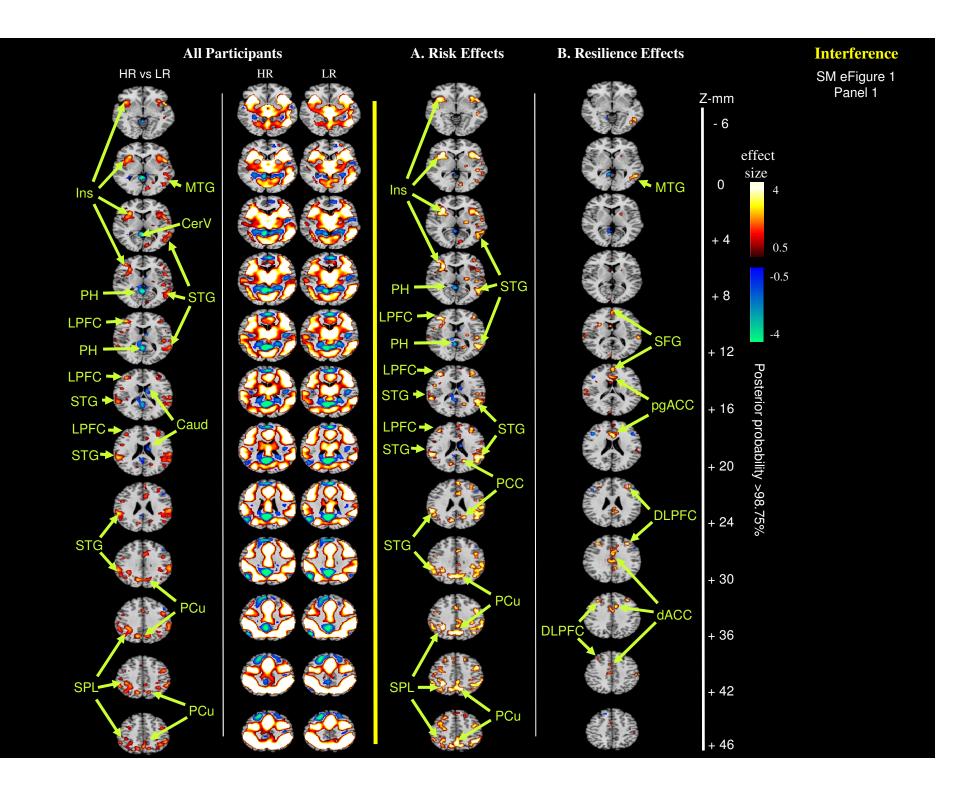
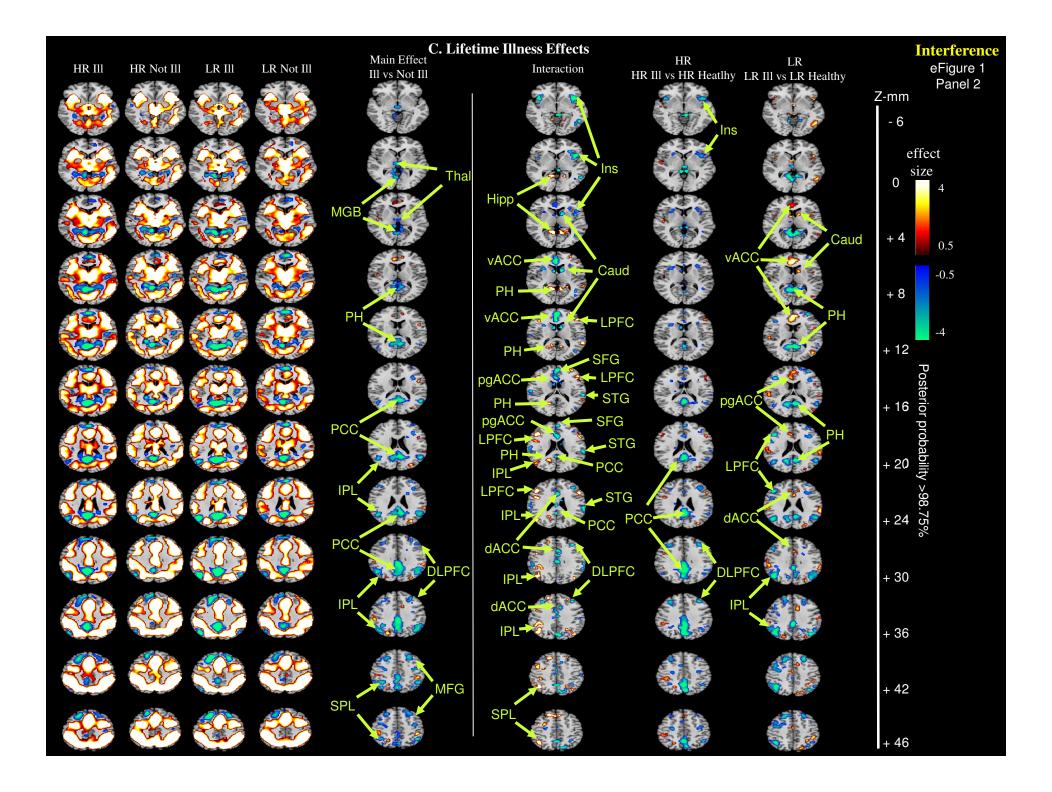
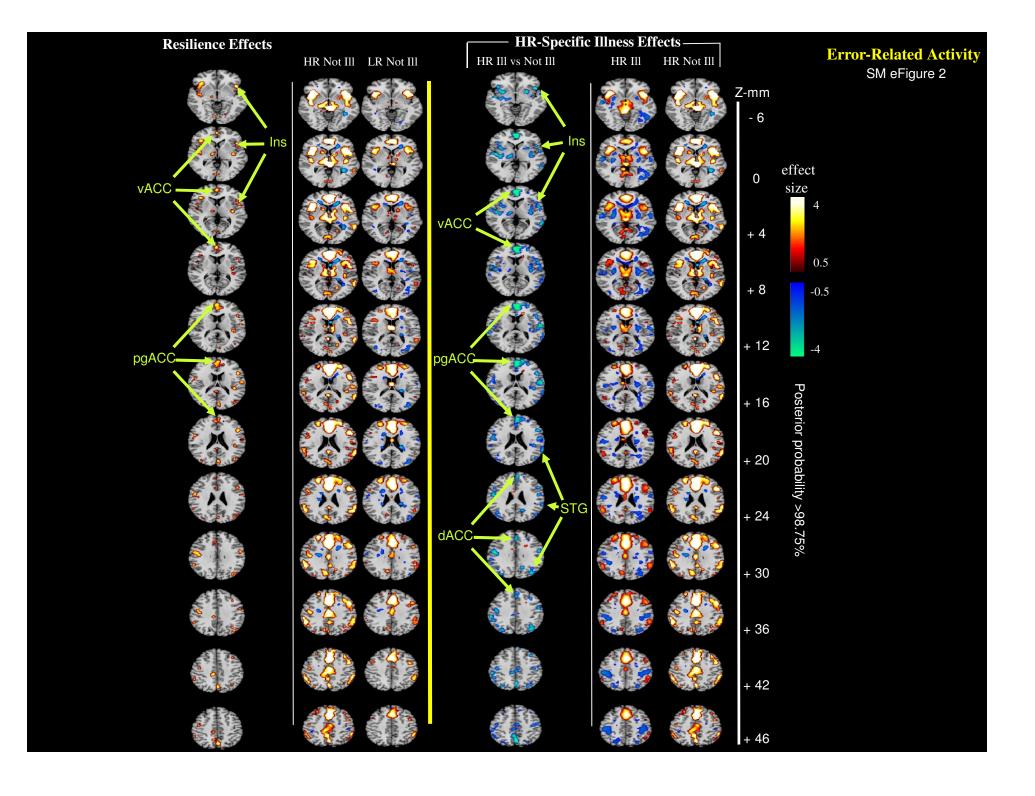
# All Slices Acquired for All Participants (N=143, 83 HR, 60 LR)

Risk, Resilience, and Illness Effects
Covarying for Age, Sex, and Interference Scores





