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"The Battle of The Expert and The Star: A Comparison Study of Key Opinion Leaders and Celebrities Endorsement Effectiveness On Purchase Intentions"

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Introduction

In the last few years, there has been a growing interest in the new era of media such as YouTube, Facebook and Instagram. These new forms of media differ from traditional media such as television, radio and newspaper. Progress plays an important role in the rise of new public figures on the media landscape for instance bloggers, video bloggers ('vlogger'), and Instagram influencers. These social media creators gained fans, who are called followers or subscribers. The decline of the traditional celebrity in social media marketing is evidenced by Nielsen Company's survey in 2011 which indicates that 20% of women social media users are motivated to consider products or services that are promoted by a well-known blogger, despite the fact only 13% of women are influenced by celebrity endorsement. As reported by this survey, 53% of the United States' female blog readers have been influenced to make a purchase as a result of blog recommendations. Another survey led by Variety (2014) demonstrates that YouTube vloggers secured more likes than traditional celebrities, in which 10 out of 20 YouTube vloggers surveyed managed to lead in a popularity score.

Quite recently, considerable attention has been paid to the advancement of technology where consumers tend to become more information-savvy. At the present time, people are more critical on any circulated information and are neither easily controlled nor manipulated. Consequently, as opposed to simply accepting any form of advertising and endorsement, consumers have a tendency to put more trust on a figure that appears to be similar or related to them. This study aims to give a comprehensive account on the effectiveness of key opinion leaders on motivating the consumer attitude and purchase intention. There are still some interesting problems to be addressed in which previous studies do not take into account gender choice, quantitative experiment method for data collection and identifying the comparison of these two types of endorsement in different types of goods such as search and experience goods. Hence, the objective of this research is to propose a new technique on selecting the appropriate endorser for an organization, considering that the right decision will be directed to an effective budget and resource allocation.

Research question: How do key opinion leaders motivate consumer purchase intentions in search and experience goods compared to celebrities for both men and women?

Literature Review

Opinion Leadership and Its Characteristics

Rogers & Cartano (1962), King & Summers (1970), and Flynn et al. (1996) described opinion leadership as one's behavioral tendency and ability to influence the purchase decisions of others. Another description is portrayed where opinion leaders are defined as the individuals with a wide set of personal connections, who play key influential roles (Weimann, 1994), and who are considered as both a source and guide (McQuail & Windahl, 1993). Nisbet & Kotcher (2009) indicate that the significance of opinion leaders relies neither on formal power nor prestige, but instead on their ability to serve as the connective communication tissue that alerts their peers to what matters among political events, social issues, and consumer choices. Opinion leadership is derived from the two-step flow theory (Katz & Lazarsfeld, 1955), which states that certain people are recognized as opinion leaders who interpret media information that they receive, pass it on to others, and increase its influence accordingly. In Katz (1957, p.73) it was shown that the dimensions of opinion leaders are based on three common characteristics and behaviors: personification of certain values (who one is); competence (what one knows); and strategic social location (whom one knows). The first dimension relates to the traits and values of opinion leaders. Meanwhile, competence expresses opinion leaders' level of expertise on certain subjects, and finally, social location concerns the size of their network and particularly the

number who value their leadership in the particular area of expertise. As reported by Cascio (2003) and Carson (2007), opinion leaders play an important role in improving communication and encouraging group members in order to have a greater level of information exchange. Superior status, education, and social prestige enable them to influence their followers, which are significant elements to create a connected community and best group performance.

The focus of numerous research has been on several characteristics of the opinion leaders. Merwe & Heerden (2009) found that an opinion leader could be identified as the leader or people with influence in a certain community, where an opinion leader is the person with higher structural position in the community. Secondly, opinion leaders have a tendency to have familiar and personal involvement in the product categories (Chan & Misra, 1990), as well as an expertise on the products (Jacoby & Hoyer, 2001). High level of product category involvement and loyalty has been observed to be a strong determinant for opinion leadership. Opinion leaders relationship with innovativeness has been found to be stronger compared to a three-dimensional exploratory behavior construct (i.e. new brand trial, information, and cautiousness). Additionally, opinion leaders were viewed to have a need to become users of new products or brands (Ruvio & Shoham, 2007).

According to the aforementioned two-step flow communication theory, instead of having a general and direct effect, opinion leaders who decode messages and mediate the transmission of information through many group interactions, also filter messages disseminated by mass media (Flynn, Goldsmith & Eastman, 1996). This effect requires reinterpretation of related theories of information flow and influence. In the meantime, brands have noticed the power of opinion leaders to directly influence their connected networks by making suggestions, which result in the search for, purchase of, and use of products. Attributable to the characteristics of social media,

based on consumer-to-consumer dialog, it is difficult for brand managers to shape the conversation directly. Nevertheless, they have the opportunity to influence their target market by utilizing opinion leaders as intermediaries within a brand directed at consumers, given that this intermediary role fits with the two-step flow of communication (Katz & Lazarsfeld, 1955). After observing what companies can obtain from opinion leaders, practitioners seek to benefit from their popularity, perceived credibility (Schmallegger & Carson, 2008) and expertise (Droge, Stanko & Pollitte, 2010; Wagner & Bolloju, 2005).

Related to the product type and choosing the right person to endorse it, several studies found that the greater effectiveness of a particular type of endorsement (celebrity or expert) depends on the type of product being advertised. For more involved, durable, higher priced, or high technology-oriented products, expert endorsements are likely to have stronger effects than celebrity endorsements (Biswas et. al., 2006). This is supported with the fact that with highpriced or more technology-oriented items to be expected to have greater levels of involvement with the product purchase, hence the internalization process will be more effective than mere identification (Kelman, 1961; Petty, Cacioppo, and Schumann, 1983). Beside high and lowpriced classification, product type can be classified into either search goods or experience goods. Search goods refer to the products whose quality can be easily estimated based on productrelated information even before purchase (Nelson, 1970, 1974), such as calculators (Senecal & Nantel, 2004), computer printers (Weathers, Sharma, & Wood, 2007), and vitamin pills (Suwelack, Hogreve, & Hover, 2011). On the other hand, experience goods refer to the products whose quality is difficult to assess before direct experience, such as video games (Mudambi & Schuff, 2010), mattresses (Weathers et al., 2007), and wine (Senecal & Nantel, 2004). Studies have documented differential effects of online reviews for each product type. For example, participants were more likely to select the product recommended by others when choosing an

experience good (wine) than a search good (calculator) (Senecal & Nantel, 2004) and negative e-WOM had a greater effect on the participants' purchase intention of experience (language school program) than search goods (TOEIC book) (Park & Lee, 2009). Similarly, Huang *et al.* (2009) analyzed actual browsing and transaction records of more than 50,000 households in the United States and found that the presence of consumer feedback increased purchase intention, and such effect was greater for experience than search goods.

Henceforth, this research will examine the possibility that the effect of key opinion leader's characteristics on its characteristics might vary depending on the product type (search or experience goods). According to the elaboration likelihood model (ELM), heightened motivation leads people to examine the message more carefully (Petty, Cacioppo, & Schumann, 1983; Petty & Cacioppo, 1984). Therefore, since consumers rely more on others' product reviews for experience than search goods, or rely more on expert's opinion for high-priced than low-priced product, they tend to elaborate more on review messages and key opinion leader's statement when evaluating experience or high-priced goods.

Corresponding the abovementioned theories, the first hypotheses are:

H1: Key opinion leaders' (a) perceived professional knowledge, (b) familiarity, (c) fame,(d) innovativeness, and (e) source of credibility are seen as more effective, as compared to celebrities, for experience good.

Prior researches have correspondingly found comparable characteristics between key opinion leader and celebrity, such as familiarity (Kamins, 1990; Misra and Beatty, 1990), fame (Cooper, 1984; Miciak & Shanklin, 1994), innovativeness (Lafferty *et. al.*, 2005) and source of credibility (Dholakia and Stemthal, 1977; Hovland, *et. al.* 1953; Hovland and Weiss, 1951;

Ohanian, 1991; Solomon, 1996). The term '*celebrity*' refers to a well-known individual, for example actors, sport persons, entertainers, and others for their achievements in their respective areas (Friedman and Friedman, 1979). McCracken (1989) defines that celebrity endorsement as any individual who enjoys public recognition and uses this recognition by appearing in an advertisement. They have the potential to enhance audience attentiveness, make the advertisement more memorable, credible, and desirable, along with building a glamour impression for the endorsed product (Spielman, 1981). Celebrity endorsement is considered as a valuable asset to obtain consumer awareness, which could lead to purchase intention and profit towards the companies.

In spite of the benefits, there are several things that need to be noticed related to celebrity endorsement use. According to Kelman (1961), when the source model of a communication is a celebrity, the consumer's attitude change occurs through the process of identification. Identification occurs when an individual attempt to establish or maintain the identity associated with a celebrity endorser (Kelman 1961). The identification process brought by celebrity endorsements is more effective when the consumer is only peripherally processing the information presented for a product. In such a scenario, the various cues associated with the object or context (such as the celebrity endorser) exerts maximum influence (Sengupta, Goodstein, and Boninger 1997). However, this would not be the case for high technologyoriented or experience products. There is indirect support for this argument in the work of Petty, Cacioppo, and Schumann (1983), in which they found that when an advertisement concerned a product of low involvement, the celebrity status of the endorser had a strong influence on consumer perceptions and attitudes. For low-technology products, the peripheral cue (i.e., the celebrity endorser) would have some effect, and would therefore attenuate the stronger effects of expert endorsers.

Therefore, after observing the arguments above, the second hypotheses are:

H2: Celebrities' (a) perceived professional knowledge, (b) familiarity, (c) fame, (d) innovativeness, and (e) source of credibility are seen as more effective, as compared to key opinion leader, for search good.

