# Choice of non-monetary incentives and coupon redemption intention: Monetary saving and price consciousness as moderators 


#### Abstract

Coupon promotion is widespread in the fast casual restaurant sector. As monetary saving offered in the coupons is costly to suppliers, this study examines: (1) if the provision of choice of nonmonetary incentive can substitute high monetary saving in their positive influences on consumers' redemption intention; and (2) if the substitution effect is contingent on consumers' level of price consciousness. Drawing from three experimental studies, the results consistently showed that offering choice of non-monetary incentive was effective in increasing consumers' redemption intention through enhancing their attitude towards the coupon promotion. The effect of offering choice of non-monetary incentive substituted that of high monetary saving, but the substitution effect was merely salient among low price-conscious consumers while the floodlight analysis revealed the point that bifurcates high (versus low) level of price consciousness. The findings add knowledge to the sales promotion and hospitality literature. Meaningful implications are recommended for fast casual restauranteurs.


Keywords: Coupon redemption; Sales promotion; Face value; Choice; Conditional moderatedmediation; Fast casual restaurant.

## 1. INTRODUCTION

Coupon has been a long-existing bait to induce consumer purchase behavior. According to Valassis (2019), over 256 billion consumer packaged goods (CPG) coupons (both print and electronic formats) were distributed in 2018. Coupon promotion prevails across industries (Pandey \& Maheshwari, 2016), especially in the restaurant industry (Campisi, 2019). Restaurants employing coupons as a promotional tool potentially improves consumer willingness to repatronize, increases sales volume, attracts new customers, and enhances competitiveness in the highly competitive market (Lin et al., 2015; Myung et al., 2007). Additionally, consumers attracted by coupon promotion to a restaurant generally spend more than the coupon face value as well as exhibit loyalty (Kimes \& Dholakia, 2011). Among various types of restaurants, fast casual restaurants (for example sandwich house) adopt coupon promotion more often as they primarily target young consumers whose spending power is lower (Jenkins, 2020).

Although coupon promotion can allure consumers to make consumptions via obtaining the desired goods and services at a reduced price (Clark et al., 2013), such monetary incentives (i.e., monetary saving by using the coupon) are costly to suppliers as lower revenue will be generated when customers redeem the coupon (Raghubir, 2004). Besides monetary incentive, prior research noted that non-monetary incentive can motivate people to act but is not as effective as monetary incentive (Sittenthaler \& Mohnen, 2020). Is there any value-added factor that can increase the effectiveness of non-monetary incentive? Grounded in customer's psychological
need of having choices (Hui \& Bateson, 1991), we explore if choice can leverage the value of non-monetary incentive so that it will be as effective as monetary saving in the fast casual restaurant context. Therefore, the first objective of the current study is to examine if provision of choice of non-monetary incentive (i.e., allowing the coupon recipients to buy any but not predetermined sandwich combo at a discounted price in a sandwich house) is able to compensate the positive effect of high monetary incentive (higher coupon face value) on consumers' coupon redemption intention. To our best understanding, no attempt has been made in examining monetary incentive and offering choice of non-monetary incentive simultaneously, as well as whether they can substitute each other in their influences on human responses. This literature gap is narrowed by the current study.

The second objective of the current study is to identify a boundary condition that qualifies the effects of monetary incentive and choice of non-monetary incentive on redemption intention. Previous research has revealed that redemption intention varies with individuals (Chiou-Wei \& Inman, 2008; Scheinbaum et al., 2020). The findings are consistent with the principle of psychological fit which suggests that the match of consumption with psychological need shapes positive consumer responses (Matz et al., 2016), including coupon redemption (Venkatesan \& Farris, 2012). Among various types of individual differences, price consciousness which refers to consumers' tendency towards paying a low price (Kukar-Kinney et al., 2007) is a highly relevant factor. Its decisive role in consumer responses to sales promotion has been well-documented in the literature (e.g., Bozkurt \& Gligor, 2019; Gauzente \& Roy, 2012; Kukar-Kinney et al., 2007), but its role in the interplay of monetary and non-monetary incentives has remained unclear. Particularly, in the context of this study, monetary incentive matches with consumers' price consciousness and hence results in psychological fit. However, the change of this fit with choice of non-monetary incentive remains unknown. By examining this issue, practitioners will be able to effectively identify the target group for their coupon in which monetary saving and choice of non-monetary incentive co-exist.

To fill the gaps noted above, this study examines the dynamics of choice of non-monetary incentive and monetary incentive (i.e., coupon face value) on consumers' coupon redemption intention, as well as whether the dynamics vary with consumers' price consciousness. Attitude towards the coupon offer is considered as a mediator to understand the underlying mechanism. Three experiments in the context of fast casual restaurant were conducted to add knowledge to the hospitality marketing and broader literature.