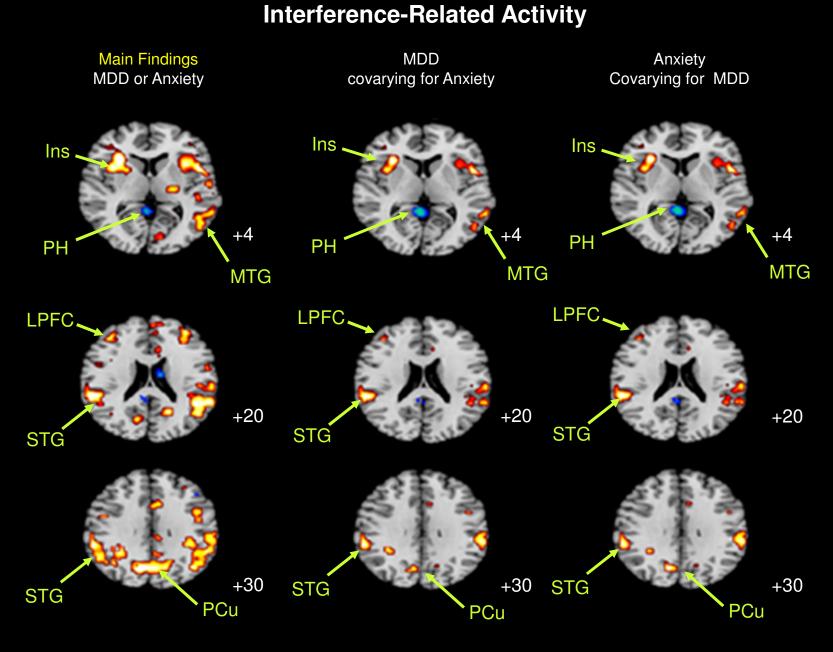


### ASSESSING EFFECTS FOR MDD AND ANXIETY DISORDER SEPARATELY

- (1) MDD: Covarying for 62 Participants (44 HR, 18 LR) Who Had a Lifetime History of Anxiety Disorder
- (2) Anxiety: Covarying for 59 Participants (47 HR, 12 LR)
  Who Had a Lifetime History of MDD

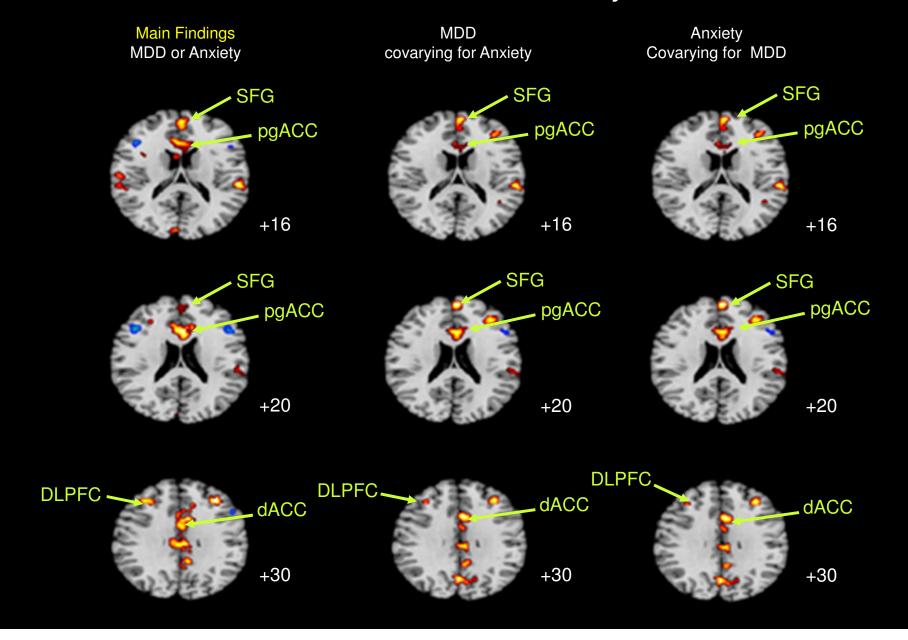
Risk, Resilience, and Illness Effects
Identified Using Regression Analyses
(covarying for age, sex, and interference effects)