Purchase Intention

Ostrom (1969) and Bagozzi *et al.* (1979) indicate that purchase intentions are personal action tendencies relating to the brand, in which intentions are distinct from attitudes. Whereas attitudes are summary of evaluations, intentions represent the person's motivation in the sense of his or her conscious plan to exert effort to carry out a behavior (Eagly & Chaiken, 1993). Thus, a concise definition of purchase intentions may be as follows: purchase intentions are an individual's conscious plan to make an effort to purchase a brand (Spears & Singh, 2004).

One of the first examples of how online word of mouth (e-WOM) affects purchase intention is presented in Bao & Chang (2014), in which opinion leaders drive product sales as a result of their product experience and product knowledge. Further findings are described in Chen & Xie (2008) and Sun (2012), where consumers habitually communicate their brand satisfaction level by owning online user ratings. In this works and related references, it was observed that positive ratings could improve consumers' attitude, while negative public ratings can worsen it (Liu, 2006). A study by Meng (2016) found that opinion leader's professional knowledge, product involvement, interactive, functional value, emotional value influence purchase intention virtually via trust. Simultaneously, opinion leader's professionalism, product involvement and visual clue impact purchase intension directly. The results of the study by Gupta & Kishore (2015) revealed that attractiveness and trustworthiness of a celebrity endorser have a significant

impact on consumers' purchase intention in the case of Indian consumers. In this research, the effect of attractiveness and trustworthiness on purchase intention will be tested.

There are several studies that compared the effectiveness of celebrity endorsement and opinion leader towards consumer's attitude and purchase intention, for instance Wei & Lu (2013). The study found that a product (especially search good) endorsed by a celebrity in an advertisement evoked significantly more attention, desire, and action from the consumer than did an online customer review (opinion leader). However online customer reviews emerged higher than the celebrity endorsement on the scale of participants' memory, search and share attitudes toward the another kind of product (experience good). A study by Kwon & Song (2015) found that opinion leaders actually played a major role in influencing the decisions of passive audiences. Based on 20 dissertations about market mavens (a broader type of opinion leader), consumer are often likely to consider the opinion of market mayens before making any purchase decisions. The previous studies above also align with study conducted by Djafarova & Rushworth (2017), which found that celebrities on Instagram are influential in the purchase behaviour of young female users. This study argues that non-traditional celebrities such as bloggers, YouTube personalities and 'Instafamous' profiles are more powerful, as participants regard them as more credible and are able to relate to these, rather than more traditional, celebrities. These findings could be the reason of why do companies see for ways to utilize influencers to generate interest, drive action, create goodwill, establish expertise, and create dialog with their online stakeholders (Gardner, 2005), rather than focusing solely on traditional media. Nowadays companies think that publicity by potential influencers in online landscape combined with a strategic, effective, and sustainable management of key opinion leaders are essential in building brand's success story.

There are several research gaps from previous studies that needed to be explored further. There are research needs to explore Instagram in relation to brand recall, visual communication, use of figurative language within the images portrayed and viewer participation and also conducting an analysis of the factors which influence different social media usage across genders, in particular, investigation into source credibility and self-esteem of consumers. It is also essential to consider moderating influences of age and gender and also the impact of celebrity endorsement on products with varying product involvement levels. Another study proposes future research to examine multiple celebrities and non-celebrities in advertisements and online customer reviews. They also suggest to study different age groups, gender effect, other nationality and other product classes. Another study proposes future study to conduct another meta-analysis study with more samples, also adding the role of gender on the final results and focus on a specific industry or product line.

Therefore, from the theories and research gaps described above, the third and fourth hypothesis will be:

H3: (a) Professional knowledge, (b) familiarity, (c) fame, (d) innovativeness, (e) source of credibility will affect purchase intention more positively for key opinion compare to celebrity.

H4: Key opinion leader will lead to a higher purchase intention compare to celebrity.

The Influence of Gender

Social role theory of gender (Eagly 1987) states that societally defined gender roles and associated normative expectation towards males and females cause gender differences regarding behavior and preferences (Athensteadt et al. 2009, p. 399). These differences can be observed from some aspects, for example product choice (Worth et al. 1992). Scholars also posit that

individuals' information processing patterns may differ across genders (e.g., Putrevu, 2001) and for a long time, gender has been assumed to moderate the effects of communication tools, including advertising (Holbrook, 1986). The selectivity hypothesis is an important perspective that explains why females and males respond differently when they process information (Richard, Chebat, Yang, & Putrevu, 2010). This perspective refers to females as comprehensive processors and males as selective processors (Meyers-Levy & Stemthal, 1991). Comprehensive processors suggest that females are inclined to treat all pieces of information equally and integrate the information comprehensively. On the other hand, selective processors convey the tendency of males to process information selectively. Males prefer to process the information that they are most interested in and believe to be important. The selectivity hypothesis postulates that females may have a lower information elaboration threshold than males (Meyers-Levy & Stemthal, 1991; Richard et al., 2010). Scholars have been applying the selectivity hypothesis to explain why females may be easier to perform systematic processing than males under similar information processing circumstances (e.g., Kempf, Laczniak, & Smith, 2006; Kim, Lehto, & Morrison, 2007; Noseworthy, Cotte, & Lee, 2011).

According to the selectivity hypothesis (Meyers-Levy & Stemthal, 1991; Richard et al., 2010), it could be argued that female consumers may have a higher tendency to perform systematic processing than male consumers. In the context of this study, female consumers may be more likely to have more affected by the information they received from key opinion leader. From this perspective, we expect that female consumers are easier to engage in any message distributed from key opinion leader, making their newly formed emotional trust (i.e., trusting attitude) more accessible and consistent. Thus, the relationship between key opinion leader and

purchase intention may be stronger for females than males. Following these theories and findings, the last hypothesis is:

H5: The relationship between key opinion leader and purchase intention will be stronger for female consumer than male consumer.

To summarize the hypotheses altogether, below is the detailed figure of the model.

-- Figure 1 about here --

Methodology

Method

The current study objective is to examine the effects of key opinion leaders on the consumers' purchase intentions for search and experience goods by using gender as moderator. To answer this objective, 5 hypotheses are proposed, and an experimental survey method will be applied to test these hypotheses. Bhattacherjee (2012) defined experimental technique as "the design where one or more independent variables are manipulated by the researcher (as treatments), subjects are randomly assigned to different treatment levels (random assignments) and results of the treatments on outcomes (dependent variables) are observed" (2012, p. 83). The goal of the experimental research is to examine cause-effect relationships, which is the unique strength of the method. Experimental design helps to ensure internal validity, but sometimes at the expense of external validity making the results not applicable to a larger population. The experiment implies random assignments of respondents to control and treatment conditions, comparing the judgments and answers of the respondents in the treatment group to those in the

control groups reveals the causal effects under the investigation (Gaines et al., 2007). This section will explain the research design, population and sample, measures and data collection.

Research design

Based on the formulated research questions and hypotheses, research design was conducted between the groups. It consists of three experimental groups; control group, first treatment group with key opinion leaders, and second treatment group with celebrities. The control group, received two advertisements (Adidas shoes for search good and Samsung phone & Lancôme cosmetic for experience good) without any profile endorsement. The first treatment group also received two advertisements from search and experience goods with key opinion leaders endorsing the products (Kayla Itsiness and Mat Fraser endorsing Adidas shoes, Michelle Phan endorsing Lancôme, and Marques Brownlee endorsing Samsung). The second treatment group received the same amount and type of advertisements but with a celebrity as the endorsement (Rita Ora and Kanye West endorsing Adidas shoes, Emma Watson endorsing Lancôme, and Justin Bieber endorsing Samsung). All eight figures (Kayla Itsiness, Kanye West, Mat Fraser, Michelle Phan, Rita Ora, Emma Watson, Justin Bieber, and Margues Brownlee) were selected based on their professional knowledge, familiarity, fame (regarding the total followers they have), innovativeness and source of credibility. Each figure has their own specialties which are related to the product advertised such as Kayla Itsiness, as the most followed fitness personal trainer on Instagram (9.9 Millions followers), was representing Adidas advertisement and Marques Brown, as the most followed gadget and electronic device reviewer on Youtube (6.4 Millions subscribers), was representing Samsung advertisement.

-- Table 1 about here --

Prior to the main experiment, a pre-survey was conducted to explore the most influential key opinion leaders for the population so that the stimuli used in the main experiment will be valid and relate to the respondents. A sampling procedure, a probability sampling in which each element has a known probability of being included in the sample, (Kothari, 2004) was used. Recruitment of the participants was done through the snowball sampling and followers database of the key opinion leaders and the celebrities.

First, the online questionnaire was disseminated through SocSci website. As described previously, there are three experimental groups (control, KOL and celebrity group). The control group received two stimuli for search and experience goods without any endorsement. The KOL group received stimulus with key opinion leaders as the endorser for search and experience goods and so did the celebrity group with celebrities as the endorser. The questionnaire consists of three parts. In the first part, respondents were asked for demographic information such as gender, age, educational background, income, and nationality. Then social media usage was also asked to find out respondents behavior about the type of social media they use, how often and the purpose of using it. The last part is the stimuli part, where the hypotheses are tested. Each respondent got two stimuli from search and experience goods. The gender of the endorsement varies based on the gender of the respondents. There is no time limit to complete the questionnaire. The average time for the respondent to complete the questionnaire is around 5 - 10 minutes. The collected data from SocSci Survey website was imported and analyzed with IBM SPSS Statistic Version 24.

Data Collection and Participants

There were 419 total respondents collected for this study and 400 cases were used for the final analysis. Respondents were collected by using snowball sampling from social media behavior and their celebrity preferences as the selection criteria. The data collection was focused on respondents aged from 18 - 29 years old because it was concluded that those in the selected age groups were the most common users of social media (Smith & Anderson, 2018). The sample was drawn from a mixture of high school and university students, and young professionals. The educational backgrounds vary from high school graduates (27.3%), diploma and bachelor's degree graduates (55.3%), master's degree graduates (16.3%), and Ph.D graduates (0.8%). Almost all respondents use more than one kind of social media (84.5%) with an average of three social medias being used by each respondent. Facebook and Instagram are used by most of the respondents (Facebook 82% and Instagram 86%), while only half of the respondents have a Youtube account (56%), 36.3% of the respondents have Twitter, and 19.3% have some other kind of social media such as LinkedIn, Snapchat, Line, Pinterest and many others. The social media usage frequency of the respondents is considered to be high. 74.9% of the respondents use social media almost everyday and 54.5% of the respondents visit their favorite social media site around 2-5 times/ day. The purpose of using social media is mainly to upload music/ pictures/ videos (22%) and to keep in contact and share experiences with friends (17.7%).

