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ABSTRACT

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$$\begin{pmatrix} 1 & -1 \end{pmatrix}$$
$$\left(\begin{array}{c} \vdots \\ \vdots \\ \vdots \end{array} \right) \cdot \left(\begin{array}{c} \vdots \\ \vdots \\ \vdots \end{array} \right) = \left(\begin{array}{c} \vdots \\ \vdots \\ \vdots \end{array} \right)$$

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[illegible]
$$\left(\begin{array}{c} \cdot \\ \cdot \\ \cdot \end{array} \right).$$

Materials and methods

Participants

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Stimuli and procedure

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$$\begin{pmatrix} \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & \cdot \end{pmatrix}$$
[illegible]
$$\left(\begin{array}{ccc} & & \\ & & \\ & & \end{array} \right)$$

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$$\left(\begin{array}{c} y \\ x \end{array} \right) = \frac{1}{\sqrt{\pi}} e^{-y^2} \left(\begin{array}{c} -y \\ 1 \end{array} \right)$$
 $(0, 10)$ $\dots, 1)$
$$\begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix}.$$

Results

fMRI data acquisition

fMRI data acquisition

fMRI data analysis

fMRI data analysis

Behavioral results

Behavioral results

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Discussion

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A

RTPJ

LTPJ

B

MPFC

X=0

Pain judgment > No pain judgment

Pain judgment > No pain judgment

Bar charts showing t-values for Neutral (blue) and Pain (red) conditions across four brain regions (RTPJ, LTPJ, MPFC, and X=0) for Asian, Caucasian, and Asian-Caucasian groups. The y-axis represents t-value, ranging from 0.0 to 1.4. Error bars represent standard error.

| Region | Group | Condition | t-value (approx.) |
|--------|-----------------|-----------|-------------------|
| RTPJ | Asian | Neutral | 0.65 |
| | | Pain | 0.65 |
| | Caucasian | Neutral | 0.85 |
| | | Pain | 1.00 |
| | Asian-Caucasian | Neutral | 0.95 |
| | | Pain | 1.05 |
| LTPJ | Asian | Neutral | 0.70 |
| | | Pain | 0.85 |
| | Caucasian | Neutral | 0.75 |
| | | Pain | 0.88 |
| | Asian-Caucasian | Neutral | 0.75 |
| | | Pain | 0.88 |
| MPFC | Asian | Neutral | -0.65 |
| | | Pain | -0.75 |
| | Caucasian | Neutral | -0.65 |
| | | Pain | -0.75 |
| | Asian-Caucasian | Neutral | -0.65 |
| | | Pain | -0.75 |
| X=0 | Asian | Neutral | -0.65 |
| | | Pain | -0.75 |
| | Caucasian | Neutral | -0.65 |
| | | Pain | -0.75 |
| | Asian-Caucasian | Neutral | -0.65 |
| | | Pain | -0.75 |

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1. The first part of the paper is a review of the literature on the topic of the paper. The second part is a description of the methodology used in the study. The third part is a presentation of the results of the study. The fourth part is a discussion of the results and their implications. The fifth part is a conclusion.

Acknowledgments

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