## 2. LITERATURE REVIEW AND HYPOTHESES

### 2.1 Theoretical Background

Economic tenet suggests that incentive is central to a person's provision of his/her effort (Erkal et al., 2018). In coupon research, effort provision resembles redemption of coupon as consumers invest time on searching, sorting, and redeeming the coupons (Nakhata \& Kuo, 2017). Numerous studies have demonstrated the effectiveness of monetary saving in motivating coupon redemption (Danaher et al., 2015; Dickinger \& Kleijnen, 2008; Souiden et al., 2019; Yin, \&

Dubinsky, 2004). A stream of research focused on the thresholds that differentiate the monetary incentive effect, while the thresholds can be categorized as situational and personal factors. The situational thresholds, for examples, include perishability of products (Chiou-Wei \& Inman, 2008), amount of saving (Barat \& Paswan, 2005), information load (Jia et al., 2018), price information of alternatives (Raghubir, 2004), and customized coupon redemption (Venkatesan \& Farris, 2012). The personal thresholds include coupon proneness (Guimond et al., 2001), cultural backgrounds and values (Lalwani \& Wang, 2019), saving orientation, inclination towards comparison, and benefit preference (Jia et al., 2018). Along this stream of research, an exploration of additional threshold will add knowledge to the scholarship. Inspired by Jia et al.'s (2018) note that some coupons are applicable to a specific product, whereas others can be used for any option within a product line, we propose choice of non-monetary incentive as a threshold that differentiates the monetary incentive effect.

### 2.2 Choice of Non-monetary Incentive, Redemption Intention, and the Mechanism

Provision of choice increases consumer probability to behave according to marketers' desire because the consumer gains decisional control in the process (Hui \& Bateson, 1991). The higher perceived control satisfies a primitive need of mankind, and hence has been empirically demonstrated to shape emotional and cognitive responses across domains. For examples, higher control increases gamblers' enjoyment, confidence in betting (Goodman \& Irwin, 2006), patients' satisfaction (Orom et al., 2016), customers' positive emotion (Stevens et al., 2017), and consumers' intention to participate during the co-production process (Esmark et al. 2016).

A major psychological outcome of consumers' decisional control is the sense of empowerment (Wathieu et al., 2002). With choices, consumers feel being empowered in their negotiation with the suppliers during the transaction process (Akhavannasab et al., 2018). The sense of empowerment then motivates consumers to purchase (Fuchs et al., 2010) and spread positive word-of-mouth (Belanche et al., 2020). However, choices may possibly backfire when decision makers consider the trade-off among options (i.e., taking an option is at the expense of other desirable options). They regret for not making the optimal decision (Broniarczyk \& Griffin, 2014). The regret, however, is not applicable to this study as it will not be realized until consumers make the choices upon their redemption of coupon. When they are reading the promotional cues on the coupon, their regret is unlikely to be triggered. In sum, the value of having choice plausibly increases the value or attractiveness of non-monetary incentive in the coupon promotion.

Attitude, the extent to which individuals evaluate a behavior positively or negatively, acts as a key determinant of their intention to perform certain behavior (Ajzen, 1991). In coupon research, consumer attitude towards the use of coupon dictates their redemption intention (Yakasai \& Josoh, 2015). They enjoy the benefit brought by the coupon. However, they also hold concerns and anxiety regarding their coupon redemption behavior. It is because of the possible destruction to personal image for being labeled as a frugal shopper (Argo \& Main, 2008; Ashworth et al., 2005). Hence, consumers vary in terms of their proneness towards using
coupons (Lichtenstein et al., 1990). Even though consumers' coupon proneness is positive, it does not mean that they will redeem a coupon which appears unattractive to them. According to the persuasion paradigm of Elaboration Likelihood Model (ELM) (Petty et al., 1983), consumers process the cues (e.g., the message) in the coupon to form attitude towards the offer which in turn influence their redemption intention. In this vein, our proposition of higher intention to redeem the coupon in consequence of having choices on the non-monetary incentives is likely to be due to the positive attitude towards the coupon offer (i.e., a mediator). Therefore, we propose the following hypothesis:

Hypothesis 1: The provision (versus lack) of choice of non-monetary incentive increases redemption intention through positive attitude towards the coupon promotion

### 2.3 The Moderating Role of Monetary Saving (Coupon Face Value)

The coupon face value is a monetary saving cue that leads to redemption - coupon value effect (Argo \& Main, 2008; Venkatesan \& Farris, 2012). Theoretically, the coupon value effect on redemption is linear, but prior study empirically proves that the effect exhibits an inverted U shape curve (Jia et al., 2018). Specifically, redemption rate declines after monetary saving reaches a certain point. To illustrate, without the price information, consumers infer the price based on the coupon face value (Raghubir, 1998). High face value signals a high price and hence lowers the attractiveness of a coupon promotion. Coupon recipients would even perceive the monetary saving as an expense of service quality (Kim et al., 2008). The dilemma of coupon value effect creates room for the continuous effort on investigating the threshold conditions that qualify its effect (Jia et al., 2018).

While coupon face value implies an economic gain for the consumers, the provision of choice of non-monetary incentive can offer a psychological gain. The dual gains, as opposed to lower face value and lack of choice, should be favorable for most (even not all) consumers. However, the dual gains are costly to suppliers, who should be interested in an equally effective coupon promotion at a lower cost. If offering choices of non-monetary incentive is less costly than a higher face value, suppliers will be interested in whether the choice effect is able to substitute the coupon value effect on attitude towards the coupon promotion and redemption intention.

