblameself2004g=as.numeric(as.character(factor(recode(wls$id118rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))
stressblameself2004s=as.numeric(as.character(factor(recode(wls$dd118rer,"'i usually do not do this at all'='1';'i usually do this a little bit'='2';'i usually do this a medium amount'='3';'i usually do this a lot'='4';else=NA"))))

2011:
stressblameself2011g=as.numeric(as.character(factor(recode(wls$jd118rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))
stressblameself2011s=as.numeric(as.character(factor(recode(wls$pd118rer,"'not at all'='1';'a little bit'='2';'a medium amount'='3';'a lot'='4';else=NA"))))

Q: Summary score for extraversion, mean of valid items substituted for missing items. (1993, 1994; mail)
extraversion1993g=recode(wls$mh001rei,"c(-3)=NA")
extraversion1993s=recode(wls$nh001rei,"c(-3)=NA")

2004, 2005:
extraversion2004g=recode(wls$ih001rei,"c(-3)=NA")
extraversion2004s=recode(wls$dh001rei,"c(-3)=NA")

2011:
extraversion2011g=recode(wls$jh001rei,"c(-27,-2)=NA")
extraversion2011s=recode(wls$ph001rei,"c(-27,-2)=NA")

Q: Summary score for openness, mean imputed for missing components. (1993, 1994; mail)
openness1993g=recode(wls$mh032rei,"c(-3)=NA")
openness1993s=recode(wls$nh032rei,"c(-3)=NA")

2004, 2005:
openness2004g=recode(wls$ih032rei,"c(-3)=NA")
openness2004s=recode(wls$dh032rei,"c(-3)=NA")

2011:
openness2011g=recode(wls$jh032rei,"c(-27,-2)=NA")
openness2011s=recode(wls$ph032rei,"c(-27,-2)=NA")

Q: Summary score for neuroticism, mean imputed for missing components. (1993, 1994; mail)
neuroticism1993g=recode(wls$mh025rei,"c(-3)=NA")
neuroticism1993s=recode(wls$nh025rei,"c(-3)=NA")

2004, 2005:
neuroticism2004g=recode(wls$ih025rei,"c(-3)=NA")
neuroticism2004s=recode(wls$dh025rei,"c(-3)=NA")

2011:
neuroticism2011g=recode(wls$jh025rei,"c(-27,-2)=NA")
neuroticism2011s=recode(wls$ph025rei,"c(-27,-2)=NA")

Q: Summary score for conscientiousness, mean imputed for missing components. (1993, 1994; mail)
conscientiousness1993g=recode(wls$mh017rei,"c(-3)=NA")
conscientiousness1993s=recode(wls$nh017rei,"c(-3)=NA")

2004, 2005:
conscientiousness2004g=recode(wls$ih017rei,"c(-3)=NA")
conscientiousness2004s=recode(wls$dh017rei,"c(-3)=NA")

2011:
conscientiousness2011g=recode(wls$jh017rei,"c(-27,-2)=NA")
conscientiousness2011s=recode(wls$ph017rei,"c(-27,-2)=NA")

Q: Summary score for agreeableness, mean imputed for missing components. (1993, 1994; mail)
agreeableness1993g=recode(wls$mh009rei,"c(-3)=NA")
agreeableness1993s=recode(wls$nh009rei,"c(-3)=NA")

2004, 2005:
agreeableness2004g=recode(wls$ih009rei,"c(-3)=NA")
agreeableness2004s=recode(wls$dh009rei,"c(-3)=NA")

2011:
agreeableness2011g=recode(wls$jh009rei,"c(-27,-2)=NA")
agreeableness2011s=recode(wls$ph009rei,"c(-27,-2)=NA")

Q: How old were you when you first started menstruating? (2004, 2005; mail)
menstagefirst2004g=recode(wls$in190rer,"c(-3,-2,-1)=NA")
menstagefirst2004s=recode(wls$dn190rer,"c(-3,-2,-1)=NA")

Q: Have you had a menstrual period in the last 12 months? (1993, 1994; mail)
menstlast12mo1993g=factor(recode(wls$mn119rer,"'yes'='Yes';'no'='No';else=NA"))
menstlast12mo1993s=factor(recode(wls$nn008rer,"'yes'='Yes';'no'='No';else=NA"))