## RISK EFFECTS



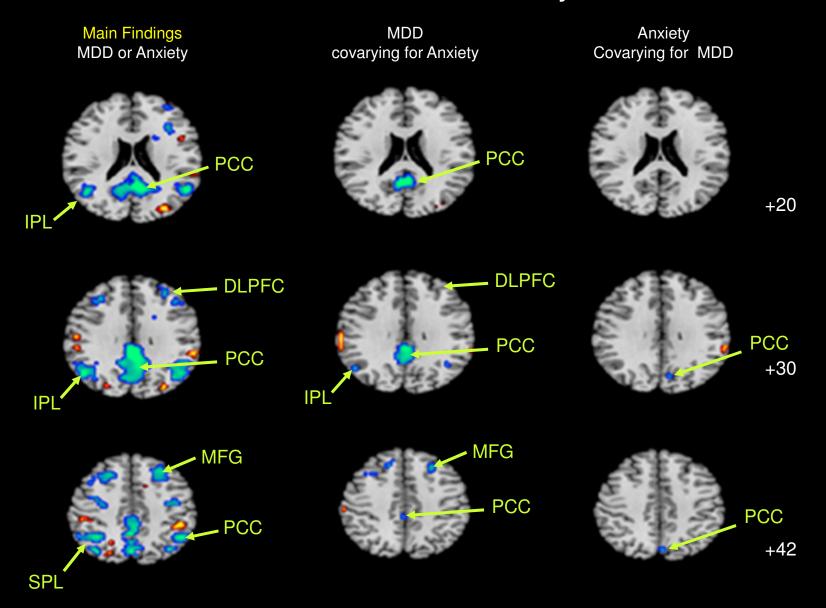
### **RESILIENCE EFFECTS**

### **Interference-Related Activity**



### **LIFETIME ILLNESS EFFECTS**

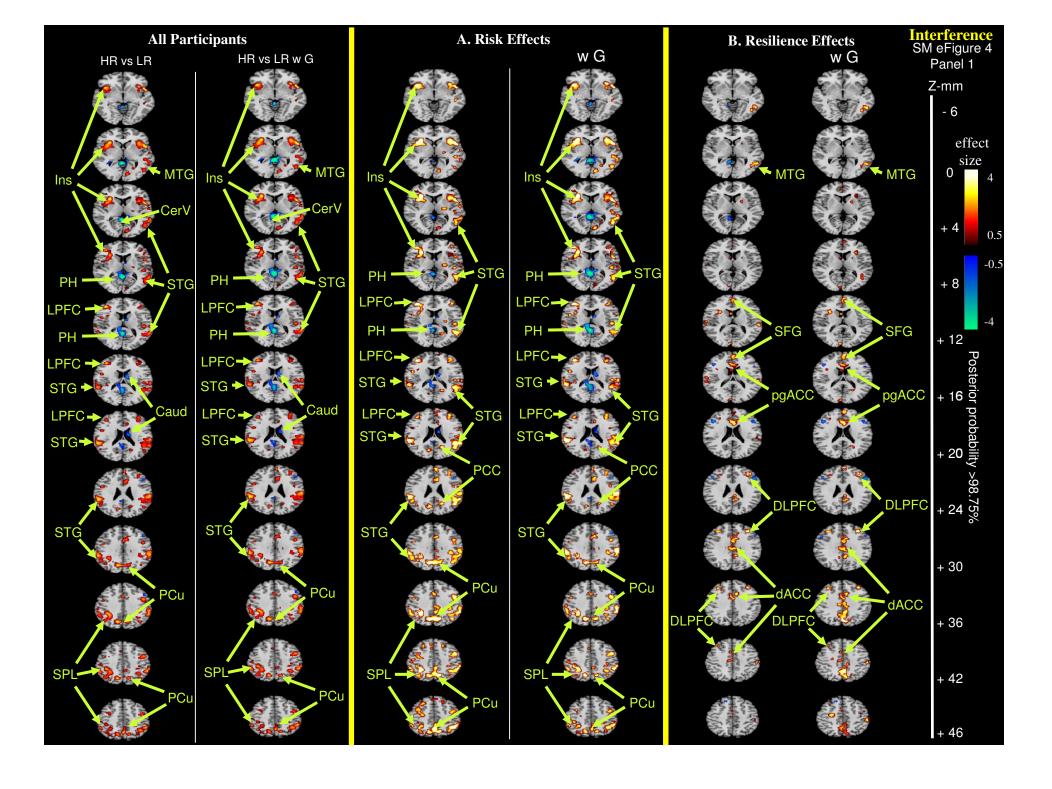
### **Interference-Related Activity**

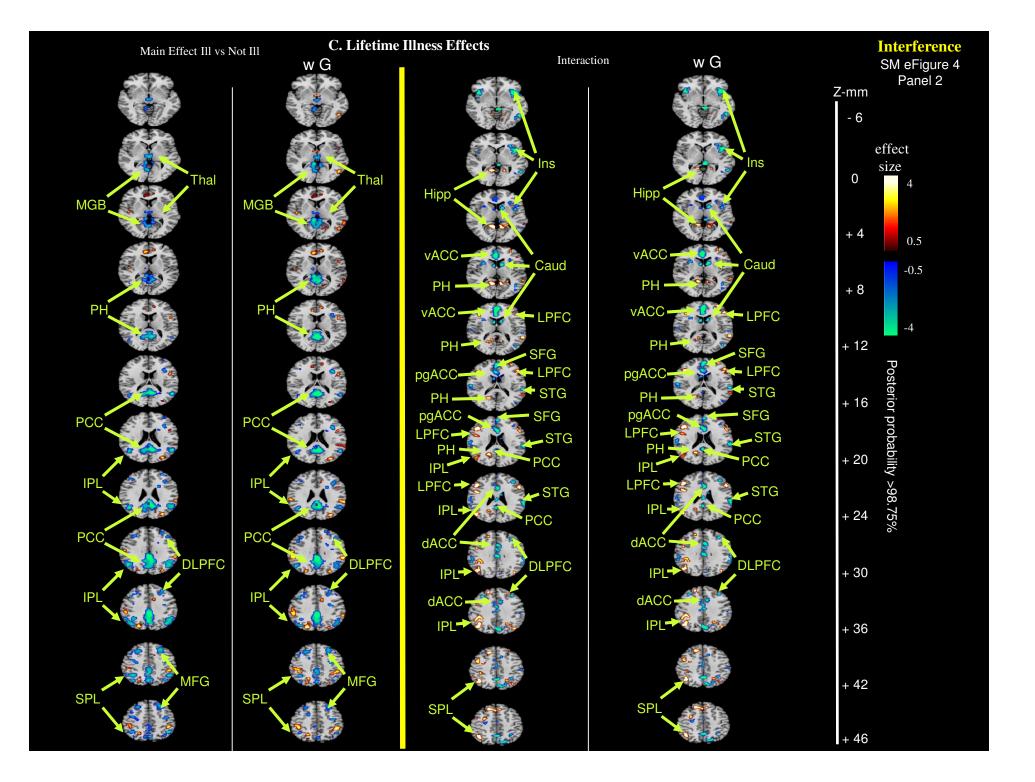


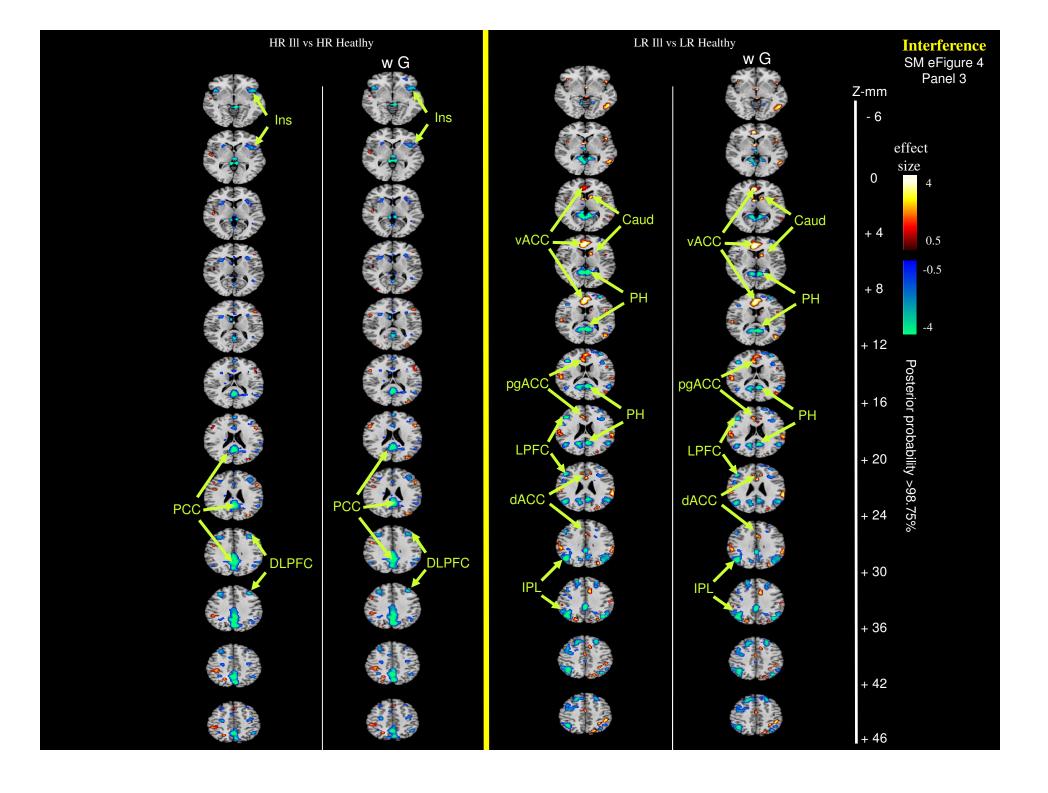
### Findings while Covarying for Generation 2 or 3

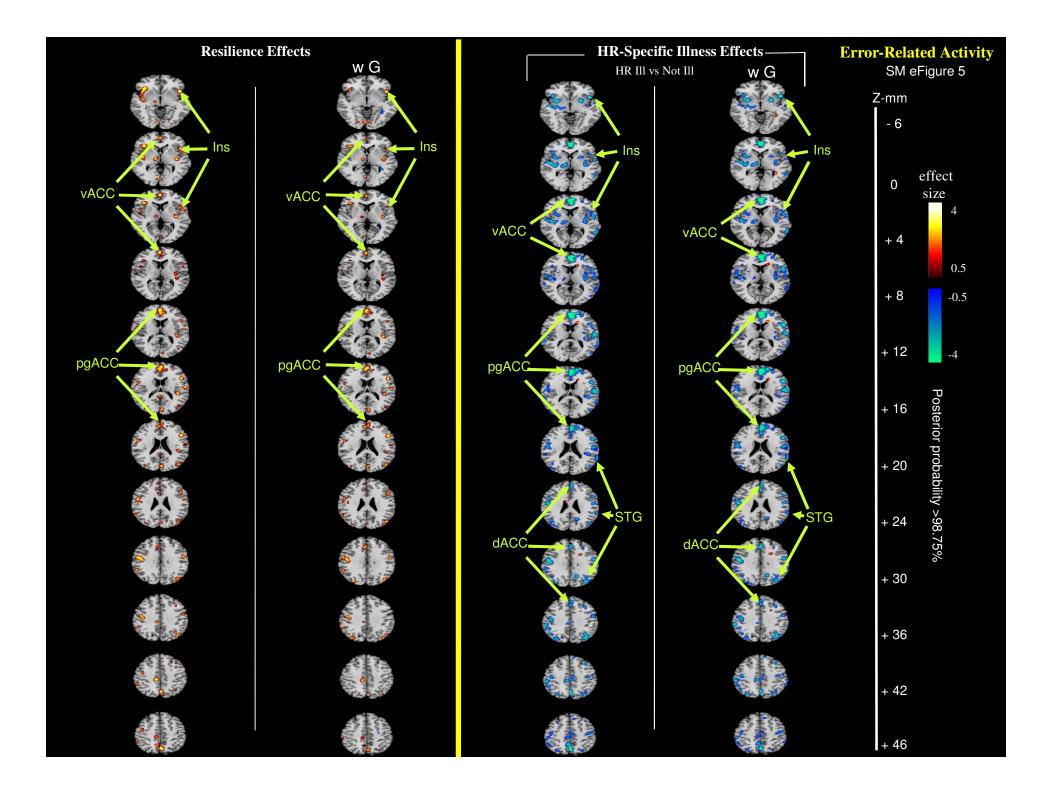
Identification of Risk, Resilience, and Illness Effects
Covarying for Age, Sex, Interference Scores, and Generation (G2 or G3),
all participants included (N=143, 83 HR, 60 LR)

Columns labeled "w G" are maps generated while covarying for Generation Columns without "w G" are the findings without covarying for Generation







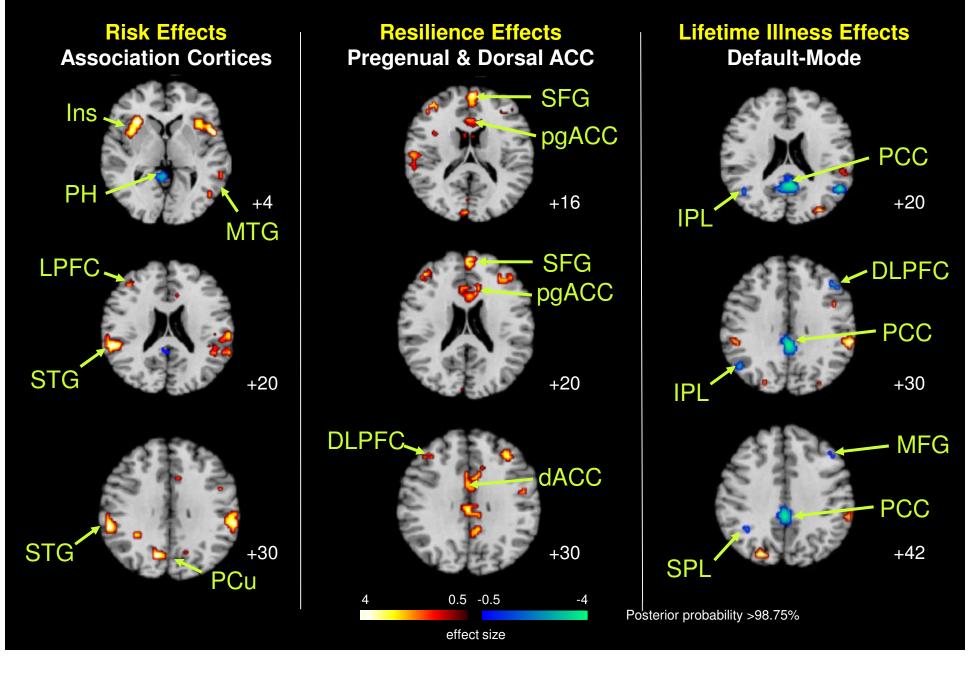


# Findings when Excluding 25 Participants (N=20 HR, N=5 LR) Taking Psychotropic Medications at the Time of Scan

Risk, Resilience, and Illness Effects
Identified Using Regression Analyses
(covarying for age, sex, and interference effects)