Economic dogma advocates that monetary incentive is always more effective than nonmonetary incentive with equal market value (Sittenthaler \& Mohnen, 2020). Consistent with this advocacy, Recklitis et al. (2009) found that non-monetary incentive (a USB flash drive) is less effective than monetary incentive ( $\$ 20$ bill) in increasing response rates to survey. Monetary incentive effect was especially salient among male (Sittenthaler \& Mohnen, 2020). But still, adding choice to the non-monetary incentive may elevate its motivation power (Waldfogel, 1993). A meta-analysis evaluated the importance of money and autonomy (with choice and freedom) in shaping personal well-being, and revealed that money was a significant factor but its significance disappeared when autonomy was introduced to the model (Fischer \& Boer, 2011).

The findings shed light to the current research which postulates that coupon value effect can be substituted by choice of non-monetary incentive. Therefore, when choice is provided, the coupon value effect will disappear. However, when choice is lacking, the coupon value effect will remain. The following hypothesis is thus proposed:

Hypothesis 2: Choice of non-monetary incentive moderates the influence of face value on redemption intention through attitude towards the coupon promotion, that is:
(2a) When the choice of non-monetary incentive is lacking, high face value (versus low face value) increases redemption intention through positive attitude towards the coupon promotion; (2b) however, when the choice of non-monetary incentive is provided, face value does not make difference on intention through attitude.

### 2.4 The Moderating Role of Price Consciousness

Price consciousness is a prominent notion in sales promotion research (Palazón \& Delgado, 2009). It is defined as "the degree to which consumers focus on paying low prices" (KukarKinney et al., 2007, p.212). Price-conscious consumers, given their attention to the price, are psychologically engaged with the price and therefore profoundly process any price-related information (Alford \& Biswas, 2002). They engaged in higher levels of information search to obtain the best price (Van Doorn \& Verhoef, 2015). Additionally, they are conscious about the economic and psychological benefits earned from the sales promotion (Kukar-Kinney et al., 2007; Palazón \& Delgado, 2009).

The predictive power of price consciousness on consumer responses has been demonstrated in numerous studies (e.g., Alford \& Biswas, 2002; Campbell et al., 2014; Sinha \& Batra, 1999). Literature also shows a growing scholarly interest in the moderating role of price consciousness on relationships such as the unfavorable pricing error and consumer responses (Bozkurt \& Gligor, 2019), the message content of product search results and clickthrough (Gauzente \& Roy, 2012), and the characteristics of price-matching guarantees and consumer responses (Kukar-Kinney et al., 2007). These empirical evidences indicate high and low price-conscious consumers differ in their responses to marketing stimuli. While prior research verified the moderating role of price consciousness on consumer responses to a single stimulus, its interaction with multiple stimuli has yet to be explored. This knowledge gap is filled by the current study which examines its dynamics with multiple stimuli including monetary incentive and choice of non-monetary incentive in their effects on attitude and redemption intention.

As price-conscious consumers aim for paying a low price, high coupon face value should be favorable. However, the availability (and unavailability) of choice of non-monetary incentive may complicate coupon recipients' evaluation as conspiracy is triggered. The lack of control (i.e., unavailability of choice) is known to trigger conspiracy (Douglas et al., 2017). Without the choice of non-monetary incentive (i.e., the incentive will be predetermined by the supplier), coupon recipients may speculate that the incentive will be something inferior or less popular so that suppliers' loss will be minimized. Then, their attitude will be less favorable. The conspiracy
should be salient among consumers who process the deal intensively, such as high priceconscious consumers (Koschate-Fischer et al., 2018). In other words, for consumers with high price consciousness, the highly positive coupon value effect will be discounted by the lack of choice on non-monetary incentive. For low price-conscious consumers who do not process information comprehensively (Palazón \& Delgado, 2009), the conspiracy will not be triggered but the positive coupon value effect will not be as strong as that for the high price-conscious counterparts. As such, when the choice of non-monetary incentive is not provided, the coupon value effect on attitude is likely to be similar between high and low price-conscious consumers.

On the other hand, if the consumers are given the choice of discount products, the conspiracy will not be evoked. Then, the attitude difference between high and low priceconscious consumers will be explained by the coupon value effect. As price-conscious consumers are sensitive to monetary saving, they will form a positive attitude towards the coupon promotion. By contrast, low price-conscious consumers who roughly process the promotion will not concern much about the saving amount. Taken these rationales together with the positive relationship between attitude and intention, the following conditional moderatedmediation hypothesis is formulated:

Hypothesis 3: Price consciousness moderates the interaction effect of choice of non-monetary incentive and face value on redemption intention through attitude towards the coupon promotion, that is:
(3a) When the choice of non-monetary incentive is lacking, high face value (versus low face value) increases redemption intention through positive attitude towards the coupon promotion across price consciousness levels of consumers; (3b) however, when the choice of non-monetary incentive is provided, the face value effect on intention through attitude exists (disappears) when consumers' price consciousness level is high (low).

