Supplement A. Calculation Details

A.1 Solution to $\nabla Q_1(\boldsymbol{\theta}|\boldsymbol{\theta}^{(t)}) = \mathbf{0}_3$

By solving $\nabla Q_1(\boldsymbol{\theta}|\boldsymbol{\theta}^{(t)}) = \mathbf{0}_3$ defined in §2.2, we have

$$\begin{cases} \theta_0^{(t+1)} = \dfrac{S_1^{(t)} + \sqrt{\big[S_1^{(t)}\big]^2 + 12nS_2^{(t)}}}{2S_2^{(t)}}, \\[2ex] \theta_1^{(t+1)} = \dfrac{S_3^{(t)} \pm \sqrt{\big[S_3^{(t)}\big]^2 + 4nS_4^{(t)}}}{2S_4^{(t)}}, \\[2ex] \theta_2^{(t+1)} = \dfrac{S_5^{(t)} \pm \sqrt{\big[S_5^{(t)}\big]^2 + 4S_6^{(t)}S_7^{(t)}}}{2S_6^{(t)}}, \end{cases} \tag{S1}$$

where

$$\begin{aligned} S_1^{(t)} &= n\left(1 + \frac{\theta_1^{(t)}}{1-\theta_1^{(t)}} + \frac{1-\theta_2^{(t)}}{\theta_2^{(t)}}\right), \\ S_2^{(t)} &= \sum_{i=1}^n B_1(\boldsymbol{x}_i, \boldsymbol{\theta}^{(t)}) \left\{1 + \frac{(1-x_{i1})[\theta_1^{(t)}]^2}{x_{i1}[1-\theta_1^{(t)}]^2} + \frac{x_{i2}[1-\theta_2^{(t)}]^2}{(1-x_{i2})[\theta_2^{(t)}]^2}\right\}, \\ S_3^{(t)} &= n\theta_0^{(t)} - 2n, \\ S_4^{(t)} &= n\theta_0^{(t)} - n + \big[\theta_0^{(t)}\big]^2 \sum_{i=1}^n B_1(\boldsymbol{x}_i, \boldsymbol{\theta}^{(t)}) \frac{1-x_{i1}}{x_{i1}}, \\ S_5^{(t)} &= -n\theta_0^{(t)} - 2\big[\theta_0^{(t)}\big]^2 \sum_{i=1}^n B_1(\boldsymbol{x}_i, \boldsymbol{\theta}^{(t)}) \frac{x_{i2}}{1-x_{i2}}, \\ S_6^{(t)} &= n - n\theta_0^{(t)} - \big[\theta_0^{(t)}\big]^2 \sum_{i=1}^n B_1(\boldsymbol{x}_i, \boldsymbol{\theta}^{(t)}) \frac{x_{i2}}{1-x_{i2}}, \\ S_7^{(t)} &= \big[\theta_0^{(t)}\big]^2 \sum_{i=1}^n B_1(\boldsymbol{x}_i, \boldsymbol{\theta}^{(t)}) \frac{x_{i2}}{1-x_{i2}}. \end{aligned}$$

From (S1), we know that the value of $\boldsymbol{\theta}^{(t+1)}$ is complex.

A.2 Calculations for $\nabla G_1(\boldsymbol{\theta}_{-0}|\boldsymbol{\theta}^{(t)})$

We can obtain

$$\begin{aligned}
\frac{\partial Q_1(\boldsymbol{\theta}|\boldsymbol{\theta}^{(t)})}{\partial \theta_1} &= \frac{n\theta_0}{(1-\theta_1)^2} + \frac{n}{\theta_1(1-\theta_1)} - \frac{\theta_0^2\theta_1}{(1-\theta_1)^3}\sum_{i=1}^{n}\frac{1-x_{i1}}{x_{i1}}B_1(\boldsymbol{x}_i, \boldsymbol{\theta}^{(t)}), \\
\frac{\partial Q_1(\boldsymbol{\theta}|\boldsymbol{\theta}^{(t)})}{\partial \theta_2} &= -\frac{n\theta_0}{\theta_2^2} - \frac{n}{\theta_2(1-\theta_2)} + \frac{\theta_0^2(1-\theta_2)}{\theta_2^3}\sum_{i=1}^{n}\frac{x_{i2}}{1-x_{i2}}B_1(\boldsymbol{x}_i, \boldsymbol{\theta}^{(t)}).
\end{aligned}$$

A.3 Calculations for $\nabla G_2(\boldsymbol{\vartheta}_{-0}|\boldsymbol{\vartheta}^{(t)})$