### **Interference-Related Activity**

### **Excluding 25 Participants Taking Psychotropic Medications**

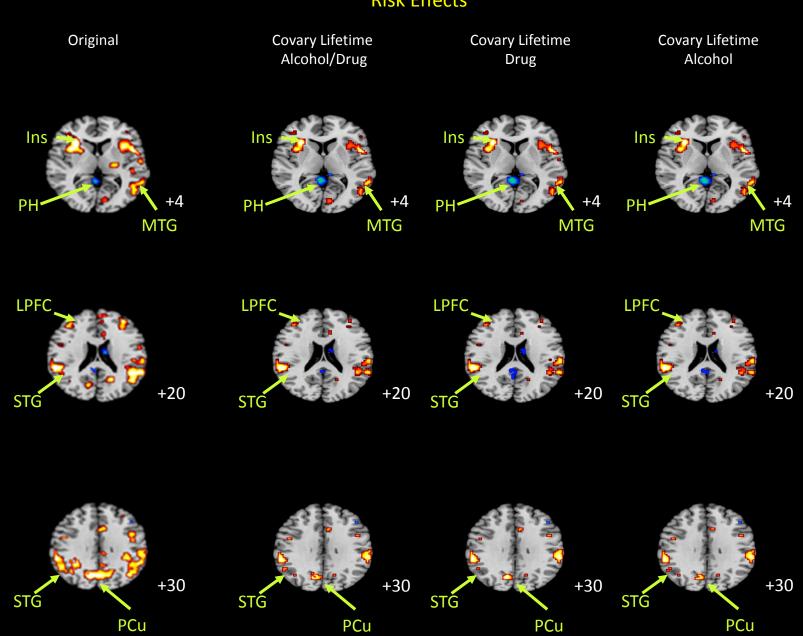


Findings when Excluding N=34 (HR=21, LR=13) Participants Who Had a Lifetime History of Abuse or Dependence on Either Drugs (N=23; HR 17, LR 6) or Alcohol (N=24; HR 24, LR 8)

Risk, Resilience, and Illness Effects
Identified Using Regression Analyses
(covarying for age, sex, and interference effects)

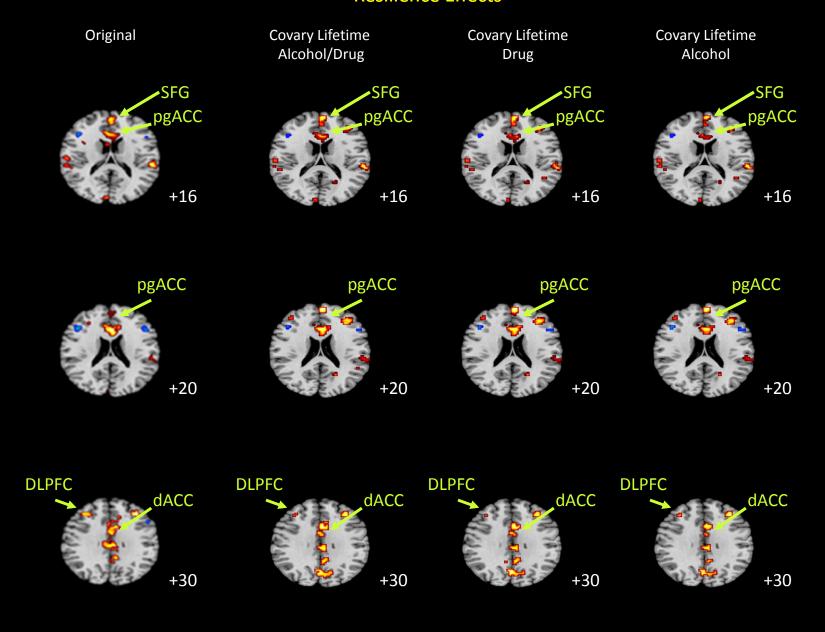
## Interference-Related Activity Risk Effects