Q: If you have not menstruated in the past 12 months, what age were you when you had your last period? (1993, 1994; mail)
menstagelast1993g=recode(wls$mn120rer,"c(-3,-2)=NA")
menstagelast1993s=recode(wls$nn010rer,"c(-3,-2,-1)=NA")

Q: How old were you when you had your last period? (2004, 2005; mail)
menstagelast2004g=recode(wls$in120rer,"c(-3,-2,-1)=NA")
menstagelast2004s=recode(wls$dn120rer,"c(-3,-2,-1)=NA")

Q: Have you gone or are you currently going through menopause? (1993, 1994; mail)
meno1993g=factor(recode(wls$mn121rer,"'yes'='Yes';'no'='No';else=NA"))
meno1993s=factor(recode(wls$nn124rer,"'no'='No';'yes, currently going'='Yes';'yes, gone through'='Yes'; else=NA"))

Q: Have you ever taken hormones or birth control pills for menopausal or aging symptoms? (1993, 1994; mail)
menohormones1993g=factor(recode(wls$mn125rer,"'yes'='Yes';'no'='No';else=NA"))
menohormones1993s=factor(recode(wls$nn047rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever taken hormones for menopausal or aging symptoms? 2004, 2005:
menohormones2004g=factor(recode(wls$in125rer,"'yes'='Yes';'no'='No';else=NA"))
menohormones2004s=factor(recode(wls$dn125rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Before you started taking hormones for menopausal or aging symptoms, had you already stopped having menstrual periods? (2004, 2005; mail)
menststopb4hormones2004g=factor(recode(wls$in209rer,"'yes'='Yes';'no'='No';else=NA"))
menststopb4hormones2004s=factor(recode(wls$dn209rer,"'yes'='Yes';'no'='No';else=NA"))

Q: At what age did the first hormone drug spell for menopause or aging symptoms begin? (1993, 1994; mail)
menohormonesagebegin1993g=recode(wls$mn147rec,"c(-3,-2)=NA")
menohormonesagebegin1993s=recode(wls$nn068rec,"c(-3,-2,-1)=NA")

Q: What kind of hormone drug did you take for the first drug spell for menopause or aging symptoms? (1993, 1994; mail)
menohormonesfirstone1993g=factor(recode(wls$mn150rec,"'estrogen only'='Estrogen only';'progestin only'='Progestin only';'estrogen & progestin'='Estrogen and Progestin';'estrogen & androgen'='Estrogen and Androgen';else=NA"),levels=c("Estrogen only","Progestin only","Estrogen and Progestin","Estrogen and Androgen"))
menohormonesfirstone1993s=factor(recode(wls$nn071rec,"'estrogen only'='Estrogen only';'progesterone only'='Progestin only';'estrogn/progesterone'='Estrogen and Progestin';'estrogen & androgen'='Estrogen and Androgen';else=NA"),levels=c("Estrogen only","Progestin only","Estrogen and Progestin","Estrogen and Androgen"))

Q: Are you still taking the hormone drug from the first drug spell for menopause or aging symptoms? (1993, 1994; mail)
menohormonesstilltaking1993g=factor(recode(wls$mn149rec,"'no longer tking drg'='No';'still taking drug'='Yes';else=NA"))
menohormonesstilltaking1993s=factor(recode(wls$nn070rec,"'no longer taking'='No';'still taking'='Yes';else=NA"))

Q: At what age did the first hormone drug spell for menopause or aging symptoms stop, if stopped? (1993, 1994; mail)
menofirsthormonesagestop1993g=recode(wls$mn148rec,"c(-3,-2)=NA")
menofirsthormonesagestop1993s=recode(wls$nn069rec,"c(-3,-2)=NA")

Q: Have you ever stopped taking hormones for menopausal or aging symptoms? (2004, 2005; mail)
menohormoneseverstop2004g=factor(recode(wls$in222rer,"'yes'='Yes';'no'='No';else=NA"))
menohormoneseverstop2004s=factor(recode(wls$dn222rer,"'yes'='Yes';'no'='No';else=NA"))