Measures

Based on the research question, hypotheses and model that were formulated, there are several key variables that needed to be measured.

Independent Variable

Since the purpose of this study is to identify the differences between key opinion leaders and celebrities, the independent variable consisted of the experimental groups (control, KOL and celebrity group).

Dependent Variable

Professional Knowledge

To evaluate professional knowledge, six indicators (Netemeyer and Bearden, 1992) are used. For these indicators, respondents had to put a score from 1 (strongly disagree) until 5 (strongly agree). The indicators are knowledgeable, competent, expert, trained, experienced, informed. The indicators are found to be reliable ($\alpha = 0.88$).

Familiarity

The familiarity level of the respondents towards the KOL or celebrity is measured by four indicators (Chan and Misra, 1990; Miciak & Shanklin, 1994). These indicators are also measured with scores from 1 (strongly disagree) until 5 (strongly disagree). The three indicators are "I recognize the celebrity/ KOL", "I like the celebrity/ KOL", "the celebrity/ KOL seems friendly to me", and "the figure seems familiar to me". The reliability index for these indicators is considered high ($\alpha = 0.86$).

Fame

To measure the fame level of the KOL or celebrity, seven indicators are used (Li, 2007; Bansal, 2000, Maltby et al.'s, 2008). The indicators are measured by 5-point semantic scale, from 1 (strongly disagree) until 5 (strongly agree). The seven indicators are "ambitious", "always seek

to compare to others", "attention seeking", "conceitedness", "social access", "psychological vulnerability", "glamour". The reliability scale for this variable is high ($\alpha = 0.815$).

Innovativeness

Innovativeness of the KOL or celebrity is measured by four indicators Rogers & Shoemaker, 1995. Semantic scale from 1 (strongly disagree) until 5 (strongly agree) is also used to measure this variable. The indicators are "I often seek this person's opinion about some issues that is currently happening", "this person often try new ideas", "his/ her way of thinking is creative and original", and "he/ she is the leading figure for the field". The reliability scale for this variable is also considered high ($\alpha = 0.815$).

Credibility source theory

As described by Hovland et al., 1953; Ohanian, 1991; Erdogan, 1999, credibility source are consisted of three aspects: expertiseness, trustworthiness, attractiveness. Based on previous researches which used credibility source theory, this variable can be measured by semantic scale with 12 different scales: "honest/dishonest", "reliable/unreliable", "sincere/insincere", "trustworthy/untrustworthy", "attractive/unattractive", "classy/not classy", "beautiful/ugly", "elegant/plain", "expert/not an expert", "experienced/inexperienced", "knowledgeable/unknowledgeable", "qualified/unqualified". The indicators are found to be reliable ($\alpha = 0.94$).

Purchase Intention

To measure this variable, respondent had to describe their feeling by filling out four statements (Abelson et al. 1982; Edell and Burke 1987, p. 423). Semantic scale is used to measure the statements: "1 = Definitely do not intend to buy it -5 = definitely intend to buy it", "1 = Very low purchase interest -5 = high purchase interest", "1 = Definitely not buy it -5 = definitely buy it", "1 = Probably not buy it -5 = probably buy it". The indicators show a high reliability scale (α = 0.88). The mean and standard deviation comparison of each variable from three experimental groups are summarized below.

-- Table 2 about here --

The central tendencies number (coding was 1 for strongly disagree and 5 for strongly agree) show that the advertisements endorsed by KOL have a higher rating score compare to the advertisements with celebrity endorsement and without endorsement. KOL also has better evaluation in terms of professional knowledge, credibility source theory and purchase intention, while celebrity outperforms KOL in terms of familiarity, fame, and innovativeness. To identify whether the higher rating in KOL or celebrity group was caused by the different advertisement in every group, more elaborate analysis such as regression and PROCESS macro (Hayes, 2013) in SPSS Statistics 24 are discussed in the results part.

Manipulation Checks

To ensure that the stimulus (advertisement with and without endorser) assigned in each group effectively presents different impacts, a manipulation check test needs to be conducted. For this study, an ANOVA test on the dependent variables was performed to see the mean differences from each group. Based on the ANOVA results on the dependent variable "professional knowledge", it was shown that the manipulation check was statistically significant (F[1,264] =

.733, p < .000). The mean value from the KOL group is 3.50 and the celebrity group is 3.42. This means the manipulation was successful. The respondents who were in the KOL group considered the KOL figures, who endorsed the product in the advertisements, as experts, competent, and have the required knowledge that they need in their field.

Results

Analysis Procedures

Before analyzing the main hypotheses, a Pearson correlation test was conducted to identify the correlation between the independent variables (the experimental groups, KOL and celebrity groups) and the dependent variables (professional knowledge, familiarity, fame, innovativeness, source of credibility theory and purchase intention). A correlation test is also required to identify multicollinearity within dependent variables, which are required in every mediation analysis (Baron & Kenny, 1986).

-- Table 3 about here --

Based on table 3, independent variable (experimental group) is highly correlated with some of the dependent variables (familiarity and source of credibility, p < 0.05). The correlation between each dependent variables are proven to be significantly correlated (p < 0.05) which means multicollinearity presents and fulfill the requirements of mediation analysis.

Key Opinion Leader Endorsement and Experience Good

H1a: Key opinion leaders' perceived professional knowledge is seen as more effective, as compared to celebrities, for experience good. The results from PROCESS show that the stimulus

did not have a significant effect on key opinion leaders' professional knowledge. F[1, 264] = 1.9824., p > 0.05 (.1603), R2 = .083. Experimental group KOL did not give a statistically significant prediction ($\beta = -.1898$, p > .05 (.1603)). Therefore, it is not proven that key opinion leaders' perceived professional knowledge is more effective than celebrities, for experience good. This means hypothesis 1a is rejected.

H1b: Key opinion leaders' familiarity is seen as more effective, as compared to celebrities, for experience good. The results from PROCESS show that the stimulus did not have a significant effect on key opinion leaders' familiarity, F[1, 264] = .0087, p > 0.05 (.9259), R2 = .0000. Experimental group KOL do not give statistically significant prediction ($\beta = -.0151$, p > .05 (.9259)). Therefore, hypothesis 1b is rejected.

H1c: Key opinion leaders' fame is seen as more effective, as compared to celebrities, for experience good. The results show that the stimulus did not have significant effect on fame, F[1, 264] = .0014, p > 0.05 (.9703), R2 = .0023. Experimental group KOL did not give statistically significant prediction (β = -.0037, p > .05 (.9703)). Therefore, hypothesis 1c is rejected.

H1d: Key opinion leaders' innovativeness is seen as more effective, as compared to celebrities, for experience good. The results show that the stimulus did not have significant effect towards innovativeness, F[1, 264] = 2.2176, p > .05 (.1376), R2 = .0913. Experimental group KOL did not give statistically significant prediction ($\beta = -.1991$, p > .05 (.1376)). Therefore, hypothesis 1d is rejected.

H1e: Key opinion leaders' source of credibility is seen as more effective, as compared to celebrities, for experience good. The results show that key opinion leader did not have significant

effect on source of credibility, F[1, 264] = .8244, p > 0.05 (.3647), R2 = .0558. Experimental group KOL did not give statistically significant prediction ($\beta = -.1069$, p > .05 (.3647)). Therefore, hypothesis 1e is rejected.

Celebrities Endorsement and Search Good

H2a: Celebrities will have higher effectiveness on perceived professional knowledge compare to key opinion leader for search good. The results show that celebrities did not have significant effect towards professional knowledge, F[1, 264] = 1.4002, p > .05 (.2378), R2 = .0726. Experimental group celebrity do not give statistically significant prediction (β = -.1282, p > .05 (.2378)). Therefore, hypothesis 2a is rejected.

H2b: Celebrities will have higher effectiveness on familiarity compare to key opinion leader for search good. The results show that celebrity do not have significant effect towards familiarity, F[1, 264] = .0634, p > .05 (.8014), R2 = .0155. Experimental group celebrity do not give statistically significant prediction ($\beta = .0347$, p > .05 (.8014)). Therefore, hypothesis 2b is rejected.

H2c: Celebrities will have higher effectiveness on fame compare to key opinion leader for search good. The results show that celebrity have significant effect towards fame, F[1, 264] = 3.9954, p < .05 (.0466), R2 = .0149. Experimental group celebrity give statistically significant prediction ($\beta = -.1841$, p > .05 (.0466)). Therefore, hypothesis 2c is supported.

H2d: Celebrities will have higher effectiveness on innovativeness compare to key opinion leader for search good. The results show that celebrity do not have significant effect towards innovation, F[1, 264] = .0039, p > .05 (.9502), R2 = .0000. Experimental group celebrity do not give statistically significant prediction (β = -.0069, p > .05 (.9502)). Therefore, hypothesis 2d is rejected.

H2e: Celebrities will have higher effectiveness on source of credibility compare to key opinion leader for search good. The results show that celebrity do not have significant effect towards source of credibility, F[1, 264] = .4728, p > .05 (.4923), R2 = .0000. Experimental group celebrity do not give statistically significant prediction ($\beta = .0619$, p > .05 (.4923)). Therefore, hypothesis 2e is rejected.

Mediation Analysis

H3a: Professional knowledge will affect purchase intention more positively for key opinion leaders as compared to celebrities. The results show that professional knowledge of KOLs has significant direct effect on purchase intention, F[2, 263] = 38.7698, p < .05 (.000), R2 = .2277, β =.6232, p < .05 (.000). This makes hypothesis 3a is supported.