To summarize, Figure 1 illustrates the conceptual model and all hypotheses which were tested in three experimental studies respectively (H1, H2, and H3 were tested in Study 1, 2, and 3 respectively).


Figure 1: Conceptual Model

## 3. STUDY 1

3.1 Participants and Procedures

Sixty students from a Hong Kong university ( $71.7 \%$ female) participated in this study in a controlled environment. They were randomly assigned to one of two conditions (thirty each) which were without choice of non-monetary incentive (no-choice condition) and with choice of non-monetary incentive (choice condition) (this variable is named CHOICE afterwards).

The participants were firstly asked to imagine a new sandwich house (i.e., a fast casual restaurant) will be opened in the campus. The campus setting enhanced realism of experimental design as university students were the participants. They received a coupon which will be presented next and were asked to peruse the information on the coupon. Afterwards, the participants were shown a coupon printing the name of sandwich house and the incentives. As participants' preference with a sandwich house may distort their responses to the coupon promotion (Taylor, 2001), a fictitious sandwich house name (OSLY Sandwich) was used. In the no-choice condition, the incentive message prints "buy one sandwich, get one select free drink" (see the left diagram in Figure 2). In the choice condition, the message prints "buy one sandwich, get any one free drink" (see the right diagram in Figure 2). As the participants were Chinese, the incentive messages were printed in Chinese (see Appendix A). After perusing the coupon, the participants were asked to complete the questionnaire.

## OSLY Sandwich

> Buy one sandwich, Get one select free drink

## OSLY Sandwich

Buy one sandwich, Get any one free drink

Figure 2: Conditions in Study 1

### 3.2 Measures

The measure of consumer attitude towards the coupon promotion was borrowed from Nan and Heo (2007). It was a 7-point bipolar scale consisting of three items including negative(1)positive(7), dislike(1)-like(7), and unfavourable(1)-favourable(7) (ATTITUDE). Redemption intention was measured by another 7-point bipolar scale with three items which were unlikely(1)-likely(7), improbable(1)-probable(7), and impossible(1)-possible(7) (INTENTION) (Bailey \& Bonifield, 2010). As intention to use the coupon is higher for consumers who are prone to use coupon (Swaminathan \& Bawa, 2005), coupon proneness was included as a control variable. It was measured by a 7-point Likert-type scale consisting of eight items, anchored by $1=$ strongly disagree and $7=$ strongly agree (PRONENESS) (Lichtenstein et al., 1990). Sample items are "redeeming coupons makes me feel good", "I am more likely to buy brands for which I have a coupon" and "coupons have caused me to buy products I normally would not buy". Additionally, it is likely that frequent sandwich consumers have higher intention to redeem the coupon at the sandwich house, the effect of purchase frequency of sandwich on INTENTION was controlled. Participants were given three purchase frequency options which are "less than
once a month", "once a month", and "more than once a month" (FREQUENCY). Gender (GENDER) effect on intention was also controlled. This is important as participants' genders were not evenly distributed. Furthermore, for manipulation check purpose, participants were asked if they would have choice on the free drink when they use the coupon (1=definitely not; $7=$ definitely yes).

### 3.3 Results

The manipulation was successful as the perceived degree of choice on the free drink was greater in the choice condition than the no-choice condition ( $M_{\text {no-choice }}=2.43 \mathrm{vs} . M_{\text {choice }}=5.77$; $t(58)=8.008, p<0.001)$. The multi-items measures were reliable given that their Cronbach's alpha values were greater than 0.7 (ATTITUDE=0.907; INTENTION=0.948; PRONENESS=0.899). The item scores were averaged to generate the construct scores.

We hypothesized that ATTITUDE mediates the effect of CHOICE on INTENTION. This mediation model was examined using Hayes' (2018) PROCESS Model 4 with 10,000 bootstrapped samples. Using syntax customization, GENDER, FREQUENCY, and PRONENESS were treated as covariates influencing INTENTION.

PROCESS results showed a significantly positive effect of CHOICE on ATTITUDE ( $B=$ 0.711, $S E=0.279, p<0.05$ ). Additionally, ATTITUDE was positively associated with INTENTION $(B=0.475, S E=0.108, p<0.001)$. The direct effect of CHOICE on INTENTION was not significant ( $B=0.259, S E=0.258$, n.s.). We found evidence for a significantly positive indirect effect of CHOICE on INTENTION (Effect $=0.338$ ) given that the $95 \%$ confidence interval (C.I.) did not include zero ( 0.071 to 0.734 ), reflecting the mediation role of ATTITUDE. Therefore, H1 was supported.

