

each woman's brain in two conditions, once as she sang a gospel song and again while speaking in tongues. By comparing the patterns created by these two emotional, devotional activities, the researchers could pinpoint blood-flow peaks and valleys unique to speaking in tongues.

Ms. Morgan, a co-author of the study, was also a research subject. She is a born-again Christian who says she considers the ability to speak in tongues a gift. "You're aware of your surroundings," she said. "You're not really out of control. But you have no control over what's happening. You're just flowing. You're in a realm of peace and comfort, and it's a fantastic feeling."

Contrary to what may be a common perception, studies suggest that people who speak in tongues rarely suffer from mental problems. A recent study of nearly 1,000 evangelical Christians in England found that those who engaged in the practice were more emotionally stable than those who did not. Researchers have identified at least two forms of the practice, one ecstatic and frenzied, the other subdued and nearly silent.

The new findings contrasted sharply with images taken of other spiritually inspired mental states like meditation, which is often a highly focused mental exercise, activating the frontal lobes.

The scans also showed a dip in the activity of a region called the left caudate. "The findings from the frontal lobes are very clear, and make sense, but the caudate is usually active when you have positive affect, pleasure, positive emotions," said Dr. James A. Coan, a psychologist at the <u>University of Virginia</u>. "So it's not so clear what that finding says" about speaking in tongues.

The caudate area is also involved in motor and emotional control, Dr. Newberg said, so it may be that practitioners, while mindful of their circumstances, nonetheless cede some control over their bodies and emotions.

Correction: Nov. 11, 2006

An article in Science Times on Tuesday about brain images of people speaking in tongues misstated the origins of the practice in America. It is thought to have begun in Pentecostal churches established in the early 1900s, not in charismatic churches. The charismatic movement began decades later.

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