H3b: Familiarity will affect purchase intention more positively for key opinion leaders as compared to celebrities. The results show that the familiarity of KOLs have significant direct effect on purchase intention, F[2, 263] = 14.7228, p < .05 (.000), R2 = .1007, β =.2990, p < .05 (.000). Therefore, hypothesis 3b is supported.

H3c: Fame will affect purchase intention more positively for key opinion compare to celebrity. The results show that the fame of KOL have significant direct effect on purchase intention, F[2, 263] = 10.4547, p < .05 (.000), R2 = .0736, $\beta = .3994$, p < .05 (.000). This makes hypothesis 3c is supported.

H3d: Innovativeness will affect purchase intention more positively for key opinion compare to celebrity. The results show that the innovativeness of KOL has significant direct

effect on purchase intention, F[2, 263] = 61.7368, p < .05 (.000), R2 = .3195, β = .6602, p < .05 (.000). Therefore, hypothesis 3d is supported.

H3e: Source of credibility will affect purchase intention more positively for key opinion compare to celebrity. The results show that source of credibility from the KOL has significant direct effect on purchase intention, F[2, 263] = 30.0385, p < .05 (.000), R2 = .1860, $\beta = 1.1761$, p < .05 (.000). In other words, hypothesis 3e is supported.

The mediation analyses were conducted using SPSS macro Indirect (Preacher and Hayes 2008). Table 4 reports the regression coefficients for the paths through the mediator, as well as for the direct effect of the independent variable on the dependent variable and the mean indirect effect. The confidence interval for the indirect effect is the equivalent of the Sobel test; if the confidence interval does not include zero, the total mediated effect of the independent variable on the dependent variable is statistically significant at the chosen level (in the current analyses, the chosen level is 95%). The results of the mediation analyses with purchase intention as the dependent variable (Table 4) lend support to H3a-e; professional knowledge, familiarity, fame, innovativeness and source of credibility partially mediated the effects of key opinion leader on purchase intention.

-- Table 4 about here --

Key Opinion Leader Compared to Celebrity Endorsement

H4: Key opinion leader will lead to a higher purchase intention compare to celebrity. To test hypothesis 4, a linear regression with dummy variables was conducted. The results show a significant value, F(6, 393), p < 0.000, R2 = 0.269. Both KOLs and celebrity groups give statistically significant prediction in the model, $\beta = -.263$, p < 0.05 (0.016) for the KOL group and $\beta = -.249$, p < 0.05 (0.022) for the celebrity group. This means both KOLs and celebrity

groups have statistically significant effects on purchase intention. However, looking at the coefficient value, it can be concluded that the celebrity group is slightly less negative than the KOL group on the purchase intention. This indicates that celebrity leads to a better purchase intention as compared to key opinion leaders. Following this result, then Hypothesis 4 is rejected

H5: The relationship between key opinion leaders and purchase intention will be stronger for female consumers than male consumers. To analyze this hypothesis, an ANOVA test was conducted and the results show that there is no significant prediction in terms of comparison between female and male respondents, F[1, 135] = .057, p > .05 (.812), mean value of purchase intention from female respondents is 2.98 and male respondents is 2.94. This indicates that there is no substantial difference between female and male respondents on purchase intention.

-- Table 5 about here --

Discussion

The development of social media supports the rise of key opinion leaders, which can be considered as the new age 'celebrity endorser'. Even though they are not widely covered by traditional media channels such as television, radio or print media, consumers start to consider their opinions or reviews regarding particular products or brands that they want to purchase. This study examines the effectiveness of key opinion leaders as compared to celebrities, specifically for search and experience goods. The definition of an opinion leader is widely accepted to be one who is highly respected and whose opinion is utilized by the consumers to help in making a decision across a variety of situations (Cosmas & Sheth, 1980). The research provides support that key opinion leaders do indeed create different impacts on consumers and their decisions to purchase a product.

In the first part of the results, the experiment indicated that key opinion leaders do not significantly have higher effectiveness on professional knowledge, familiarity, fame, innovativeness and source of credibility on experience goods as compared to celebrities. The reason for this finding most likely is the respondents could not relate to the selected key opinion leader. This can be seen from 'familiarity' variables, which only has an average value of 2.9 (from 1 - 5 scale). This means the respondents know the figures but they do not have a strong attachment towards the key opinion leader, which means they do not have sufficient information about the KOL's professional knowledge or credibility. This assumption is supported by a study from Ilicic & Webster (2011), which found out that celebrities to whom consumers are attached may be more effective endorsers of brands than those celebrities to whom consumers are less attached.

The findings for celebrities are nearly the same. Most characteristics are not significant with a difference in 'fame' aspect. This finding aligns with prior studies by Surana (2008) and Till (1998). This current study used several celebrities who are already well known worldwide such as Kanye West, Rita Ora, Emma Watson, and Justin Bieber. Compared to the key opinion leaders that were used, these figures have more followers in their social media account and more appearances in other media such as television, magazines, etc. This explains why celebrities performed higher for 'fame' variable than key opinion leaders in this study.

In the second part of the results, all key opinion leaders' characteristics (professional knowledge, familiarity, fame, innovativeness and source of credibility) have significant impact on purchase intention. This finding indicates that all key opinion leaders' characteristics partially mediated the effect of key opinion leaders on purchase intention. This means the more professional knowledge, familiarity, fame, innovativeness and credibility a key opinion leader

has, the higher their effect on consumers' purchase intention. The finding confirms the previous studies from Bao & Chang (2014), which stated that opinion leaders drive product sales as a result of their product experience and product knowledge and also a study by Gupta & Kishore (2015), which stated that attractiveness and trustworthiness of celebrity endorsers have a significant impact on consumers' purchase intention.

Nevertheless, in this study female respondents show that they do not have particular tendencies towards purchase intention as compared to male respondents, which does not confirm the last hypothesis. This finding is not consistent with previous studies that indicated female consumers may have a higher tendency to perform systematic processing than male consumers (Kempf, Laczniak, & Smith, 2006; Kim, Lehto, & Morrison, 2007; Noseworthy, Cotte, & Lee, Meyers-Levy & Stemthal, 1991; Richard et al., 2010). However, this might be a result of the themes of the advertisements being too similar in this study for both men and women. The advertisements used the same template and mood board, and differ only by the figures (key opinion leader or celebrities). Based on study by Millward Brown (2011), men and women have different ad preferences. Men are more likely to enjoy ads featuring humor, distinctive creative styles, and sexual imagery, while women are more likely to enjoy ads featuring children or a slice of life. These preference differences could be what caused men and women in this study to respond in an indifferent way.

Therefore, after reviewing the entire study, there is one main implication that can be used by organizations in order to be put into operation. Companies have to consider using key opinion leaders as an alternative to celebrities because they have the characteristics to intensify purchase intention (professional knowledge, familiarity, fame, innovativeness, and source of credibility). However, companies need to be careful when choosing the right key opinion leader. Based on the findings related to key opinion leaders' characteristic, it is crucial to choose key opinion leaders that the consumers are attached to.

Limitations

There are several limitations from this study that should be taken into consideration despite some useful insights and managerial implications. First of all, the number of respondents who participated in this study was relatively small (400 respondents), considering the amount of the experiment groups (three groups). This can be one reason of some insignificant results. Thus, future research in this similar field needs to increase the amount of respondents. Secondly, online surveys were used to collect information, which has the tendency to have self-selection bias. It is proposed that the future research use an interview-assisted quantitative viewpoint to support such research. Thirdly, this study used a convenience sample and without any barriers for the respondents in regards to their key opinion leader or celebrity preferences. After seeing the results of this study, it is essential to choose the right respondents who are closely attached to the figures. It is also important to choose the right advertising theme related to gender. Since men and women have different preferences, the future research should modify the advertisement in terms of layout and themes so each gender can relate to the advertisements. Fourthly, the proposed model examined the effect of key opinion leaders and their characteristics on purchase intention. However, it is interesting to combine cognitive and affective factors of advertising effectiveness, such as emotional responses and beliefs, in order to mediate the effects of key opinion leaders' characteristics on purchase intention. Future research can extend the proposed model by incorporating these factors and thereby providing a deeper and more comprehensive insight into the effectiveness of key opinion leader. Finally, this study examined the moderating role of gender in social media. Future research should consider other characteristics (e.g. age, education level, and social media experience), which may influence the relationship between online stimuli and consumer responses.

References

Ault, S. (2015). Digital Star Popularity Grows Versus Mainstream Celebrities. Retrieved from https://variety.com/2015/digital/news/youtubers-teen-survey-ksi-pewdiepie-1201544882/

Abelson, R. P., Kinder, D., Peters, M. D. and Fiske, S. T. (1982). Affective and Semantic Components in Political Person Perception. *Journal of Personality and Social Psychology*, 42 (April), 619-30.

Bagozzi, R. P. (1981). Attitudes, Intentions, and Behavior: A Test of Some Key Hypotheses. *Journal of Personality and Social Psychology*, *41*,607-27.

Bansal H.S., Voyer P.A. (2000). Word-of-mouth processes within a services purchase decision context. *Journal of Service Research*, vol. 3, no. 2, pp. 166-177.

Bao, T. & Chang, T.S. (2014). Finding disseminators via electronic word of mouth message for effective marketing communications. *Decision Support Systems* 67: 21–29.

Baron, R. M., & Kenny, D. A. (1986). The moderator-mediator variable distinction in social psychological research: Conceptual, strategic, and statistical considerations. Journal of personality and social psychology, 51(6), 1173-1182.

Bearden, W. O., Netemeyer, R. G. & Teel, J. E. (1989), Measurement of Consumer Susceptibility to Interpersonal Influence. *Journal of Consumer Research*, *15* (March), 473481.

Bhattacherjee, A. (2012). Social Science Research: Principles, Methods, and Practices. *Textbooks Collection*. 3. http://scholarcommons.usf.edu/oa textbooks/3

Biswas, D., Biswas, A., & Das, N. (2006). The differential effects of celebrity and expert endorsements on consumer risk perceptions: The role of consumer knowledge, perceived congruency, and product technology orientation. *Journal of Advertising*, 35(2), 17-31.