SM eFigure 7 Panel 1



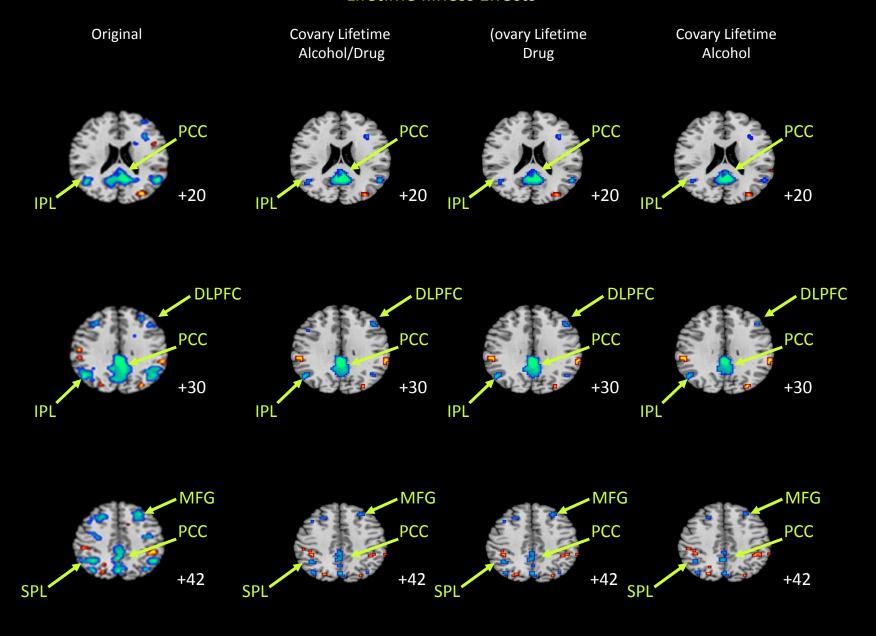
#### SM eFigure 7 Panel 2

## Interference-Related Activity Resilience Effects



### Interference-Related Activity

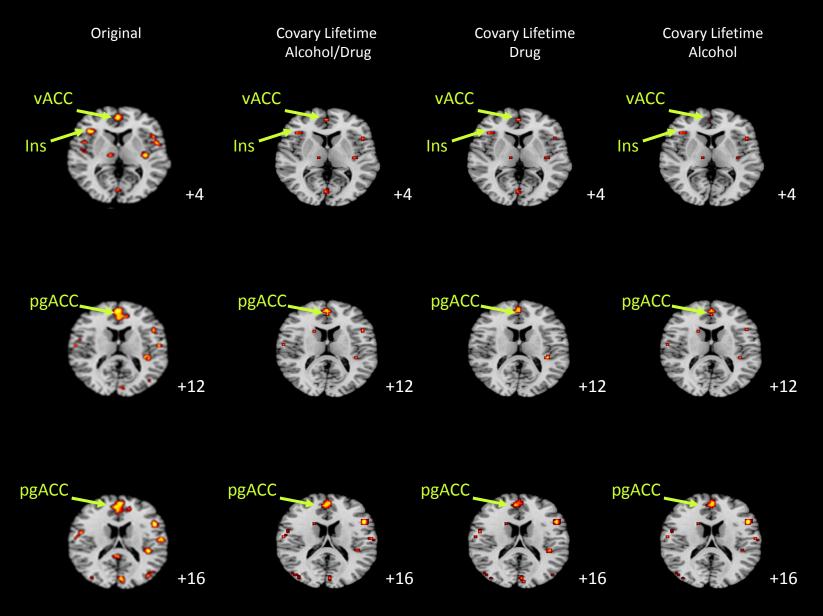
### **Lifetime Illness Effects**



### **Error-Related Activity**

SM eFigure 7 Panel 4

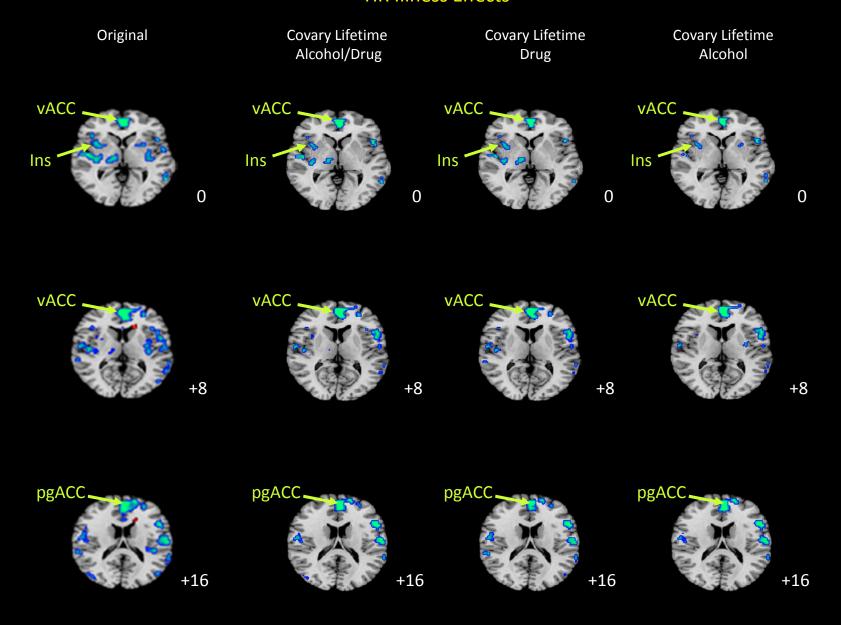
### **Resilience Effects**



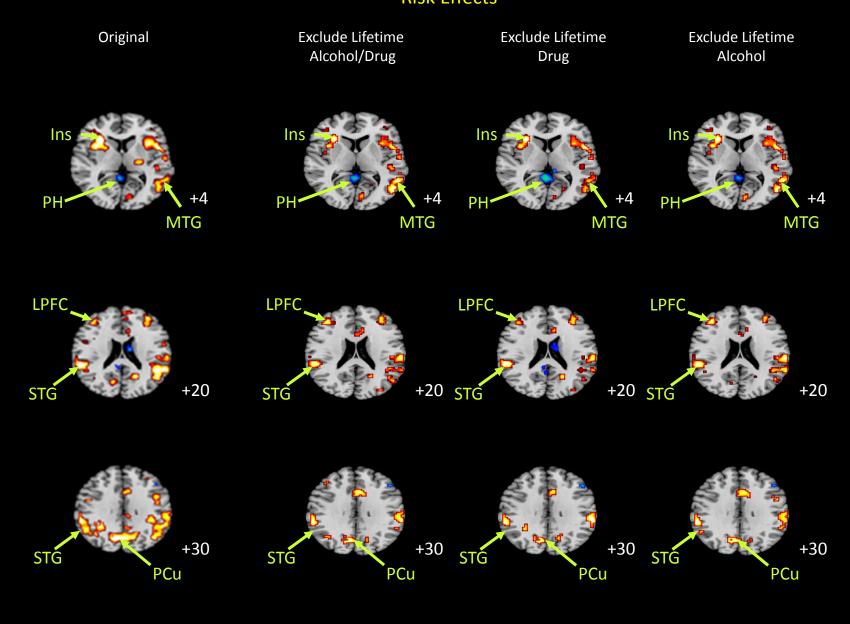
### Error-Related Activity

SM eFigure 7 Panel 5

### **HR Illness Effects**

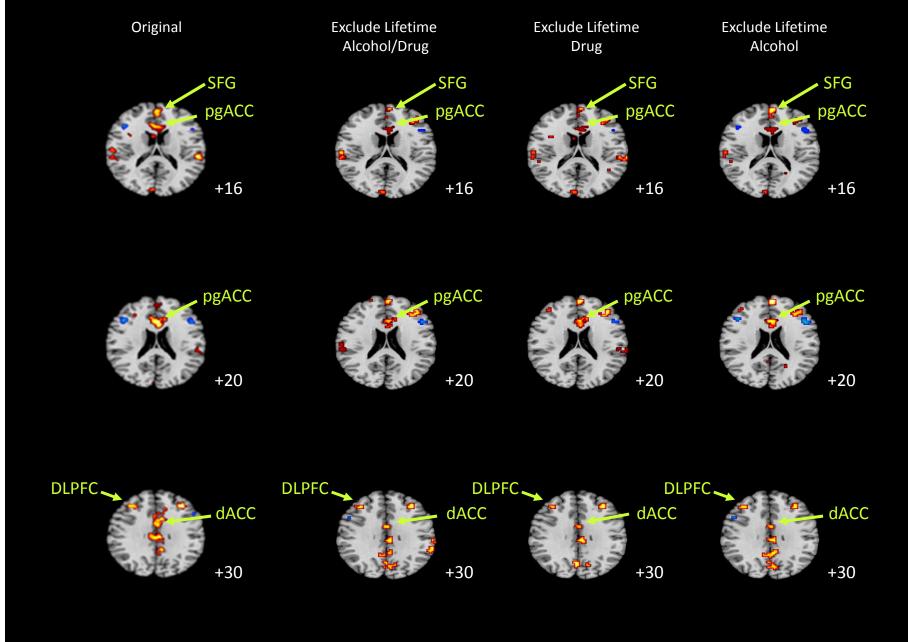


## Interference-Related Activity Risk Effects



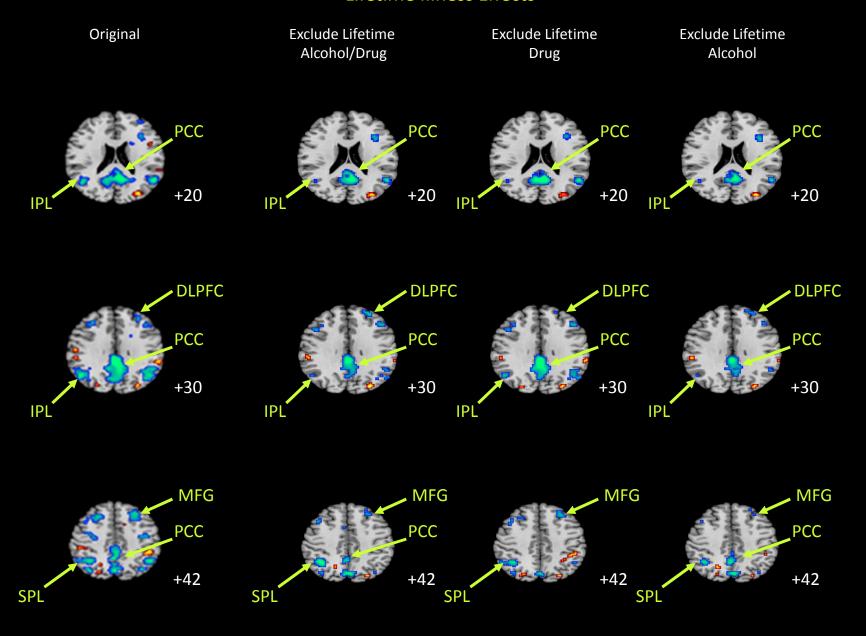
#### SM eFigure 7 Panel 7

## Interference-Related Activity Resilience Effects



### Interference-Related Activity

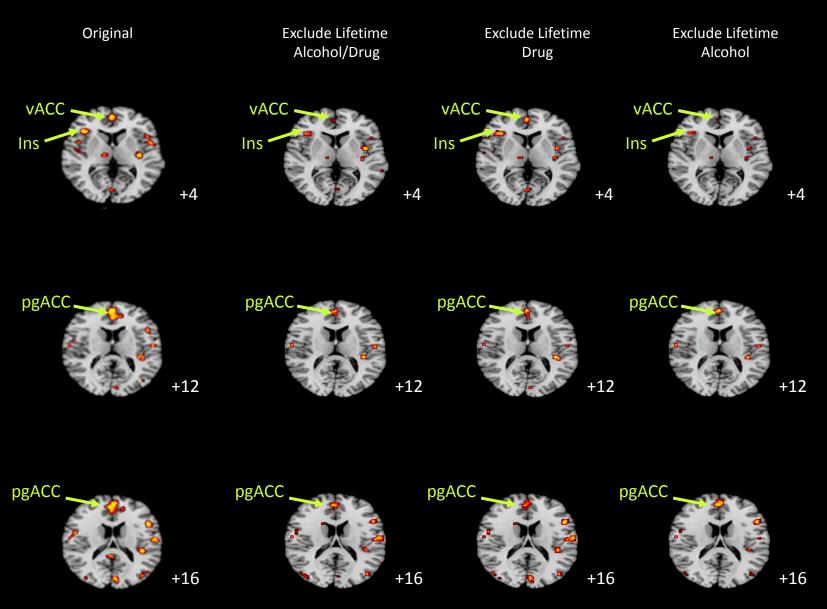
