

Abstract

Examining Consciousness Involvement in Somatic Marker Hypothesis

By

Kuan-Hua Chen, M.A.

Department of Psychology,

National Chengchi University, Taipei, Taiwan

July 2007

Chair: Keng-Chen Liang, PhD.

SUPERVISOR: Nai-Shing Yen, PhD.

The present study aimed to examine the relation between Somatic Marker (SM) Hypothesis and consciousness. A revised Iowa Gambling Task (IGT) was created in which emotions attached to different decks are activated unconsciously by subliminally presenting different emotional pictures. On the other hand, conscious information coming from task outcomes is controlled. Based upon this task, and with some variances in experimental designs, it was found that consciousness might be necessary in SM operation. In addition, even emotions that are irrelevant the ongoing task can be taken as SMs. Furthermore, the SM operation can be taken place when the task or situation is with conflict. A possible mechanism for SM operation is also proposed in the study.

Keyword: somatic marker hypothesis, consciousness, emotion, decision making

意識在軀體標記假說中涉入情形之檢驗

國立政治大學 心理學研究所

陳冠華

摘 要

本研究檢視軀體標記假說與意識之關係。研究中使用一修改版愛荷華賭博作業，其中與各副牌所連結的情緒為由闕下呈現的情緒圖片在意識下所引發，而意識上每副牌輸贏的訊息則加以控制。本研究透過此作業以及實驗設計上不同的操弄，結果發現：意識應為軀體標記運作時的必要條件。此外，即使是與作業無關的情緒也可以被當作軀體標記加以被處理。再則，軀體標記的運作可以在具有衝突的作業情境下發生。最後，本研究提出了一個軀體標記運作的可能機制。

關鍵字：軀體標記假說、意識、情緒、決策判斷