Chan, K. & Misra, S. (1990). Characteristics of the Opinion Leader: A New Dimension. Journal of Advertising. 19. 53-60. 10.1080/00913367.1990.10673192.

Chen, Y. & J. Xie. (2008). Online consumer review: word-of-mouth as a new element of marketing communication mix, *Management Science 54 (3)*: 477–491.

Cooper, M. (1984). Can celebrities really sell products? *Marketing and Media Decisions*, September, p64-65 and 120.

Cosmas, S. C. & Sheth, J. (1980). Identification of Opinion Leaders across Cultures: An Assessment for Use in the Diffusion of Innovations and Ideas. *Journal of International Business Studies*. *11*. 66-72. 10.1057/palgrave.jibs.8490597.

Dholakia, Ruby & Stemthai, B. (1977). Highly Credible Sources: Persuasive Facilitators or Persuasive Liabilities? *The Journal of Consumer Research*. 3, 223-32.

Djafarova, E. & Rushworth, C. (2017). Exploring the credibility of online celebrities' Instagram profiles in influencing the purchase decisions of young female users. *Computers in Human Behavior* 68: 1 - 7.

Droge, C., Stanko, M. A., & Pollitte, W. A. (2010). Lead users and early adopters on the web: The role of new technology product blogs. *Journal of Product Innovation Management*, *27(1)*, 66-82. DOI: 10.1111/j.1540-5885.2009.00700.x

BusinessNewsDaily Staff (2011). Need a Product Endorsement? Look to Bloggers, Not Celebrities. Retrieved 13/11/2017 from http://www.businessnewsdaily.com/882-bloggers-celebrities-influence.html.

Carson, J. B. et al., (2007). Shared leadership in teams: an investigation of antecedent conditions and performance, Acad. Manag. J. 50 (5).

Cascio, F. Wayne, Shurygailo Stan, (2003). E-leadership and virtual teams, Organ. Dyn 31

(4).

Eagly, A. H. & Chaiken, S. (1993), *The Psychology of Attitudes*. New York: Harcourt Brace College Publishers.

Burke, M. C. & Edell, J. A. (1989), The Impact of Feelings on Ad-Based Affect and Cognition. *Journal* of *Marketing Research*, 26 (February), 69-83.

Erdogan, B. Z. (1999). Celebrity endorsement: A literature review. Journal of marketing management, 15(4), 291-314.

Friedman, H. H. & Friedman, L. (1979). Endorser effectiveness by product type. *Journal* of Advertising Res. 19(5):63-71.

Smith, A. & Monica Anderson (2018). Social Media Use in 2018. Retrieved 27/07/2018 from: http://www.pewinternet.org/2018/03/01/social-media-use-in-2018/.

Flynn, L. R., Goldsmith, R. E., & Eastman, J. K. (1996). Opinion leaders and opin- ion seekers: Two new measurement scales. *Journal of the Academy of Marketing Science*, *24(2)*, 137–147.

Giles, D.C. & Maltby, J. (2004). The role of media in adolescent development: relations between autonomy, attachment and interest in celebrities. *Personality and Individual Differences, Vol. 36* No. 4, pp. 813-822.

Goldsmith, R., Lafferty, B., & Newell, S. (2000). The impact of corporate credibility and celebrity credibility on consumer reaction to advertisements and brands. *Journal of Advertising*, 29(3), 43-54.

Gupta, R., et. al., (2015). Impact of Celebrity Endorsement on Consumers' Purchase Intention: A Study of Indian Consumers. *Australian Journal of Business and Management* Research, Vol.05 No.03.

Hayes, A. F. (2013). Introduction to mediation, moderation, and conditional process analysis: A regression-based approach. Guilford Press.

Huang, P., Lurie, N., & Mitra, S. (2009). Searching for Experience on the Web: An Empirical Examination of Consumer Behavior for Search and Experience Goods. *Journal of Marketing*, 73(2), 55-69. Retrieved from http://www.jstor.org/stable/20619010.

Hovland, C. & Weiss, W. (1951). The Influence of Source Credibility on Communication Effectiveness. *Public Opinion Quarterly*, 15, Winter, pp.635-650.

Hovland, C., Janis, L., & Kelley, H. (1953). *Communication and persuasion*. New Haven, CT: Yale University Press.

Jacoby, J. and Hoyer, W. D. (2001). What Opinion Leaders didn't know more? A Question of nomological validity. *Advances in consumer research (2001)*, 299-303

Jiménez, F. R., & Mendoza N. A. (2013). Too Popular to Ignore: The Influence of Online Reviews on Purchase Intentions of Search and Experience Products. *Journal of Interactive Marketing 27,* 226–235.

Kamins, M.A., 1990. An Investigation into the "Match-Up" hypothesis in celebrity advertising: when beauty may be only skin deep. *Journal of Advertising*. *19 (1)*, 4–13.

Katz, E., & Lazarsfeld, P. F. (1955). Personal influence: The part played by people in the flow of mass communication. Glencoe, IL: Free Press.

Kelman, H. C. (1961). Processes of opinion change. *Public Opinion Quarterly.* 1961; 25: 57-78.

Kempf, D. S., Laczniak, R. N., & Smith, R. E. (2006). The effects of gender on processing advertising and product trial information. *Marketing Letters*, 17, 5–16.

Kim, D. Y., Lehto, X. Y., & Morrison, A. M. (2007). Gender differences in online travel information search: Implications for marketing communications on the internet. *Tourism Management*, 28, 423–433.

King, C. W., & Summers, J.O.. (1970). Overlap of opinion leadership across consumer product categories. *Journal of Marketing Research 7 (1) (1970)*, 43–50.

Lee, E. J. & Shin, S. Y. (2014). When do consumers buy online product reviews? Effects of review quality, product type, and reviewer's photo. *Computers in Human Behavior: Volume 31*, 356-366.

Liu, Y. (2006). Word of mouth for movies: its dynamics and impact on box office revenue. *Journal of Marketing 70 (3)*: 74–89.

Meng, F. & Wei, J. (2016). What Factors of Online Opinion Leader Influence Consumer Purchase Intention? *International Journal of Simulation -- Systems, Science & Technology*. 2015, Vol. 16 Issue 3B: p15.1-15.8. 8p.

Meyers-Levy, J., & Stemthal, B. (1991). Gender differences in the use of message cues and judgments. *Journal of Marketing Research, 28,* 84–96.

Miciak, A.R., Shanklin, W.L., 1994. Choosing celebrity endorsers. *Marketing Management.* 3 (3), 50–60.

Millward Brown. (2011). Do men and women respond differently to ads? Retrieved from http://www.armi-marketing.com/library/MenWomenRespondDifferentlyAds.pdf.

Misra, S., & Sharon E. B. (1990). Celebrity Spokesperson and Brand Congruence: An Assessment of Recall and Affect. *Journal of Business Research*, 21 (2), 159–173.

McCormick, K. (2016). Celebrity endorsements: Influence of a product-endorser match on Millennials Attitudes and Purchase Intentions. *Journal of Retailing and Consumer Services 32:* 39–45.

McCracken, G. (1989) Who Is the Celebrity Endorser? Cultural Foundations of the Endorsement Process. *Journal of Consumer Research 16(3):* 310-21.

McQuail, D., & Windahl, S. (1993). Communication models for the study of mass communications (2nd ed.). London: Longman.

Nelson, P. (1970). Information and Consumer Behavior. *Journal of Political Economy* 78: 311, 312.

Nisbet, M. C., & Kotcher, J. E. (2009). A two-step flow of influence: Opinion-leader campaigns on climate change. *Science Communication, 30 (3),* 328–354.

Noseworthy, T. J., Cotte, J., & Lee, S. H. M. (2011). The effects of ad context and gender on the identification of visually incongruent products. *Journal of Consumer Research, 38*, 358– 375.

Ohanian, R. (1991). The impact of celebrity spokespersons' perceived image on consumers' intention to purchase. *Journal of Advertising Research*, *31*(1), 46-54.

Ostrom, T. M. (1969). The Relationship Between the Affective, Behavioral, and Cognitive Components of Attitude. *Journal of Experimental social psychology*, 5, 12-30.

Park, C., & Lee, T. (2009), Information direction, website reputation and eWOM effect: A moderating role of product type. *Journal of Business Research*, *62(1)*: 61 - 67.

Preacher, K. J., & Hayes, A. F. (2008). Asymptotic and resampling strategies for assessing and comparing indirect effects in multiple mediator models. *Behavior Research Methods*, 40, 879-891.

Richard, M.-O., Chebat, J.-C., Yang, Z., & Putrevu, S. (2010). A proposed model of online

consumer behavior: Assessing the role of gender. Journal of Business Research, 63, 926-934.

Richard E. P., John T. C., David S. (1983). Central and Peripheral Routes to Advertising Effectiveness: The Moderating Role of Involvement, *Journal of Consumer Research*, Volume 10, Issue 2, 1 September 1983, Pages 135–146, https://doi.org/10.1086/208954

Rogers, E. M., & Cartano, D. G. (1962). Methods of measuring opinion leadership. *Public Opinion Quarterly, 26,* 435-441. doi:10.1086/267118.

Rogers, E. M.(1995). Diffusion of Innovations. Fourth Edition. The Free Press, New York. 518p.

Ruvio, A. & Shoham A., (2007). Innovativeness, Exploratory Behavior, Market Mavenship, and Opinion Leadership: An Empirical Examination in the Asian Context. *Psychology & Marketing, Vol. 24(8):* 703–722.

Senecal, S. & Nantel, J. (2004). The Influence of Online Product Recommendations on Consumers' Online Choices. *Journal of Retailing*, *80*: 159-169.

Sengupta, J., Ronald C. G., and David S. B. (1997), All Cues Are Not Created Equal: Obtaining Attitude Persistence Under Low-Involvement Conditions. *Journal of Consumer Research*, 23 (March), 351–361.