### **Lifetime Illness Effects**



### **Error-Related Activity**

SM eFigure 7 Panel 9

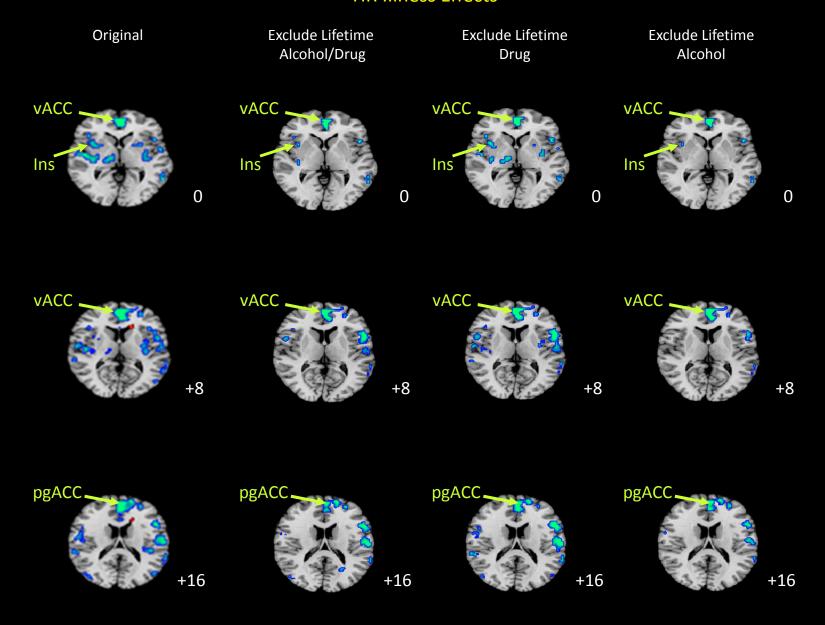
### **Resilience Effects**



### Error-Related Activity

SM eFigure 7 Panel 10

### **HR Illness Effects**



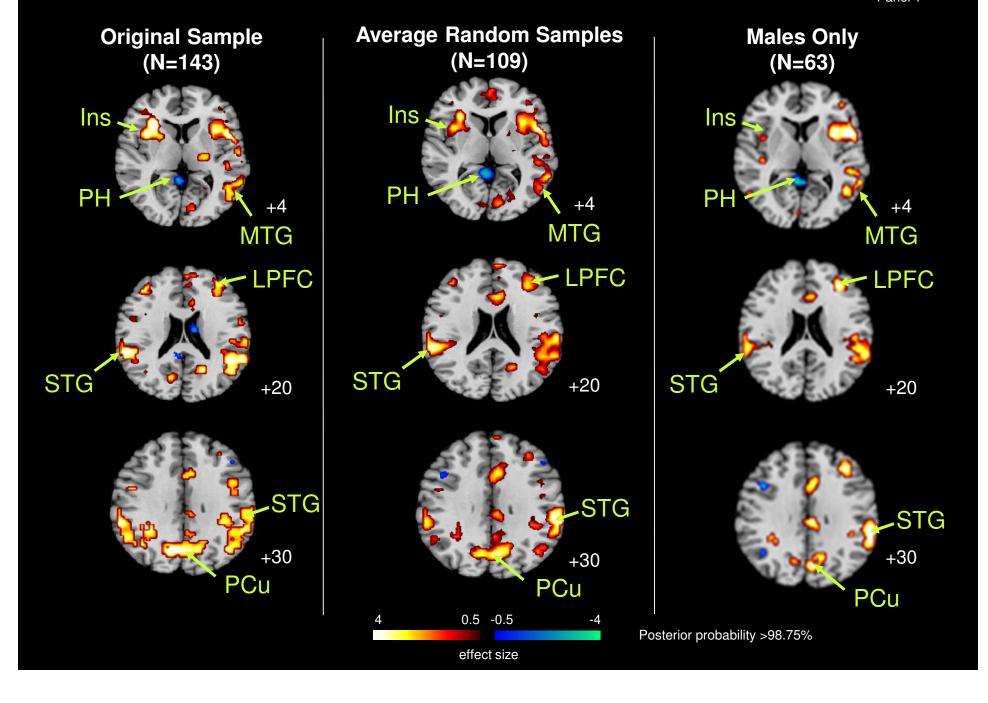
Average of Activation Maps from 10 Random Samplings of 6 Females with MDD/Anxiety to Demographically Match 6 Females without MDD/Anxiety,

Yielding 10 Subsamples of the Total Group,

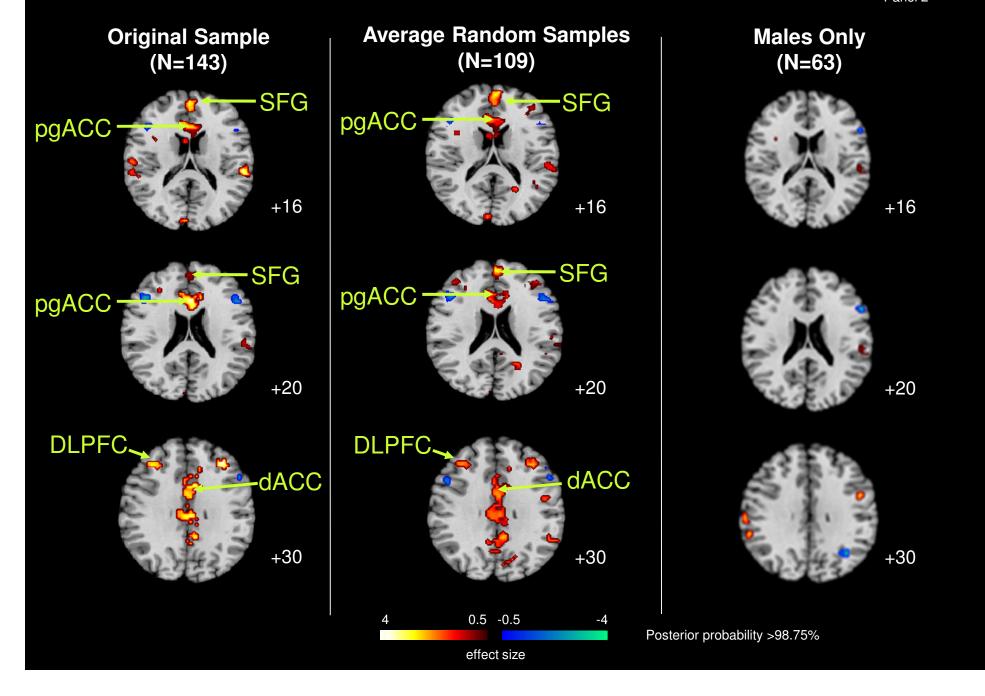
with N=109 (49 HR, 60 LR) in Each Random Sample

Identification of Risk, Resilience, and Illness Effects (covarying for age and interference effects)

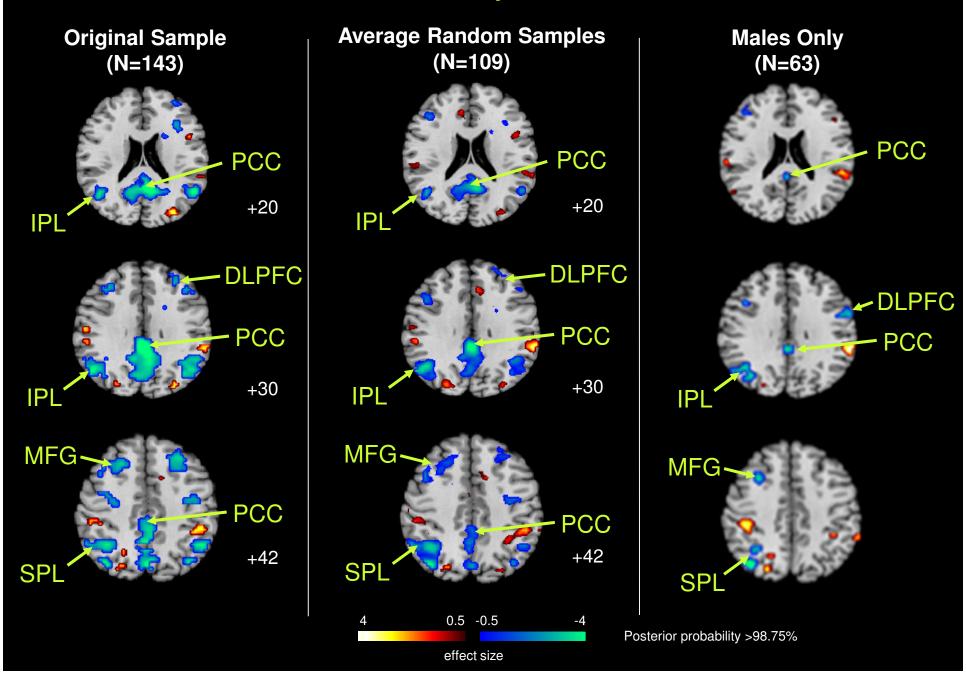
### **Interference-Related Activity: Risk Effects**