We can obtain

$$\begin{aligned}
\frac{\partial Q_2(\boldsymbol{\vartheta}|\boldsymbol{\vartheta}^{(t)})}{\partial \boldsymbol{\alpha}_1} &= \sum_{i=1}^{n}\left[1 + \theta_0\exp(\boldsymbol{w}_i^{\top}\boldsymbol{\alpha}_1) - \frac{1-x_{i1}}{x_{i1}}\theta_0^2\exp(2\boldsymbol{w}_i^{\top}\boldsymbol{\alpha}_1)B_2(\boldsymbol{x}_i, \boldsymbol{w}_i, \boldsymbol{\vartheta}^{(t)})\right]\boldsymbol{w}_i, \\
\frac{\partial Q_2(\boldsymbol{\vartheta}|\boldsymbol{\vartheta}^{(t)})}{\partial \boldsymbol{\alpha}_2} &= -\sum_{i=1}^{n}\left[1 + \theta_0\exp(-\boldsymbol{w}_i^{\top}\boldsymbol{\alpha}_2) - \frac{x_{i2}}{1-x_{i2}}\theta_0^2\exp(-2\boldsymbol{w}_i^{\top}\boldsymbol{\alpha}_2)B_2(\boldsymbol{x}_i, \boldsymbol{w}_i, \boldsymbol{\vartheta}^{(t)})\right]\boldsymbol{w}_i.
\end{aligned}$$

A.4 Calculations for $\nabla \ell_3(\boldsymbol{\phi}|Y_{\text{obs}_3})$

We can obtain

$$\begin{aligned}
\frac{\partial \ell_3(\boldsymbol{\phi}|Y_{\text{obs}_3})}{\partial \phi_0} &= n\left(\frac{\phi_1}{1-\phi_1} + \frac{1}{\phi_2}\right)\frac{\Gamma'\left(\frac{\phi_0\phi_1}{1-\phi_1} + \frac{\phi_0}{\phi_2}\right)}{\Gamma\left(\frac{\phi_0\phi_1}{1-\phi_1} + \frac{\phi_0}{\phi_2}\right)} - \frac{n\Gamma'(\phi_0)}{\Gamma(\phi_0)} - \frac{n\phi_1\Gamma'\left(\frac{\phi_0\phi_1}{1-\phi_1}\right)}{(1-\phi_1)\Gamma\left(\frac{\phi_0\phi_1}{1-\phi_1}\right)} \\
&\quad - \frac{n(1-\phi_2)\Gamma'\left(\frac{\phi_0}{\phi_2} - \phi_0\right)}{\phi_2\Gamma\left(\frac{\phi_0}{\phi_2} - \phi_0\right)} + \frac{\phi_1}{1-\phi_1}\sum_{i=1}^{n}\log\left(\frac{x_{i1}}{1-x_{i1}}\right) + \frac{1-\phi_2}{\phi_2}\sum_{i=1}^{n}\log\left(\frac{1-x_{i2}}{x_{i2}}\right) \\
&\quad - \left(\frac{\phi_1}{1-\phi_1} + \frac{1}{\phi_2}\right)\sum_{i=1}^{n}\log\left(1 + \frac{x_{i1}}{1-x_{i1}} + \frac{1-x_{i2}}{x_{i2}}\right), \\
\frac{\partial \ell_3(\boldsymbol{\phi}|Y_{\text{obs}_3})}{\partial \phi_1} &= \frac{n\phi_0\Gamma'\left(\frac{\phi_0\phi_1}{1-\phi_1} + \frac{\phi_0}{\phi_2}\right)}{(1-\phi_1)^2\Gamma\left(\frac{\phi_0\phi_1}{1-\phi_1} + \frac{\phi_0}{\phi_2}\right)} - \frac{n\phi_0\Gamma'\left(\frac{\phi_0\phi_1}{1-\phi_1}\right)}{(1-\phi_1)^2\Gamma\left(\frac{\phi_0\phi_1}{1-\phi_1}\right)} \\
&\quad + \frac{\phi_0}{(1-\phi_1)^2}\sum_{i=1}^{n}\log\left(\frac{x_{i1}}{1-x_{i1}}\right) - \frac{\phi_0}{(1-\phi_1)^2}\sum_{i=1}^{n}\log\left(1 + \frac{x_{i1}}{1-x_{i1}} + \frac{1-x_{i2}}{x_{i2}}\right),
\end{aligned}$$