Schmallegger, D., & Carson, D. (2008). Blogs in tourism: Changing approaches to information exchange. *Journal of Vacation Marketing*, *14(2)*, 99–110.

Solomon, M. R. (1996). *Consumer Behavior*, 3rd Edition, London: Prentice- Hall International, Inc.

Spears, N. & Singh, S. N. (2004). Measuring Attitude toward the Brand and Purchase Intentions. *Journal of Current Issues & Research in Advertising*, 26:2, 53-66. DOI: 10.1080/10641734.2004.10505164.

Spielman, H.M., (1981). The Celebrity Sell: Making it Work. Marketing Times 28, 13-14.

M. Sun. (2012). How does the variance of product ratings matter? *Management Science 58* (4): 696–707.

Surana, R. (2008). The Effectiveness of celebrity endorsement in India. *A dissertation of MA in Marketing*. University of Aberdeen.

Till, B. D. (1998). Using celebrity endorsers effectively: lessons from associative learning. *Journal of Product & Brand Management, vol.* 7, no. 5.

Uzunoglu, E. & Kip, S. M. (2014). Brand communication through digital influencers: Leveraging blogger engagement. *International Journal of Information Management 34:* 592–602.

Van Der Merwe, R & Van Heerden, G. (2009). Finding and utilizing opinion leaders: Social networks and the power of relationships. *South African Journal of Business Management*. 40.

Wagner, C., & Bolloju, N. (2005). Supporting knowledge management in organizations with conversational technologies: discussion forums, weblogs, and wikis. *Journal of Database Management 16 (2)*, i–viii.

Weathers, D., Sharma, S., and Wood, S. L. (2007). Effects of Online Communication Practices on Consumer Perceptions of Performance Uncertainty for Search and Experience Goods. *Journal of Retailing (83:4)*, pp. 393-401.

Wei, P. S., Lu, H.-P. (2013). An examination of the celebrity endorsements and online customer reviews influence female consumers' shopping behavior. Computers in Human Behavior 29: 193–201.

Weimann, G. (1994). The influentials. People who influence people. Albany: State Uni-
versity of New York Press.

Wiley, D. (2014). Why brands should turn to bloggers instead of celebrity spokes- people. Marketing Land. Retrieved 13/11/2017 from: http://marketingland.com/ brands-turn-bloggersinstead-celebrity-spokespeople-75971.

Appendix A



Figure 1. Research Model.

Appendix B

Tables

Table 1: Research design

	Control Group	KOL Group	Celebrity Group		
Advertisement 1	Search good without	Search good with	Search good with		
	any endorser	KOL as endorser celebrity as endorser			
Advertisement 2	Experience good	Experience good with	Experience good with		
	without any endorser	KOL as endorser	celebrity as endorser		

Table 2: Mean Values and Standard Deviation

Variables	Control	KOL	Celebrity
	M (SD)	M (SD)	M (SD)
Advertisement rating	3.38 (.74)	3.56 (.80)	3.34 (.90)
Professional knowledge	-	3.50 (.68)	3.42 (.75)
Familiarity*	-	2.64 (.97)	3.33 (.82)
Fame	-	3.15 (.64)	3.27 (.56)
Innovativeness*	-	2.94 (.81)	3.13 (.78)
Credibility source theory	-	1.85 (.30)	1.70 (.36)
Purchase intention	2.92 (.80)	2.96 (.93)	2.91 (.97)

	1	2	3	4	5	6	7
1. Experimental group	-						
2. Professional							
knowledge	0.053	-					
3. Familiarity	359**	.487**	-				
4. Fame	-0.100	.428**	.422**	-			
5. Innovativenes	-0.118	.641**	.561**	.450**	-		
6. Source of credibility	.210**	.628**	.228**	.241**	.506**	-	
7. Purchase intention	0.002	.469**	.302**	.247**	.562**	.423**	-

Table 3. Correlations Table

Table 4. Mediation Effects Summary

Independent	Mediator					Mean indirect	
variable	variable	a path	b path	c path	c' path	effect (a x b)	95% CI
	Professional					0.012	1 40 H 0 77
	knowledge	0203	.6232**	1251	1251	-0.013	L = .48; U = 0.77
KOI	Familiarity	.0437	.2990**			0.013	L = .19; U = .41
	Fame	.1018	.3994**			0.041	L = .22; U = .58
ROL	Innovativen					-0.059	L = .54; U = .78
	ess	0898	.6602**				
	Source of					-0 192	L = 0.87; U =
	credibility	1645	1.17**			-0.192	1.48

Table 5. Results Summary

Proposed hypotheses and results	Results
H1: Key opinion leader will have higher effectiveness on (a) perceived	
professional knowledge, (b) familiarity, (c) fame, (d) innovativeness, (e)	Rejected
source of credibility compare to celebrity for experience good	
H2: Celebrities will have higher effectiveness on (a) perceived	
professional knowledge, (b) familiarity, (c) fame, (d) innovativeness, (e)	
source of credibility compare to key opinion leader for search good	fame is supported)
H3: (a) Professional knowledge, (b) familiarity, (c) fame, (d)	
innovativeness, (e) source of credibility will affect purchase intention	Supported
more positively for key opinion compare to celebrity.	
H4: Key opinion leader will lead to a higher purchase intention compare	
to celebrity.	Rejected
H5: The relationship between key opinion leader and purchase intention	Deiested
will be stronger for female consumer than male consumer.	кејестеа

Appendix C

Analysis Output

Hypothesis 1 a – e

Run MATRIX p:	rocedure:					
* * * * * * * * * * * * *	**** PROCESS	Procedure	e for SPSS Ve	rsion 3.00	* * * * * * * * * *	* * * * * * *
Wr: Documenta	itten by Andı ation availak	rew F. Hay ble in Hay	yes, Ph.D. yes (2018). w	www.af ww.guilfor	hayes.com d.com/p/hay	es3
**************************************	************* chase ny_KO fknow	* * * * * * * * *	* * * * * * * * * * * * *	****	* * * * * * * * * * *	* * * * * *
Sample Size: 266						
************* OUTCOME VARIA profknow	************ ABLE:	* * * * * * * * * *	* * * * * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * * *	****
Model Summary R .0863	y R-sq .0075	MSE 1.0881	F 1.9824	df1 1.0000	df2 264.0000	p .1603
Model			L		TTOT	III OT
constant dummy_KO	3.8015 1898	.2325 .1348	16.3519 -1.4080	.0000 .1603	3.3438 4553	4.2593 .0756
************ OUTCOME VARIA purchase	************ ABLE:	* * * * * * * * * *	* * * * * * * * * * * * *	*****	* * * * * * * * * * * *	* * * * * *
Model Summar	Y R-sq	MSE	F	df1	df2	р
.5145	.2647	1.0852	47.3504	2.0000	263.0000	.0000
Model						
constant dummy_KO profknow	coeff .9600 0692 .5924	se .3294 .1351 .0615	t 2.9145 5121 9.6375	p .0039 .6090 .0000	LLCI .3114 3353 .4713	ULCI 1.6086 .1969 .7134
* * * * * * * * * * * * *	***** DIREC]	AND IND	IRECT EFFECTS	OF X ON Y	* * * * * * * * * *	* * * * * * *
Direct effect Effect 0692	t of X on Y se .1351	t 5121	р .6090	LLCI 3353	ULCI .1969	

Indirect effect(s) of X on Y: EffectBootSEBootLLCIBootULCI-.1124.0789-.2737.0422 profknow Level of confidence for all confidence intervals in output: 95.0000 Number of bootstrap samples for percentile bootstrap confidence intervals: 5000 NOTE: Variables names longer than eight characters can produce incorrect output. Shorter variable names are recommended. ----- END MATRIX -----Run MATRIX procedure: Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2018). www.guilford.com/p/hayes3 Model : 4 Y : purchase X : dummy KO M : familiar Sample Size: 266 OUTCOME VARIABLE: familiar Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2

 .0057
 .0000
 1.5637
 .0087
 1.0000
 264.0000
 р .9259 Model se t p LLCI .2787 11.5186 .0000 2.6614 .1616 -.0932 .9259 -.3333 coeff LLCI ULCI 3.2101 -.0151 constant 3.7588 dummy KO .3032 OUTCOME VARIABLE: purchase

Model Summary	7					
R	R-sq	MSE	F	df1	df2	р
.3218	.1036	.8238	15.1932	2.0000	263.0000	.0000
Model						
	coeff	se	t	р	LLCI	ULCI
constant	2.4902	.2480 10	0.0429	.0000	2.0020	2.9784
dummy KO	1811	.1173 -1	L.5435	.1239	4120	.0499
familiar	.2360	.0447 5	5.2829	.0000	.1480	.3240
* * * * * * * * * * * * * *	***** DIRECT	AND INDIRE	SCT EFFECTS	OF X ON Y	******	* * * * * * *
Direct effect	of X on Y					
Effect	se	t	р	LLCI	ULCI	
1811	.1173	-1.5435	.1239	4120	.0499	
Indirect offe	act(s) of X of	o V•				
Indirect erre	Effect B	n I. Notse Boo	DILLCI BO	otULCI		
familiar	0036	.0382 -	0794	.0729		
* * * * * * * * * * * * * *	A.	NALYSIS NO'I	TES AND ERR	ORS *****	* * * * * * * * * * * *	* * * * * * *
Level of conf 95.0000	idence for a	ll confider	nce interva	ls in outp	ut:	
Number of boo 5000	otstrap sampl	es for perc	centile boo	tstrap con	fidence int	ervals:
NOTE: Variabl output.	es names lon	ger than ei	ight charac	ters can p	roduce inco	rrect
Shorter	variable na	mes are rec	commended.			
END MA	ATRIX					
Run MATRIX pr	cocedure:					
* * * * * * * * * * * * *	*** DDOCESS	Procedure f	For SDSS Vo	raion 3 00	* * * * * * * * * *	* * * * * * *
	PROCESS	Procedure i	LOI SFSS Ve	151011 3.00		
Wri	tten by Andr	ew F. Hayes	s, Ph.D.	www.af	hayes.com	
Documenta	tion availab	le in Hayes	s (2018). w	ww.guilfor	d.com/p/hay	es3
* * * * * * * * * * * * *	* * * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * * *	* * * * * * *
Model · 4						
Y · purc	hase					
X · dumm	NV KO					
M : fame	e exp					
~]						
Sample						
Size: 266						
* * * * * * * * * * * * *	* * * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * * *	* * * * * * *
OUTCOME VARIA	ABLE:					
fame_exp						