### **Interference-Related Activity: Resilience Effects**

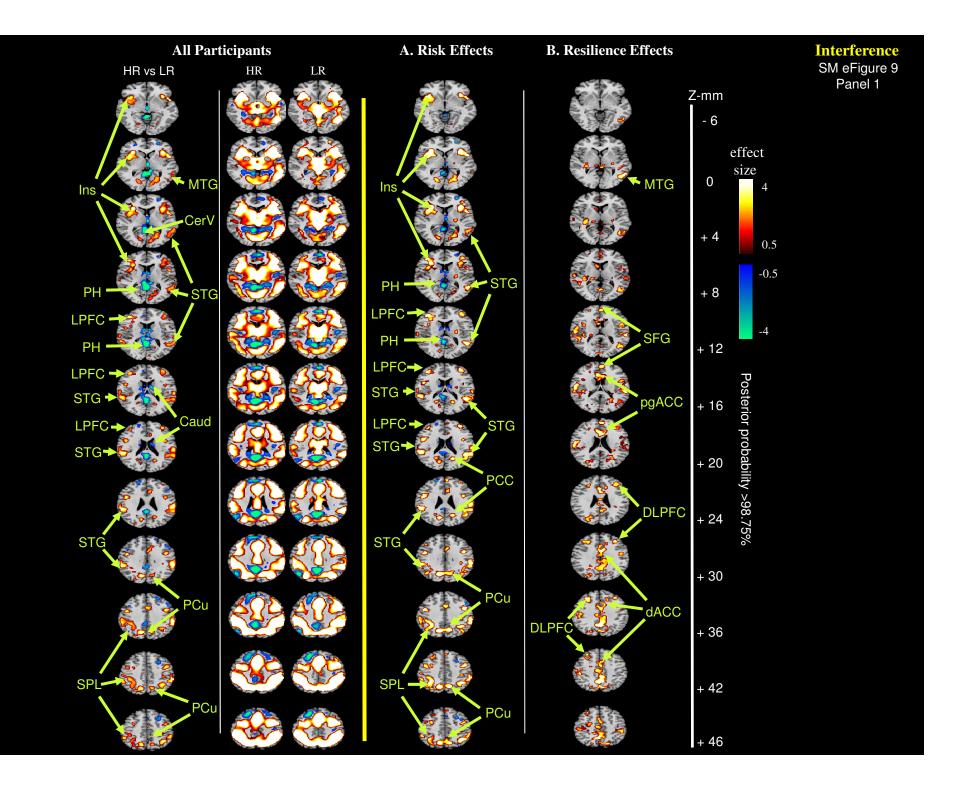


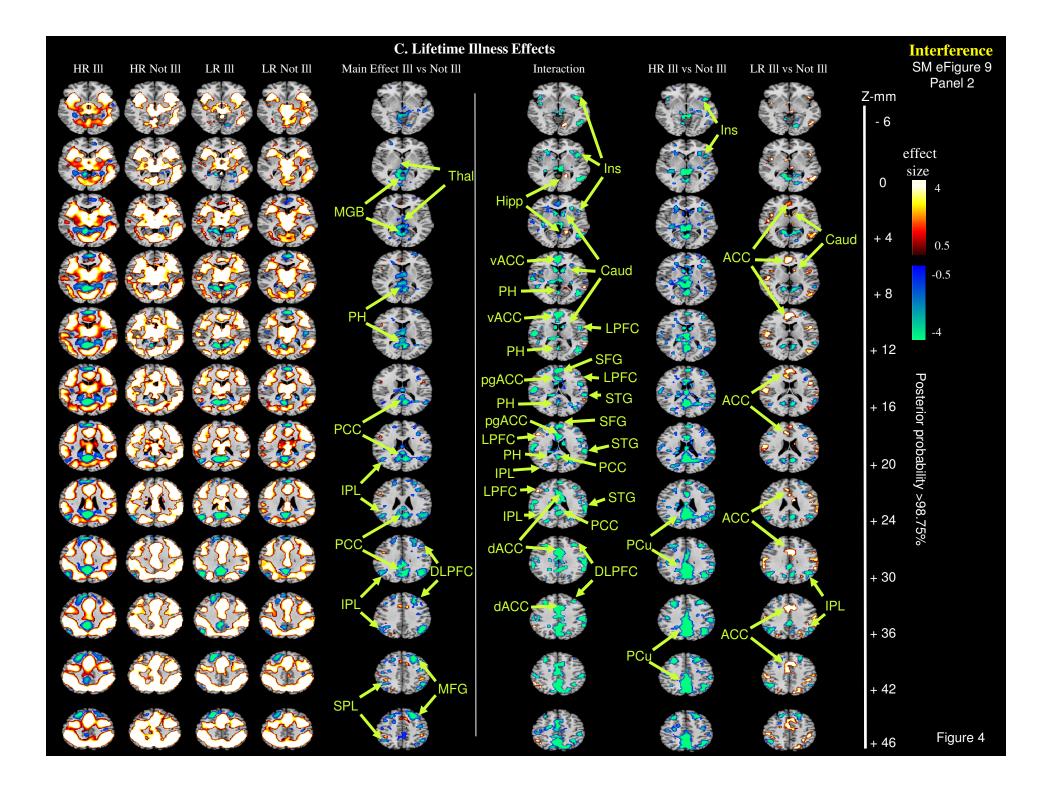
### **Interference-Related Activity: Lifetime Illness Effects**

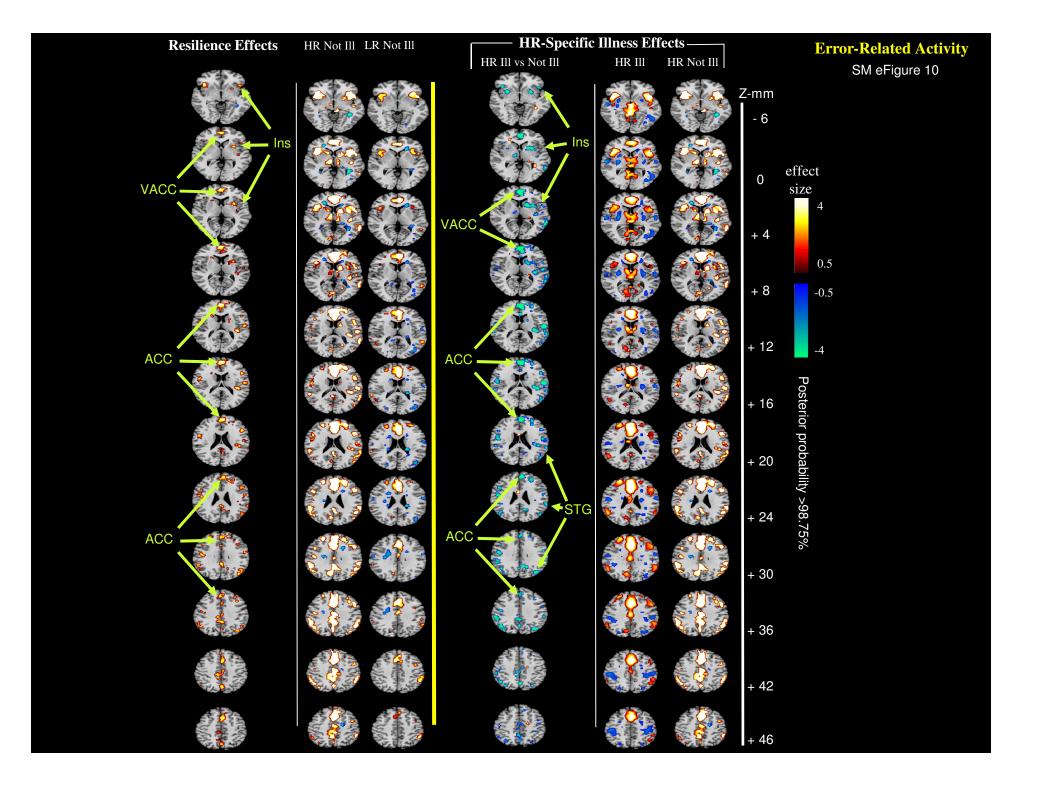


# Findings when Including Only Participants 25 Years of Age or Older (N=84; 58 HR, 26 LR)

Risk, Resilience, and Illness Effects
Identified Using Regression Analyses
(covarying for age, sex, and interference effects)







