Preference Reversal in Risky Choices Under Time Pressure

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In three studies, we examine the phenomenon that time pressure leads risky decision-making to a reversal of the usual preference. In Study 1, participants with positive (negative) affect were risk-seeking (risk-averse) when there was no time pressure, but adopted risk-averse (risk-seeking) behaviours under time pressure. In Study 2, we show that it is the salience of negative information under time pressure that mediates the preference reversal. In Study 3, participants with a promotion (prevention) focus preferred prevention-(promotion-) framed and safer (riskier) choices under time pressure. Results suggest that, under time pressure, individuals tend to reverse their risk preferences, with consequences in everyday decision-making.

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EXTENDED ABSTRACT

One pervasive aspect of decision-making under time pressure is the salience of negative information. Research has repeatedly concluded that “the harassed decision maker” tends to weigh the possible negative consequences of his or her action heavily to the relative disregard of the possible positive rewards of those same actions. In this paper, we propose that the salience of negative information under time pressure not merely leads to risk-aversion, but that it may reverse an individual’s usual preferences.

Individuals are typically either risk-seeking or risk-averse. Research outside the time pressure domain has shown that, when negative information becomes salient, risk-seeking individuals perceive little room for further gains but large likelihood of accruing losses, causing them to adopt risk-averse behaviours. In a choice between a modest-but-certain and greater-but-uncertain gamble, risk-seeking individuals tend to adopt risk-averse behaviours whereas risk-averse individuals tend to adopt risk-seeking ones. Meanwhile, for risk-averse individuals, the salience of negative information only adds to the extant negativity, causing them to adopt risk-seeking behaviours with the hopes of removing the negative state. We extend these findings to the time pressure domain and suspect that time pressure would likewise be one instance where individuals would reverse their usual risk preferences to adapt to the salience of negative information. We examine this possibility in three studies.

In Study 1, participants with positive (negative) affect chose a riskier (certain) lottery to a NHL hockey game when there was no time pressure, but adopted the certain (riskier) approach under time pressure. We thus demonstrated the basic outline of our hypothesis.

In Study 2, we used a gambling task in which participants stated their willingness to gamble for specific dollar amounts. We also added a thought protocol to assess the participants’ emphases on positive versus negative outcomes during the gambling process. Under no time pressure, risk-seeking (risk-averse) individuals focused more on positive (negative) outcomes than negative (positive) ones. Under time pressure, however, risk-seeking (risk-averse) individuals focused more on negative (positive) outcomes than positive (negative) ones. The focus on positive versus negative information for risk-seeking and risk-averse individuals reversed under time pressure. These differences in focus on positive versus negative outcomes mediated the preference reversal.

In Study 3, we explored a similar preference reversal in regulatory orientation using a consumer choice task involving toothpaste and grape juice brands as well as investment choices. Under no time pressure, promotion- (prevention-) focused individuals preferred promotion- (prevention-) framed and risk-seeking (risk-averse) brands and choices. Under time pressure, however, promotion- (prevention-) focused individuals preferred prevention- (promotion-) framed and risk-averse (risk-seeking) brands and choices.

Taken together, the three studies suggest that individuals tend to reverse their preference for risky choices under time pressure compared to situations under no such constraint. It is important to note, however, that preference reversals in risky choices do not occur because risk-seeking individuals want to avoid risks or that risk-averse individuals want to take risks, but that they need to. Risk-seeking individuals adopt risk-averse behaviours when negative information becomes salient because such an approach can secure gains, in line with the goals of risk-seeking. Conversely, risk-averse individuals adopt risk-seeking behaviours when negative information becomes salient because such an approach can avoid further losses, in line with the goals of risk-aversion. Thus, preference reversals are not in innate risk preferences, but in the perception and adoption of the behaviours that best serve their objectives given the circumstance. Our findings have important marketing implications since consumers often face decision-making tasks under time pressure in everyday life.

REFERENCES