Model	Summar	У					
	R .0023	R-sq .0000	MSE .5912	F .0014	df1 1.0000	df2 264.0000	p .9703
Model							
nouci		coeff	se	t.	a	LLCI	ULCI
consta	ant.	3.2726	.1714	19.0968	.0000	2.9352	3.6100
dummy	KO	.0037	.0994	.0373	.9703	1920	.1994
	_						
* * * * * *	******	* * * * * * * * * * * *	* * * * * * * * * * *	******	******	* * * * * * * * * * *	*****
OUTCON	ME VARI	ABLE:					
purcl	hase						
Madal	Gummar						
Model	BUIIIIIAL	y R-sa	MSE	F	df1	df2	n
	2972	0883	8378	12 7405	2 0000	263 0000	9000
	. 2912	.0005	.0570	12.7405	2.0000	203.0000	.0000
Model							
		coeff	se	t	р	LLCI	ULCI
consta	ant	2.0968	.3148	6.6608	.0000	1.4770	2.7167
dummy	KO	1859	.1183	-1.5716	.1172	4188	.0470
fame_	exp	.3517	.0733	4.8006	.0000	.2074	.4960
* * * * * *	* * * * * * *	***** DIRE(CT AND INDI	RECT EFFECTS	G OF X ON Y	* * * * * * * * * *	* * * * * * *
Direct	t effec	t of X on Y					
Ι	Effect	se	t	q	LLCI	ULCI	
-	1859	.1183	-1.5716	.1172	4188	.0470	
Indire	ect eff	ect(s) of X	on Y: BootSE E	BOOTLICI BO			
fame e	exp	.0013	.0357	0673	.0768		
_	1						
* * * * * *	* * * * * * *	* * * * * * * * * * *	ANALYSIS N	IOTES AND ERF	RORS *****	* * * * * * * * * * *	* * * * * * *
Level 95.0	of con 0000	fidence for	all confid	lence interva	als in outp	ut:	
Number 5000	r of bo O	otstrap sam <u>p</u>	ples for pe	ercentile boo	otstrap con	fidence int	ervals:
NOTE •	Variah	les names lo	onger than	eight charac	rters can n	roduce inco	rrect
output	t.		Jiiger chan	cigne charac	cers can p	roduce mee	JICCC
ouopu	Shorte	r variable m	names are r	ecommended.			
	- END M	ATRIX					
Run M	ATRIX p	rocedure:					
* * * * * *	* * * * * * *	**** PROCESS	S Procedure	e for SPSS Ve	ersion 3.00	* * * * * * * * * *	* * * * * * *
					-	1	
Do	Wr ocument	itten by And ation availa	arew F. Hay able in Hay	ves, Pn.D. ves (2018). w	www.af www.guilfor	nayes.com d.com/p/hay	ves3

Model : 4 Y : purchase X : dummy KO M : inovativ Sample Size: 266 OUTCOME VARIABLE: inovativ Model Summary
 R
 R-sq
 MSE
 F
 dfl
 df2
 p

 .0913
 .0083
 1.0704
 2.2176
 1.0000
 264.0000
 .1376
 Model coeffsetpLLCIULCI3.4711.230615.0537.00003.01713.9251 constant -.1991 .1337 -1.4892 .1376 -.4624 dummy KO .0642 OUTCOME VARIABLE: purchase Model Summary RR-sqMSEFdfldf2p.5469.2991.644156.10992.0000263.0000.0000 Model
 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 1.5172
 .2438
 6.2222
 .0000
 1.0371
 1.9973

 dummy_KO
 -.0853
 .1042
 -.8193
 .4134
 -.2904
 .1198

 ipovativ
 4986
 0477
 10.4428
 0000
 4046
 5926
 .0000 inovativ .0477 10.4428 .5926 .4986 .4046 Direct effect of X on Y Effect se t p LLCI ULCI -.0853 .1042 -.8193 .4134 -.2904 .1198 Indirect effect(s) of X on Y: Effect BootSE BootLLCI BootULCI inovativ -.0993 .0642 -.2248 .0299 Level of confidence for all confidence intervals in output: 95.0000 Number of bootstrap samples for percentile bootstrap confidence intervals: 5000 NOTE: Variables names longer than eight characters can produce incorrect output. Shorter variable names are recommended.

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----- END MATRIX -----Run MATRIX procedure: Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2018). www.quilford.com/p/hayes3 Model : 4 Y : purchase X : dummy KO M : cred exp Sample Size: 266 OUTCOME VARIABLE: cred exp Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2
 p

 .0558
 .0031
 .8297
 .8244
 1.0000
 264.0000
 .3647
 Model
 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 3.7800
 .2030
 18.6202
 .0000
 3.3803
 4.1797

 dummy_KO
 -.1069
 .1177
 -.9080
 .3647
 -.3387
 .1249
 OUTCOME VARIABLE: purchase Model Summary RR-sqMSEFdfldf2p.4653.2165.720036.33122.0000263.0000.0000 Model NodelcoeffsetpLLCIULCIconstant1.4368.28764.9951.0000.87042.0031dummy_KO-.1334.1098-1.2145.2256-.3497.0829cred_exp.4791.05738.3563.0000.3662.5920 Direct effect of X on Y EffectsetpLLCIULCI-.1334.1098-1.2145.2256-.3497.0829 Indirect effect(s) of X on Y:

Effect BootSE BootLLCI BootULCI

----- END MATRIX -----

Hypothesis 2 a – e

Run MATRIX procedure: Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2018). www.guilford.com/p/hayes3 Model : 4 Y : purchase X : dummy Ce M : profknow Sample Size: 266 OUTCOME VARIABLE: profknow Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2
 p

 .0726
 .0053
 .6787
 1.4002
 1.0000
 264.0000
 .2378
 Model Jetp.188919.3824.0000.1083-1.1833.2378 LLCI .UU00 3.2896 .2378 - 21 р coeff LLCI ULCI 3.6615 constant 4.0335 -.1282 .0851 dummy Ce OUTCOME VARIABLE: purchase Model Summary

R .2511	R-sq .0630	MSE .8610	F 8.8478	df1 2.0000	df2 263.0000	p .0002
Model constant dummy_Ce profknow	coeff 1.9983 0313 .2890	se .3312 .1223 .0693	t 6.0332 2559 4.1692	p .0000 .7983 .0000	LLCI 1.3461 2722 .1525	ULCI 2.6505 .2096 .4255
* * * * * * * * * * *	***** DIREC	T AND INDIR	ECT EFFECTS	OF X ON Y	* * * * * * * * * *	* * * * * * *
Direct effe Effect 0313	ct of X on Y se .1223	t 2559	р .7983	LLCI 2722	ULCI .2096	
Indirect ef profknow	fect(s) of X Effect 0370	on Y: BootSE Boo .0329	otLLCI Bo 1057	otULCI .0241		
* * * * * * * * * * *	* * * * * * * * * * * *	ANALYSIS NO	TES AND ERR	ORS *****	* * * * * * * * * * *	* * * * * * *
Level of co 95.0000	nfidence for	all confide	nce interva	ls in outp	ut:	
Number of b 5000	ootstrap samp	les for per	centile boo	tstrap con	fidence int	ervals:
NOTE: Varia output. Short	bles names lo er variable r MATRIX	enger than e: ames are rea	ight charac	ters can p	roduce inco	rrect
Run MATRIX	procedure:					
* * * * * * * * * * *	**** PROCESS	Procedure :	for SPSS Ve	rsion 3.00	* * * * * * * * * *	* * * * * * *
W. Documen	ritten by And tation availa	lrew F. Hayes ble in Hayes	s, Ph.D. s (2018). w	www.af ww.guilfor	hayes.com d.com/p/hay	es3
*************** Model : 4 Y : pu X : du M : fa:	************** rchase mmy_Ce miliar	*****	****	*****	*****	****
Sample Size: 266						
************ OUTCOME VAR familiar	************ IABLE:	* * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * * *	****
Model Summa	ry					

R .0155	R-sq.0002	MSE 1.0987	F .0634	df1 1.0000	df2 264.0000	p .8014
Model						
constant dummy_Ce	coeff 2.7123 .0347	se .2404 .1378	t 11.2843 .2518	p .0000 .8014	LLCI 2.2391 2367	ULCI 3.1856 .3061
* * * * * * * * * * *	* * * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * * *	* * * * * * *
OUTCOME VAR purchase	IABLE:					
Model Summa	ry					
R .1944	R-sq .0378	MSE .8842	F 5.1652	df1 2.0000	df2 263.0000	p .0063
Model						
constant dummy_Ce familiar	coeff 2.5824 0744 .1748	se .2625 .1237 .0552	t 9.8366 6018 3.1662	p .0000 .5479 .0017	LLCI 2.0655 3179 .0661	ULCI 3.0994 .1691 .2835
* * * * * * * * * * *	***** DTREC	ית אים דאום	RECT FFFFCTS	OF X ON Y	* * * * * * * * * *	* * * * * * *
	DIREC	I AND IND	INECI EFFECIS	OF X ON I		
Direct effe Effect 0744	ct of X on Y se .1237	t 6018	р .5479	LLCI 3179	ULCI .1691	
Indirect ef	fect(s) of X	on Y:	BOOTLLCI BO	OTILCT		
familiar	.0061	.0259	0480	.0582		
* * * * * * * * * * *	* * * * * * * * * * * *	ANALYSIS N	NOTES AND ERR	ORS *****	* * * * * * * * * * *	* * * * * * *
Level of co 95.0000	nfidence for	all confid	lence interva	ls in outp	ut:	
Number of b 5000	ootstrap samp	oles for pe	ercentile boo	tstrap con	fidence int	ervals:
NOTE: Varia	bles names lo	onger than	eight charac	ters can p	roduce inco	rrect
Short	er variable r	names are n	recommended.			
END	MATRIX					
Run MATRIX	procedure:					
* * * * * * * * * * *	**** PROCESS	S Procedure	e for SPSS Ve	rsion 3.00	* * * * * * * * * *	* * * * * * *
W Documen	ritten by And tation availa	drew F. Hay able in Hay	yes, Ph.D. yes (2018). w	www.af ww.guilfor	hayes.com d.com/p/hay	es3
* * * * * * * * * * *	* * * * * * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * * *	* * * * * * *
Model : 4 Y : pu	rchase					