$$
\begin{aligned}
\frac{\partial \ell_3(\boldsymbol{\phi}|Y_{\text{obs}_3})}{\partial \phi_2} &= -\frac{n\phi_0\Gamma'\left(\frac{\phi_0\phi_1}{1-\phi_1}+\frac{\phi_0}{\phi_2}\right)}{\phi_2^2\Gamma\left(\frac{\phi_0\phi_1}{1-\phi_1}+\frac{\phi_0}{\phi_2}\right)}+\frac{n\phi_0\Gamma'\left(\frac{\phi_0}{\phi_2}-\phi_0\right)}{\phi_2^2\Gamma\left(\frac{\phi_0}{\phi_2}-\phi_0\right)}-\frac{\phi_0}{\phi_2^2}\sum_{i=1}^n\log\left(\frac{1-x_{i2}}{x_{i2}}\right) \\
&\quad +\frac{\phi_0}{\phi_2^2}\sum_{i=1}^n\log\left(1+\frac{x_{i1}}{1-x_{i1}}+\frac{1-x_{i2}}{x_{i2}}\right).
\end{aligned}
$$

A.5 Calculations for $\nabla Q_3(\boldsymbol{\phi}|\boldsymbol{\phi}^{(t)})$

We can obtain

$$
\begin{aligned}
\frac{\partial Q_3(\boldsymbol{\phi}|\boldsymbol{\phi}^{(t)})}{\partial \phi_0} &= n\left(\frac{\phi_1}{1-\phi_1}+\frac{1}{\phi_2}\right)\frac{\Gamma'\left(\frac{\phi_0^{(t)}\phi_1^{(t)}}{1-\phi_1^{(t)}}+\frac{\phi_0^{(t)}}{\phi_2^{(t)}}\right)}{\Gamma\left(\frac{\phi_0^{(t)}\phi_1^{(t)}}{1-\phi_1^{(t)}}+\frac{\phi_0^{(t)}}{\phi_2^{(t)}}\right)}-\frac{n\Gamma'(\phi_0)}{\Gamma(\phi_0^{(t)})}-\frac{n\phi_1\Gamma'\left(\frac{\phi_0\phi_1}{1-\phi_1}\right)}{(1-\phi_1)\Gamma\left(\frac{\phi_0^{(t)}\phi_1^{(t)}}{1-\phi_1^{(t)}}\right)} \\
&\quad -\frac{n(1-\phi_2)\Gamma'\left(\frac{\phi_0}{\phi_2}-\phi_0\right)}{\phi_2\Gamma\left(\frac{\phi_0^{(t)}}{\phi_2^{(t)}}-\phi_0^{(t)}\right)}+\frac{\phi_1}{1-\phi_1}\sum_{i=1}^n\log\left(\frac{x_{i1}}{1-x_{i1}}\right)+\frac{1-\phi_2}{\phi_2}\sum_{i=1}^n\log\left(\frac{1-x_{i2}}{x_{i2}}\right) \\
&\quad -\left(\frac{\phi_1}{1-\phi_1}+\frac{1}{\phi_2}\right)\sum_{i=1}^n\log\left(1+\frac{x_{i1}}{1-x_{i1}}+\frac{1-x_{i2}}{x_{i2}}\right),
\end{aligned}
$$

$$
\begin{aligned}
\frac{\partial Q_3(\boldsymbol{\phi}|\boldsymbol{\phi}^{(t)})}{\partial \phi_1} &= \frac{n\phi_0\Gamma'\left(\frac{\phi_0^{(t)}\phi_1^{(t)}}{1-\phi_1^{(t)}}+\frac{\phi_0^{(t)}}{\phi_2^{(t)}}\right)}{(1-\phi_1)^2\Gamma\left(\frac{\phi_0^{(t)}\phi_1^{(t)}}{1-\phi_1^{(t)}}+\frac{\phi_0^{(t)}}{\phi_2^{(t)}}\right)}-\frac{n\phi_0\Gamma'\left(\frac{\phi_0\phi_1}{1-\phi_1}\right)}{(1-\phi_1)^2\Gamma\left(\frac{\phi_0^{(t)}\phi_1^{(t)}}{1-\phi_1^{(t)}}\right)} \\
&\quad +\frac{\phi_0}{(1-\phi_1)^2}\sum_{i=1}^n\log\left(\frac{x_{i1}}{1-x_{i1}}\right)-\frac{\phi_0}{(1-\phi_1)^2}\sum_{i=1}^n\log\left(1+\frac{x_{i1}}{1-x_{i1}}+\frac{1-x_{i2}}{x_{i2}}\right),
\end{aligned}
$$