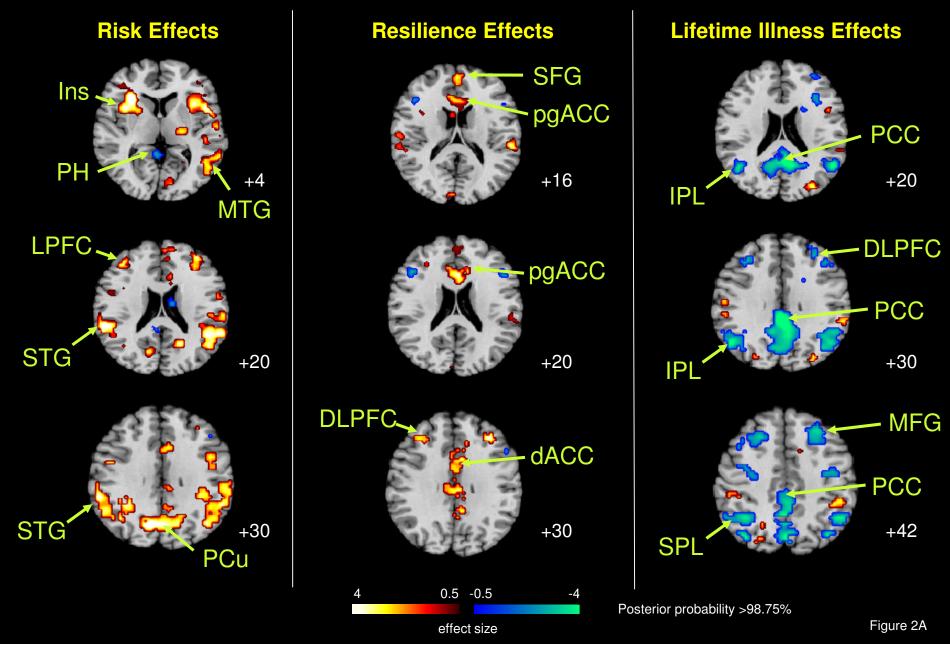
# Interference-Related Activity without Covarying for Generation (G2 or G3) or the Genealogical Index of Familiality (GIF)

(N=143, 83 HR, 60 LR)

Risk, Resilience, and Illness Effects
Covarying for Age, Sex, and Interference Scores

## Interference-Related Activity

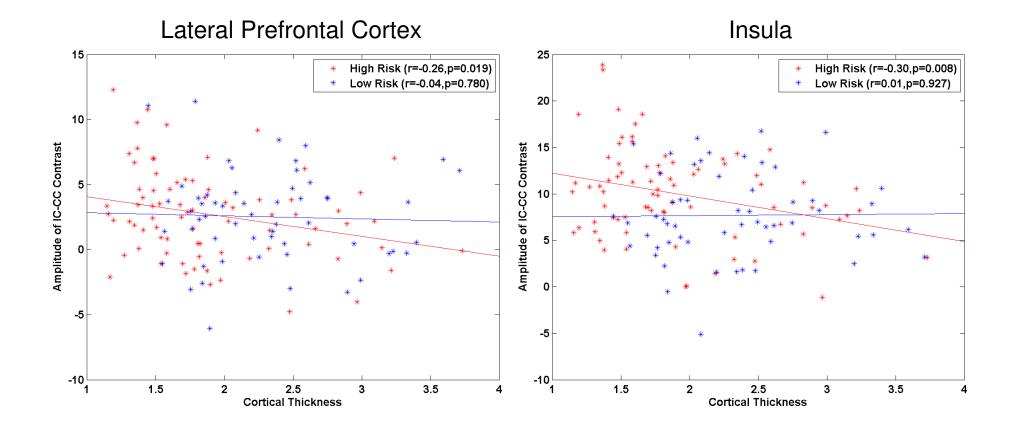
### **Covarying for Age, Sex, and Interference**





# Correlation of Activation in the Risk Effects Map with a Measure of Right Hemisphere Cortical Thickness

N=134 (78 HR, 56 LR) participants who had both functional and anatomical measures



### **Interference-Related Activity**

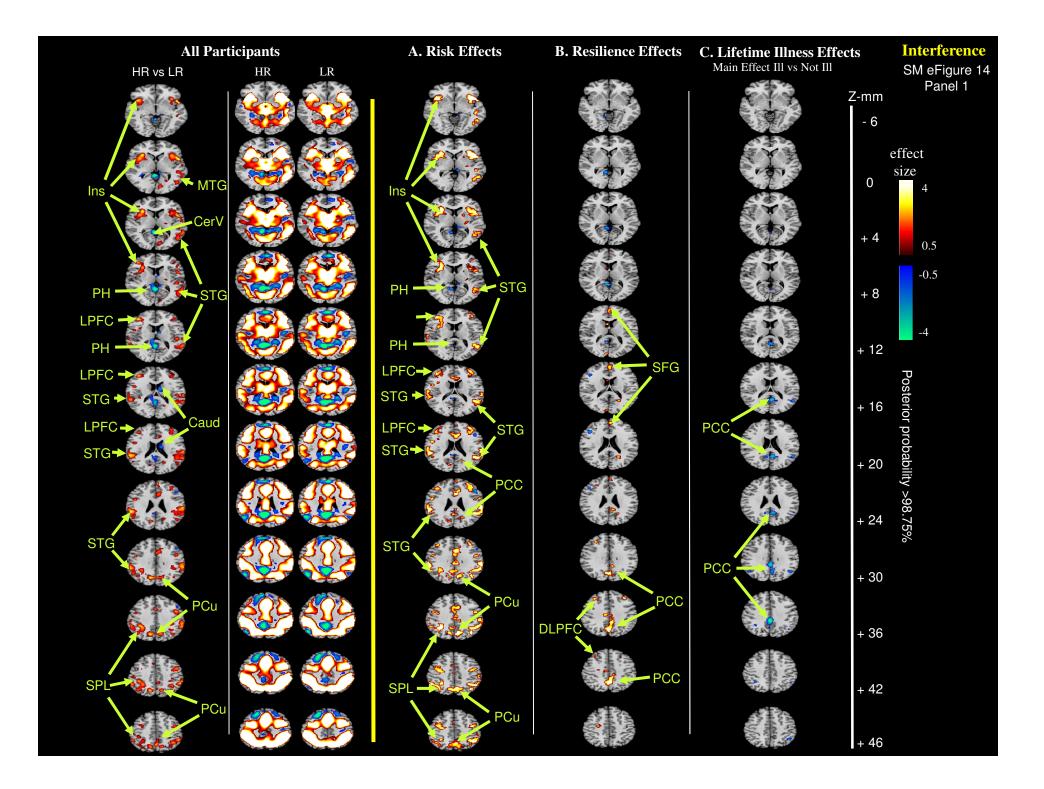
Covarying for Right Hemisphere Cortical Thickness, Age, Sex, and Interference

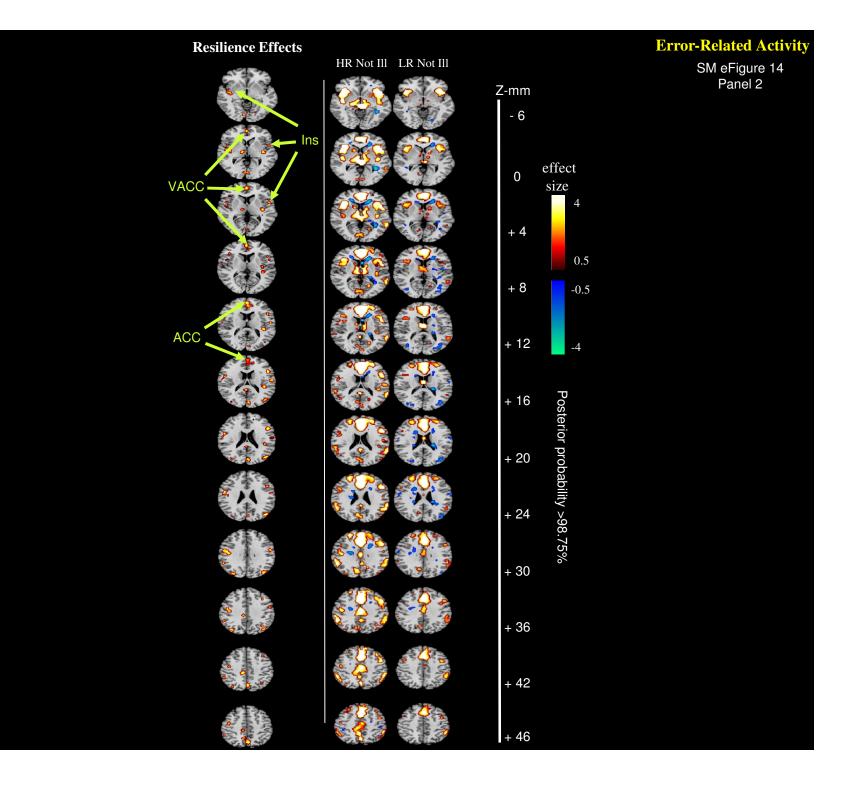
N=134 (78 HR, 56 LR) **Risk Effects Resilience Effects Lifetime Illness Effects** SFG Ins. pgACC PCC PH+16 +20 **IPL MTG LPFC** DLPFC pgACC PCC STG +20 +20 +30 **IPL DLPF**( **MFG** dACC PCC STG +30 +42 +30 SPI **PCu** 0.5 -0.5 Posterior probability >98.75% effect size

### e11

### **Logical Conjunction Analyses**

Identification of Risk, Resilience, and Illness Effects
All participants (N=143, 83 HR, 60 LR)





# Logical Conjunction Analyses (for Participants 25 Years or Older -- N=84; 58 HR, 26 LR)

Identification of Risk, Resilience, and Illness Effects