### 3.4 Discussion

Coherent with our conjecture in H1, Study 1's results indicated that choice of non-monetary incentives has positive effect on attitude towards the coupon promotion, which in turn resulted in a higher redemption intention. The mediation role of attitude towards the coupon promotion was paramount as there was a lack of direct effect of choice of non-monetary incentive on redemption intention. Although the choice of non-monetary incentive effect was found, we do not know whether its effect is sufficient to offset the coupon value effect as per H2. Moreover, the incentive in this study was free drink. We do not know if the choice effect remains if the incentive is a different product such as sandwich combo. Study 2 therefore changes the nonmonetary incentive and incorporates face value so that H 2 can be examined.

## 4. STUDY 2

### 4.1 Participants and Procedures

One hundred and twenty-four students from a Macao university ( $76.6 \%$ female) were recruited to participate in this study in a controlled environment. A $2 \times 2$ between-subject design was adopted. Choice of non-monetary incentive (CHOICE) and face value (VALUE) were value), and choice and high face value condition (choice high-value). were printed in Chinese (see Appendix B).


No-choice low-value

No-choice high-value

manipulated. Participants were randomly assigned to one of four conditions (thirty-one each) which were no-choice and low face value condition (no-choice low-value), choice and low face value condition (choice low-value), no-choice and high face value condition (no-choice high-

Like Study 1, the participants were told a new sandwich house will be opened in the campus and they receive a coupon which will be presented next. The participants were then shown a coupon printing the name of sandwich house (OSLY sandwich) and the incentive (sandwich combo). In general, a sandwich combo costs 40 Macao dollars. In the low-value conditions, the saving amount was 5 Macao dollars. In the high-value conditions, the saving amount was 15 Macao dollars. The saving amounts were determined after consulting students in the university. In the no-choice conditions, the saving amount was only applicable to a select sandwich combo. By contrast, in the choice conditions, the saving amount was applicable to all sandwich combos. The coupons are presented in Figure 3. As the participants were Chinese, the incentive messages

Choice low-value

Choice high-value



Figure 3: Conditions in Study 2

### 4.2 Measures

The measures of ATTITUDE, INTENTION, GENDER, FREQUENCY, and PRONENESS followed Study 1. Regarding manipulation checks, participants were asked if they would have choice on the sandwich combo which they could buy with the coupon (1=definitely not; 7=definitely yes)-for choice of non-monetary incentive, and if they would be able to save a lot of money if they use the coupon ( $1=$ definitely not; $7=$ definitely yes)-for face value.

### 4.3 Results

The manipulation of choice of non-monetary incentive was successful. First, perceived degree of choice on the sandwich combo was lower in the no-choice condition than the choice condition $\left(M_{\text {no-choice }}=3.47\right.$ vs. $\left.M_{\text {choice }}=5.16 ; F(1,120)=39.02, p<0.001\right)$, but did not vary with the face value conditions $\left(M_{\text {low-value }}=4.31\right.$ vs. $\left.M_{\text {high-value }}=4.32 ; F(1,120)=0.04, n . s.\right)$. Second, the interaction effect was not significant $\left(M_{\text {no-choice low-value }}=3.52 \mathrm{vs} . M_{\text {no-choice }}\right.$ high-value $=3.42 \mathrm{vs}$. $M_{\text {choice low-value }}=5.10$ vs $M_{\text {choice high-value }}=5.23 ; F(1,120)=0.17, n . s$. $)$.

The manipulation of face value also worked as anticipated. First, perceived savings by using the coupon was lower in the low-value condition than the high-value condition ( $M_{\text {low-value }}=4.35$ vs. $\left.M_{\text {high-value }}=5.06 ; F(1,120)=5.70, p<0.05\right)$, but did not vary with the choice conditions $\left(M_{\mathrm{no}}-\right.$ choice $=4.76$ vs. $M_{\text {choice }}=4.66 ; F(1,120)=0.11$, n.s. $)$. Second, the interaction variable was also not a significant predictor $\left(M_{\text {no-choice low-value }}=4.48 \mathrm{vs} . M_{\text {no-choice high-value }}=5.03 \mathrm{vs} . M_{\text {choice low-value }}=\right.$ 4.23 vs $M_{\text {choice high-value }}=5.10 ; F(1,120)=0.29$, n.s. $)$. The multi-item measures were reliable given that their Cronbach's alphas were greater than 0.7 (ATTITUDE=0.906; INTENTION=0.927; PRONENESS=0.809). The item scores were averaged to derive the construct scores.

H2 hypothesizes that ATTITUDE mediates the effect of VALUE on INTENTION when CHOICE is lacking (H2a), but not when CHOICE is provided (H2b). This moderated mediation model was tested using Hayes' (2018) PROCESS Model 7 with 10,000 bootstrapped samples. Like Study 1, this study treated GENDER, FREQUENCY, and PRONENESS as covariates on INTENTION using syntax customization.