$$
\begin{aligned}
\frac{\partial Q_3(\boldsymbol{\phi}|\boldsymbol{\phi}^{(t)})}{\partial \phi_2} &= -\frac{n\phi_0\Gamma'\left(\frac{\phi_0^{(t)}\phi_1^{(t)}}{1-\phi_1^{(t)}}+\frac{\phi_0^{(t)}}{\phi_2^{(t)}}\right)}{\phi_2^2\Gamma\left(\frac{\phi_0^{(t)}\phi_1^{(t)}}{1-\phi_1^{(t)}}+\frac{\phi_0^{(t)}}{\phi_2^{(t)}}\right)}+\frac{n\phi_0\Gamma'\left(\frac{\phi_0}{\phi_2}-\phi_0\right)}{\phi_2^2\Gamma\left(\frac{\phi_0^{(t)}}{\phi_2^{(t)}}-\phi_0^{(t)}\right)}-\frac{\phi_0}{\phi_2^2}\sum_{i=1}^n\log\left(\frac{1-x_{i2}}{x_{i2}}\right) \\
&\quad +\frac{\phi_0}{\phi_2^2}\sum_{i=1}^n\log\left(1+\frac{x_{i1}}{1-x_{i1}}+\frac{1-x_{i2}}{x_{i2}}\right).
\end{aligned}
$$

A.6 Calculations for $\nabla \ell_4(\boldsymbol{\varphi}|Y_{\text{obs}_4})$

We can obtain

$$
\begin{aligned}
\ell_4(\boldsymbol{\varphi}|Y_{\text{obs}_4}) &= c_3 + \sum_{i=1}^{n} \Bigg\{ \log\Gamma\left[\phi_0 + \phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right] - \log\Gamma(\phi_0) \\
&- \log\Gamma\left[\phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1)\right] - \log\Gamma\left[\phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right] \\
&+ \phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1)\log\left(\frac{x_{i1}}{1-x_{i1}}\right) + \phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\log\left(\frac{1-x_{i2}}{x_{i2}}\right) \\
&- \phi_0\left[1 + \exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]\log\left(1 + \frac{x_{i1}}{1-x_{i1}} + \frac{1-x_{i2}}{x_{i2}}\right)\Bigg\}.
\end{aligned}
$$

Then we have

$$
\begin{aligned}
\frac{\partial \ell_4(\boldsymbol{\varphi}|Y_{\text{obs}_4})}{\partial \phi_0} &= \sum_{i=1}^{n} \Bigg\{ \frac{\Gamma'\left[\phi_0 + \phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]}{\Gamma\left[\phi_0 + \phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]} \cdot \left[1 + \exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right] \\
&- \frac{\Gamma'(\phi_0)}{\Gamma(\phi_0)} - \frac{\Gamma'\left[\phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1)\right]}{\Gamma\left[\phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1)\right]}\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) - \frac{\Gamma'\left[\phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]}{\Gamma\left[\phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]}\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2) \\
&+ \exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1)\log\left(\frac{x_{i1}}{1-x_{i1}}\right) + \exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\log\left(\frac{1-x_{i2}}{x_{i2}}\right) \\
&- \left[1 + \exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]\cdot\log\left(1 + \frac{x_{i1}}{1-x_{i1}} + \frac{1-x_{i2}}{x_{i2}}\right)\Bigg\},
\end{aligned}
$$

$$
\begin{aligned}
\frac{\partial \ell_4(\boldsymbol{\varphi}|Y_{\text{obs}_4})}{\partial \boldsymbol{\beta}_1} &= \phi_0\sum_{i=1}^{n} \Bigg\{ \frac{\Gamma'\left[\phi_0 + \phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]}{\Gamma\left[\phi_0 + \phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]} - \frac{\Gamma'\left[\phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1)\right]}{\Gamma\left[\phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1)\right]} \\
&+ \log\left(\frac{x_{i1}}{1-x_{i1}}\right) - \log\left(1 + \frac{x_{i1}}{1-x_{i1}} + \frac{1-x_{i2}}{x_{i2}}\right)\Bigg\}\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1)\boldsymbol{v}_i,
\end{aligned}
$$

$$
\begin{aligned}
\frac{\partial \ell_4(\boldsymbol{\varphi}|Y_{\text{obs}_4})}{\partial \boldsymbol{\beta}_2} &= -\phi_0\sum_{i=1}^{n} \Bigg\{ \frac{\Gamma'\left[\phi_0 + \phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]}{\Gamma\left[\phi_0 + \phi_0\exp(\boldsymbol{v}_i^\top\boldsymbol{\beta}_1) + \phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]} - \frac{\Gamma'\left[\phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]}{\Gamma\left[\phi_0\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\right]} \\
&+ \log\left(\frac{1-x_{i2}}{x_{i2}}\right) - \log\left(1 + \frac{x_{i1}}{1-x_{i1}} + \frac{1-x_{i2}}{x_{i2}}\right)\Bigg\}\exp(-\boldsymbol{v}_i^\top\boldsymbol{\beta}_2)\boldsymbol{v}_i.
\end{aligned}
$$