Q: At what age did you stop taking hormones for menopausal or aging symptoms? (2004, 2005; mail)

menohormonesagestop2004g=recode(wls$in223rer,"c(-3,-2,-1)=NA")
menohormonesagestop2004s=recode(wls$dn223rer,"c(-3,-2,-1)=NA")

Q: At what age did you stop taking Estrogen and Progesterone for menopausal or aging symptoms? (2004, 2005; mail)
menostopestprog2004g=recode(wls$in134rer,"c(-3,-2,-1)=NA")
menostopestprog2004s=recode(wls$dn134rer,"c(-3,-2,-1)=NA")

Q: At what age did you stop taking Testosterone for menopausal or aging symptoms? (2004, 2005; mail)
menostoptestos2004g=recode(wls$in207rer,"c(-3,-2)=NA")
menostoptestos2004s=recode(wls$dn207rer,"c(-3,-2,-1)=NA")

Q: When you stopped taking hormones, did you experience any menopausal or aging symptoms? (2004, 2005; mail)
menostophormonesymptoms2004g=factor(recode(wls$in235rer,"'yes'='Yes';'no'='No';else=NA"))
menostophormonesymptoms2004s=factor(recode(wls$dn235rer,"'yes'='Yes';'no'='No';else=NA"))

Q: Have you ever had surgery to remove your uterus and/or ovaries? (1993, 1994; mail)
removeuterusovariesever1993g=factor(recode(wls$mn122rer,"'yes'='Yes';'no'='No';else=NA"))
removeuterusovariesever1993s=factor(recode(wls$nn016rer,"'yes'='Yes';'no'='No';else=NA"))

2004, 2005:
removeuterusovariesever2004g=factor(recode(wls$in122rer,"'yes'='Yes';'no'='No';else=NA"))
removeuterusovariesever2004s=factor(recode(wls$dn122rer,"'yes'='Yes';'no'='No';else=NA"))

Q: How old were you when you had surgery to remove your uterus and/or ovaries? (1993, 1994; mail)
removeuterusovariesage1993g=recode(wls$mn124rer,"c(-3,-2)=NA")
removeuterusovariesage1993s=recode(wls$nn018rer,"c(-3,-2,-1)=NA")

Q: Have you ever had surgery to remove your uterus? (2004, 2005; mail)
removeuterusever2004g=factor(recode(wls$in123cre,"'yes'='Yes';'no'='No';else=NA"))
removeuterusever2004s=factor(recode(wls$dn123cre,"'yes'='Yes';'no'='No';else=NA"))

Q: At what age did you have surgery to remove your uterus? (2004, 2005; mail)
removeuterusage2004g=recode(wls$in124are,"c(-3,-2,-1)=NA")
removeuterusage2004s=recode(wls$dn124are,"c(-3,-2)=NA")

Q: Have you ever had surgery to remove one of your ovaries? (2004, 2005; mail)
removeoneovaryever2004g=factor(recode(wls$in123bre,"'yes'='Yes';'no'='No';else=NA"))
removeoneovaryever2004s=factor(recode(wls$dn123bre,"'yes'='Yes';'no'='No';else=NA"))

Q: At what age did you have surgery to remove one of your ovaries? (2004, 2005; mail)
removeoneovaryage2004g=recode(wls$in124cre,"c(-3,-2,-1)=NA")
removeoneovaryage2004s=recode(wls$dn124cre,"c(-3,-2)=NA")

Q: Have you ever had surgery to remove both of your ovaries? (2004, 2005; mail)

removebothovariesever2004g=factor(recode(wls$in123are,"'yes'='Yes';'no'='No';else=NA"))
removebothovariesever2004s=factor(recode(wls$dn123are,"'yes'='Yes';'no'='No';else=NA"))

Q: At what age did you have surgery to remove both of your ovaries? (2004, 2005; mail)
removebothovariesage2004g=recode(wls$in124bre,"c(-3,-2,-1)=NA")
removebothovariesage2004s=recode(wls$dn124bre,"c(-3,-2)=NA")