Results showed a significant moderating effect of CHOICE on the relationship between VALUE and ATTITUDE ( $B=-0.849, S E=0.398, p<0.05$ ). Moreover, ATTITUDE was positively related to INTENTION $(B=0.654, S E=0.089, p<0.001)$. The direct effect of VALUE on INTENTION was not significant ( $B=0.219$, $S E=0.181$, n.s.). Furthermore, we found evidence for a significant difference in the mediation effect of ATTITUDE at different levels of CHOICE (Index of moderated-mediation $=-0.555$, $95 \%$ C.I. $=-1.140$ to -0.032 ). Specifically, we found a significantly positive indirect effect of VALUE on INTENTION at nochoice condition (Effect $=0.710,95 \%$ C.I. $=0.295$ to 1.176), but an insignificant indirect effect at choice condition $(E f f e c t=0.155,95 \%$ C.I. $=-0.201$ to 0.532 ). Hence, H2 was supported.

To draw deep insights from the data, Figure 4 illustrates the significant interaction of VALUE and CHOICE on ATTITUDE ( $B=-0.849, S E=0.398, p<0.05$ ). CHOICE had effect only when VALUE was low. VALUE exerted effect on attitude in the no-choice but not the choice condition, as of its effects on INTENTION through ATTITUDE confirmed in H2.


Figure 4: Interaction of Value and Choice on Attitude (Study 2)

### 4.4 Discussion

As of Study 1, this study shows that the mediating role of attitude towards the coupon promotion is crucial as the direct effect of face value on redemption intention was not significant. However, the mediating role exists only if there was no choice of non-monetary incentive. In other words, monetary saving was important when choice of non-monetary incentive was lacking; but became trivial when choice of non-monetary incentive was introduced. Therefore, the choice of non-monetary incentive was able to offset the effect of high monetary saving. This finding, however, may vary with consumers' price consciousness, according to our proposition in H3. Study 3 will replicate Study 2, but account for the effect of price consciousness.

## 5. STUDY 3

### 5.1 Participants and Procedures

One hundred and twenty students from a Hong Kong university ( $82.5 \%$ female) participated in this study in a controlled environment. The experimental design followed Study 2. The price of a sandwich combo in Hong Kong is comparable to that in Macao. A $2 \times 2$ between-subject design was adopted. Participants were randomly assigned to one of four conditions (thirty each) which are no-choice low-value, choice low-value, no-choice high-value, and choice high-value.

### 5.2 Measures

The measures of ATTITUDE, INTENTION, GENDER, FREQUENCY, and PRONENESS followed the previous two studies. The manipulation check items also followed Study 2. Price consciousness (CONSCIOUSNESS) was measured by a 7-point Likert-type scale with four items used by Ramaswamy and Srinivasan (1998). Sample items were "I shop a lot for specials" and "A person can save a lot of money by shopping around for bargains".

### 5.3 Results

The manipulation of CHOICE was successful. First, the perceived choice was lower in the no-choice condition than the choice condition $\left(M_{\text {no-choice }}=3.32 \mathrm{vs} . M_{\text {choice }}=4.62 ; F(1,116)=\right.$ $18.58, p<0.001$ ), but did not vary with the face value conditions ( $M_{\text {low-value }}=3.95 \mathrm{vs} . M_{\text {high-value }}=$ $3.98 ; F(1,116)=0.01$, n.s. $)$. Second, the interaction variable was not a significant predictor ( $M_{\mathrm{no}}$ choice low-value $=3.37$ vs. $M_{\text {no-choice high-value }}=3.27$ vs. $M_{\text {choice low-value }}=4.53 \mathrm{vs} M_{\text {choice high-value }}=4.70$; $F(1,116)=0.20$, n.s. $)$.

The manipulation of VALUE was also successful. The perceived savings was lower in the low VALUE condition than the high VALUE condition $\left(M_{\text {low-value }}=3.80\right.$ vs. $M_{\text {high-value }}=4.50$; $F(1,116)=6.81, p<0.05)$, but did not vary with the choice conditions ( $M_{\text {no-choice }}=4.20$ vs. $M_{\text {choice }}$ $=4.10 ; F(1,116)=0.14$, n.s.). Moreover, the interaction effect was not significant ( $M_{\text {no-choice low- }}$ value $=3.87 \mathrm{vs} . M_{\text {no-choice high-value }}=4.53 \mathrm{vs} . M_{\text {choice low-value }}=3.73 \mathrm{vs} M_{\text {choice high-value }}=4.47 ; F(1,116)$ $=0.02$, n.s.). The multi-items measures were reliable given that the Cronbach's alphas were greater than 0.7 (ATTITUDE $=0.913$; INTENTION $=0.947$; PRONENESS $=0.876$; CONSCIOUSNESS=0.876). The item scores were averaged to derive the construct scores.

To test H3, we examined a conditional moderated-mediation model using Hayes' (2018) PROCESS Model 11 with 10,000 bootstrapped samples and syntax customization. CONSCIOUSNESS was the second moderator that affects the mediator (ATTITUDE). Results showed a significant three-way moderated-mediation (Index of moderated moderated-mediation $=0.480,95 \%$ C.I. $=0.049$ to 0.889 ). The inferential tests of indirect effect at percentiles allow probing of the moderated-mediation. We found significant moderated-mediation effects at $16^{\text {th }}$ percentile (CONSCIOUSNESS $=4$, Index $=-0.994,95 \%$ C.I. $=-1.596$ to -0.479 ) and $50^{\text {th }}$ percentile (CONSCIOUSNESS $=5$, Index $=-0.514,95 \%$ C.I. $=-0.962$ to -0.143 ), but nonsignificant effect at $84^{\text {th }}$ percentile (CONSCIOUSNESS $=6$, Index $=-0.034,95 \%$ C.I. $=-0.717$ to 0.531). Moreover, ATTITUDE was positively related to INTENTION $(B=0.653, S E=0.072$, $p<0.001$ ) whilst the direct effect of VALUE on INTENTION was also positively significant ( $B=$ $0.403, S E=0.152, p<0.01$ ).