Supplement B. Descriptions of Real Data

The data included 41 patients and 40 controls. The sample statistics of $\mathbf{x} = (X_1, X_2)^\top$ are shown in the following subsections. We give the statistics of common covariates (age & gender) in Table S1 and some descriptions of symbols in the following tables: (i) Var. is short for variables; (ii) Std stands for standard deviation of samples; (iii) Sample correlations are calculated based on *Spearman correlation coefficient* (Spearman's r), and the p-values of significance tests are denoted by p.

Table S1. Statistics for the common covariates (age & gender) between controls and patients.

	Controls			Patients		
Var.	Mean	Range	Std	Mean	Range	Std
Age	33.6341	19∼49	9.2351	33.6341	19∼42	9.2351
Gender*	0.2750	0, 1	0.4522	0.2439	0, 1	0.4348

* Male=0; Female=1.

B.1 Lateral and Suborbital Sulcus

The sample statistics for the thickness difference of horizontal ramus of the anterior segment of the lateral sulcus (X_1), suborbital sulcus (X_2) in right hemisphere and covariates (age & gender) in controls and patients are shown in Table S2, while the Spearman's r for X_1 & X_2 with covariates between controls and patients are given in Table S3.

Table S2. Statistics for the thickness difference of X_1 & X_2 in §5.1 and covariates (age & gender) between controls and patients.

	Controls			Patients		
Var.	Mean	Range	Std	Mean	Range	Std
X_1	0.4982	(0.0721, 0.9910)	0.2176	0.4091	(0.0090, 0.9640)	0.1966
X_2	0.5022	(0.0977, 0.9953)	0.1958	0.4199	(0.0047, 0.8279)	0.1967
	Spearman's r: 0.07 ($p > 0.05$)			**Spearman's r: −0.49** ($p \ll 0.01$)		

Table S3. Spearman's r for the thickness difference of X_1 & X_2 in §5.1 with covariates (age & gender) between controls and patients. * Male = 0; Female = 1.

	Controls		Patients	
Var.	Age	Gender*	Age	Gender*
X_1	$-$**0.33** ($p = 0.04$)	$-$0.09 ($p = 0.59$)	$-$0.22 ($p = 0.17$)	0.02 ($p = 0.89$)
X_2	$-$**0.53** ($p \ll 0.01$)	0.17 ($p = 0.31$)	$-$0.02 ($p = 0.89$)	$-$0.26 ($p = 0.11$)

B.2 Cingulate Gyrus and Lateral Occipito-Temporal Sulcus

The sample statistics for the thickness difference of left posterior-dorsal part of the cingulate gyrus (X_1) and right lateral occipito-temporal sulcus (X_2) in controls and patients are shown in Table S4, while the Spearman's r for X_1 & X_2 with covariates (age & gender) between controls and patients are given in Table S5.

Table S4. Statistics for the thickness difference of X_1 & X_2 in §5.2 and covariates (age & gender) between controls and patients.

	Controls			Patients		
Var.	Mean	Range	Std	Mean	Range	Std
X_1	0.4862	(0.1748, 0.9903)	0.1904	0.3891	(0.0097, 0.7767)	0.1740
X_2	0.5384	(0.2721, 0.8529)	0.1498	0.4647	(0.0074, 0.9926)	0.2122
	Spearman's r: $-$**0.43** ($p \ll 0.01$)			Spearman's r: 0.19 ($p > 0.05$)		

Table S5. Spearman's r for the thickness difference of X_1 & X_2 in §5.2 with covariates (age & gender) between controls and patients. * Male = 0; Female = 1.

	Controls		Patients	
Var.	Age	Gender*	Age	Gender*
X_1	$-$**0.50** ($p \ll 0.01$)	0.19 ($p = 0.24$)	$-$**0.36** ($p = 0.02$)	0.05 ($p = 0.78$)
X_2	0.18 ($p = 0.26$)	0.03 ($p = 0.87$)	$-$0.20 ($p = 0.21$)	$-$0.01 ($p = 0.96$)