By further analyzing the data, a significant three-way moderating effect (VALUE x CHOICE x CONSCIOUSNESS) on the ATTITUDE ( $B=0.736, S E=0.300, p<0.05$ ) was found. Figure 5 illustrates the results of floodlight analysis (Spiller et al., 2013). The VALUE x CHOICE interaction effect on ATTITUDE was statistically significant at CONSCIOUSNESS level below 5.194 (i.e., the $95 \%$ C.I. did not include zero), and above which the effect became non-significant. Figure 6 illustrates the changes of interaction effects across CONSCIOUSNESS levels of $16^{\text {th }}, 50^{\text {th }}$ and $84^{\text {th }}$ percentiles. The interaction effects were significant when CONSCIOUSNESS were equal to 4 ( $16^{\text {th }}$ percentile: Effect $=-1.524, p<0.001$ ) and $5\left(50^{\text {th }}\right.$ percentile: Effect $=-0.788, p<0.05$ ), but not when CONSCIOUSNESS was equal to $6\left(84^{\text {th }}\right.$ percentile: Effect $=-0.051$, n.s.). When CHOICE was unavailable, VALUE has positive effect on attitude across levels of price consciousness so that H3a was supported. However, when CHOICE was provided, the positive VALUE effect on attitude was significant at CONSCIOUSNESS levels of 5 and 6, but not significant at the level of 4 (i.e., H3b was
supported). In other words, the interaction effects of VALUE, CHOICE, and CONSCIOUSNESS on ATTITUDE which then influences INTENTION lend support to H3.


Note.: Area with diagonal strips indicates the statistically significant region
Figure 5: Results of Floodlight Analysis (Study 3)


Figure 6: Interaction of VALUE and CHOICE on ATTITUDE by CONSCIOUSNESS (Study 3)

### 5.4 Discussion

The significant moderated-mediation at certain levels of price consciousness provided additional support to the inclusion of attitude towards the coupon promotion as a mediator, albeit the direct effect was significant in this study. Irrespective of consumers' price consciousness levels, when choice of non-monetary incentive was lacking, monetary saving was essential in evoking intention to redeem the coupon because of the positive attitude towards the coupon promotion. Monetary saving became trivial when choice of non-monetary incentive was introduced for the low price-conscious consumers, but the importance of monetary saving remained for the high price-conscious consumers. According to the results of floodlight analysis, a price consciousness level of 5.194 was the point that distinguished low price-conscious consumers from their high price-conscious counterparts.

## 6. GENERAL DISCUSSION AND IMPLICATIONS

### 6.1 Discussion of Findings

Although coupon has a long history, it has remained a pervasive sales promotion tool to attract first-time customers and to boost revenue, especially for fast casual restaurants. Monetary saving is an essential incentive to induce redemption but is costly to the suppliers. This study proposes the provision of choice of non-monetary incentive as an additional incentive to offset the positive effect brought by high monetary saving or coupon face value, so that the literature about sales promotion is enriched and fast casual restaurant operators are provided with additional insights in their design of coupon promotion.

The findings drawn from three experimental studies consistently indicate that consumers favored a coupon promotion featuring choice of non-monetary incentive, while their redemption intention was increased. The choice effects reflect the importance of increasing consumers' decisional control (Hui \& Bateson, 1991) and empowering them (Wathieu et al., 2002) in motivating their actions. The psychological benefit derived from having freedom to choose nonmonetary incentive even substituted the coupon value effect to an extent that the restauranteurs can lower the face value by $66.7 \%(\$(15-\$ 5) / \$ 15)$ in the context of this study. While monetary incentive is generally more effective than non-monetary incentive (Sittenthaler \& Mohnen, 2020), giving consumers a choice leverages the value of non-monetary incentive.

Our findings in Study 3 show that the substitution effect of choice of non-monetary incentive was contingent on price consciousness of consumers. Without the choice, high coupon face value is equally appealing for both low and high price-conscious consumers. Although high price-conscious individuals particularly favor high coupon face value, their favorable attitude might be lowered by their conspiracy belief that the non-monetary incentive is inferior and less popular so that suppliers' cost will be minimized. By contrast, the conspiracy belief is not applicable to low price-conscious consumers who intuitively favor the coupon with higher face value, but their favorable attitude would not be as strong as that for the high price-conscious counterparts.

On the other hand, when consumers were given the choice of non-monetary incentive, conspiracy belief would not be salient. The coupon value effect had a predominant role. High
face value together with choice represent dual benefits which should be highly appealing to price-conscious consumers as they consider both economic and psychological benefits in evaluating a promotion (Kukar-Kinney et al., 2007; Palazón \& Delgado, 2009). However, the coupon value effect was not important to the low price-conscious consumers who just roughly process the promotional cues. Although the conspiracy belief provides a reasonably theoretical explanation for the moderating role of price consciousness, empirical examinations have yet to be conducted.

In line with the Elaboration Likelihood Model (ELM), stimuli on the coupon shaped consumers' attitude towards the promotion which in turn influenced redemption intention (Ajzen, 1991). The mediating role of attitude is essential in Studies 1 and 2 given the non-significant direct effect from stimulus to intention. Although the direct effect was significant in Study 3, the mediating role of attitude remained. As such, the inclusion of attitude towards the coupon promotion is necessary in future research.

### 6.2 Theoretical Contributions

This study contributes to the consumer research and hospitality scholarship in four aspects. First, our exploration of the choice of non-monetary incentive effect on consumer responses enriched the sales promotion literature while its significance started a research stream for further investigation with other situational and personal variables. Second, offering choice of nonmonetary incentive as a substitute of monetary saving sways the advocacy of "cash is king". While monetary incentive has long been considered as more effective than non-monetary incentive in triggering behavior, adding choice leverages the value of non-monetary incentive, which lends credence to the significance of decisional control for people. Third, while price consciousness is a significant individual characteristic that distinguishes consumer responses to marketing stimuli, our findings of its dynamics with multiple stimuli (i.e., coupon face value and choice of non-monetary incentive) enrich the existing literature which focused on its dynamics with a single stimulus. Finally, while there is a plethora of coupon research, its footprint is limited in the hospitality literature albeit coupon is pervasive in hospitality industry. This coupon research enriches the hospitality literature.

### 6.3 Managerial Implications

Coupon promotion has been widely adopted in the fast casual restaurant sector, especially during economic recession. According to a recent survey, use of coupon and opt for less expensive restaurants are consumers' priorities after COVID-19 (Klein, 2020). However, the provision of monetary saving is costly to the restauranteurs. This study provides insights on the alternative offer which is as effective as monetary saving in coupon promotion. The implications may help restaurants recover faster from the pandemic by effectively using coupons as a promotional tool.

Given the substitution effect of choice of non-monetary incentive, fast casual restaurateurs are recommended to allow coupon recipients to choose the non-monetary incentive if the cost of
this practice is low, especially if the cost is lower than offering a high coupon face value. Although the experiments were conducted in the context of coupon promotion by sandwich house, the implications should also be applicable to other sales promotion methods and similar type of restaurant. For example, some coffee shops hang promotional banners adjacent to their glass windows to attract passengers to buy their products. They are recommended to let customers choose the discounted products and highlight the choice offer on the banner. However, in their provision of choices, practitioners should not be too extreme because too many choices will increase the opportunity costs of consumers for sacrificing other options (Broniarczyk \& Griffin, 2014).

As the substitution effect of choice of non-monetary incentive is salient among low priceconscious consumers, they should be the target for the promotion featuring low monetary saving and choice of non-monetary incentive. According to Henkel et al. (2018), price-sensitive consumers favor thrift-oriented brands. Restauranteurs are recommended to distribute their "lowvalue plus choice" coupons at a location far away from thrift-oriented retailers such as the dollar stores and discount stores, but at a location near to retailers which do not target thrifty shoppers. Accordingly, if the coupons are clipped from magazines, restauranteurs are not recommended to print the coupons on magazines that target thrifty readers. It is noteworthy that low priceconscious consumers are not necessarily insensitive to price as the floodlight analysis reported a cutoff point at the price consciousness level of 5.194 . Consumers whose price consciousness level below that critical point should be the target recipients of "low-value plus choice" coupons. In other words, slightly price-conscious consumers are also the target segment.

Given that the findings were theoretically grounded and that coupon promotion is widespread across industries such as grocery, fashion, entertainment, personal care, and others (Pandey \& Maheshwari, 2016), we recommend practitioners in these industries to seriously consider the above implications which may benefit their bottom line.

## 7. LIMITATIONS AND FUTURE RESEARCH

The implications of this study should be considered with some limitations. First, data were obtained from young participants which might have distinct behavior pattern. Generalizing the findings to general population needs to be conducted with special caution. Future research should replicate this experiment with a more heterogeneous sample group. Nonetheless, as this study focused on fast casual restaurants, the implications should be relevant as young consumers are their major market segment. Second, the monetary saving was manipulated by saving $\$ 5$ and $\$ 15$. We do not know if the conclusions were robust against different saving amounts given that inversely U-shaped relationship between coupon face value and redemption was revealed in prior study (Jia et al., 2018). Future research should examine additional saving amount levels so that the optimal solution can be obtained. Third, while we address the findings to consumers' conspiracy belief, our arguments lack support from the data, leaving an important gap to be filled by future research.

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Choice low－value


No－choice high－value

## OSLY Sandwich

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