X : dummy Ce M : fame sea Sample Size: 266 OUTCOME VARIABLE: fame sea Model Summary
 R
 R-sq
 MSE
 F
 dfl
 df2
 p

 .1221
 .0149
 .4905
 3.9954
 1.0000
 264.0000
 .0466
 Model coeffsetpLLCIULCI3.4597.160621.5422.00003.14353.7759-.1841.0921-1.9988.0466-.3654-.0027 constant dummy Ce OUTCOME VARIABLE: purchase Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2
 p

 .1238
 .0153
 .9049
 2.0463
 2.0000
 263.0000
 .1313
 Model
 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 2.4932
 .3622
 6.8827
 .0000
 1.7800
 3.2065

 dummy_Ce
 -.0384
 .1260
 -.3045
 .7610
 -.2865
 .2098

 fame_sea
 .1628
 .0836
 1.9479
 .0525
 -.0018
 .3274
 Direct effect of X on Y
 Effect
 se
 t
 p
 LLCI
 ULCI

 -.0384
 .1260
 -.3045
 .7610
 -.2865
 .2098
 Indirect effect(s) of X on Y: Effect BootSE BootLLCI BootULCI -.0300 .0258 -.0902 .0113 fame sea Level of confidence for all confidence intervals in output: 95.0000 Number of bootstrap samples for percentile bootstrap confidence intervals: 5000 NOTE: Variables names longer than eight characters can produce incorrect output. Shorter variable names are recommended. ----- END MATRIX -----

Run MATRIX procedure: Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2018). www.guilford.com/p/hayes3 Model : 4 Y : purchase X : dummy Ce M : inovativ Sample Size: 266 OUTCOME VARIABLE: inovativ Model Summary
 R
 R-sq
 MSE
 F
 dfl
 df2

 .0038
 .0000
 .7137
 .0039
 1.0000
 264.0000
 р .9502 Model coeffsetpLLCI2.9393.193715.1726.00002.5579-.0069.1111-.0625.9502-.2257 LLCI ULCI 3.3207 constant dummy Ce .2118 OUTCOME VARIABLE: purchase Model Summary
 R
 R-sq
 MSE
 F
 dfl
 df2
 p

 .4072
 .1658
 .7666
 26.1374
 2.0000
 263.0000
 .0000
 .0000 Model nodelcoeffsetpLLCIULCIconstant1.7056.27476.2089.00001.16472.2465dummy_Ce-.0652.1151-.5660.5719-.2918.1615inovativ.4596.06387.2057.0000.3340.5852 Direct effect of X on Y

 ct effect of x on Y

 Effect se t p
 LLCI

 -.0652
 .1151
 -.5660
 .5719
 -.2918
 .1615

 Indirect effect(s) of X on Y: Effect BootSE BootLLCI BootULCI inovativ -.0032 .0544 -.1114 .1059

Level of confidence for all confidence intervals in output: 95.0000 Number of bootstrap samples for percentile bootstrap confidence intervals: 5000 NOTE: Variables names longer than eight characters can produce incorrect output. Shorter variable names are recommended. ----- END MATRIX -----Run MATRIX procedure: Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2018). www.guilford.com/p/hayes3 Model : 4 Y : purchase X : dummy_Ce M : cred sea Sample Size: 266 OUTCOME VARIABLE: cred sea Model Summary
 R
 R-sq
 MSE
 F
 dfl
 df2
 p

 .0423
 .0018
 .4694
 .4728
 1.0000
 264.0000
 .4923
 Model LLCI 02. 1473 3.7660 2393 coeffsetpLLCI3.4567.157122.0021.00003.1473.0619.0901.6876.4923-.1154 constant dummy Ce .2393 OUTCOME VARIABLE: purchase Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2

 .4265
 .1819
 .7518
 29.2378
 2.0000
 263.0000
 р .0000 Model
 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 1.0040
 .3347
 2.9998
 .0030
 .3450
 1.6631

 dummy_Ce
 -.1051
 .1141
 -.9213
 .3578
 -.3298
 .1196

53

.5938 .0779 7.6234 .0000 .4404 cred_sea .7472 Direct effect of X on Y EffectsetpLLCIULCI-.1051.1141-.9213.3578-.3298.1196 Indirect effect(s) of X on Y: EffectBootSEBootLLCIBootULCI.0368.0538-.0684.1475 cred sea Level of confidence for all confidence intervals in output: 95.0000 Number of bootstrap samples for percentile bootstrap confidence intervals: 5000 NOTE: Variables names longer than eight characters can produce incorrect output. Shorter variable names are recommended. ----- END MATRIX -----

Hypothesis 3 a – e

Run M	ATRIX p	rocedure:					
* * * * *	* * * * * * *	**** PROCES	S Procedure	e for SPSS V	ersion 3.00	* * * * * * * * * *	* * * * * * *
D	Wr ocument	itten by And ation avail	drew F. Hay able in Hay	yes, Ph.D. yes (2018).	www.af www.guilfor	hayes.com d.com/p/hay	ves3
****	* * * * * * *	* * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * * *	* * * * * * *
Model Y X M	: 4 : pur : dum : pro	chase my_KO fknow					
Sampl Size:	e 266						
***** OUTCO prof	****** ME VARI. know	********** ABLE:	* * * * * * * * * * *	*****	* * * * * * * * * * *	* * * * * * * * * * *	****
Model	Summar	Y					
	R .0135	R-sq .0002	MSE .5169	F .0479	df1 1.0000	df2 264.0000	p .8270
Model							
		coeff	se	t	р	LLCI	ULCI
const	ant	3.5002	.1602	21.8444	.0000	3.1847	3.8157

dummy_	КО	0203	.0929	2188	.8270	2033	.1626
***** OUTCOI purcl	******* ME VARI <i>I</i> hase	************ ABLE:	******	* * * * * * * * * * * * *	*****	* * * * * * * * * * *	* * * * * *
Model	Summary R .4772	R-sq .2277	MSE.7097	F 38.7698	df1 2.0000	df2 263.0000	q 0000.
Model				L		TTOT	
consta dummy profki	ant _KO now	1.0666 1719 .6232	.3146 .1089 .0721	3.3905 -1.5791 8.6409	p .0008 .1155 .0000	.4472 3864 .4812	1.6861 .0425 .7652
* * * * * *	* * * * * * * *	***** DIREC	CT AND IND	IRECT EFFECTS	G OF X ON Y	*****	* * * * * * *
Direc [.]	t effect Effect 1719	c of X on Y se .1089	t -1.5791	р .1155	LLCI 3864	ULCI .0425	
Indire	ect effe	ect(s) of X	on Y:	Pootiici Po			
profk	now	0127	.0597	1309	.1055		
****	* * * * * * * *	* * * * * * * * * * *	ANALYSIS N	NOTES AND ERF	ORS *****	* * * * * * * * * * *	* * * * * * *
Level 95.0	of coni 0000	fidence for	all confic	dence interva	als in outp	ut:	
Numbe: 500	r of boo D	otstrap samp	les for pe	ercentile boo	otstrap con	fidence int	ervals:
NOTE: outpu	Variabi t. Shorter	les names lo c variable n	onger than names are n	eight charac	ters can p	roduce inco	rrect
	- END MA	ATRIX					
Run Mi	ATRIX pi	cocedure:					
* * * * *	* * * * * * * *	**** PROCESS	S Procedure	e for SPSS Ve	ersion 3.00	* * * * * * * * * *	* * * * * * *
De	Wr: ocumenta	itten by And ation availa	drew F. Hay able in Hay	yes, Ph.D. yes (2018). w	www.af www.guilfor	hayes.com d.com/p/hay	es3
***** Model Y X M	******* : 4 : purc : dumr : fam:	************** chase ny_KO iliar	*****	* * * * * * * * * * * * *	*****	* * * * * * * * * * *	* * * * * *
Sampte	=						

55

Size: 266 OUTCOME VARIABLE: familiar Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2
 p

 .0214
 .0005
 .9446
 .1209
 1.0000
 264.0000
 .7283
 Model LLCI 010 1790 3.3320 2910 coeffsetpLLCI2.9055.216613.4139.00002.4790.0437.1256.3478.7283-.2036 constant 2.9055 dummy KO OUTCOME VARIABLE: purchase Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2

 .3173
 .1007
 .8264
 14.7228
 2.0000
 263.0000
 р .0000 Model ModelcoeffsetpLLCIULCIconstant2.3790.26279.0550.00001.86172.8964dummy_KO-.1977.1175-1.6821.0937-.4291.0337familiar.2990.05765.1939.0000.1857.4124 Direct effect of X on Y

 ct effect of x on r

 Effect se t p
 LLCI ULCI

 -.1977
 .1175
 -1.6821
 .0937
 -.4291
 .0337

 Indirect effect(s) of X on Y: Effect BootSE BootLLCI BootULCI .0385 -.0598 .0934 familiar .0131 Level of confidence for all confidence intervals in output: 95.0000 Number of bootstrap samples for percentile bootstrap confidence intervals: 5000 NOTE: Variables names longer than eight characters can produce incorrect output. Shorter variable names are recommended. ----- END MATRIX -----

Run MATRIX procedure:

* * * * * *	* * * * * * * *	**** PROCES	S Procedure	e for SPSS V	ersion 3.00	* * * * * * * * * *	* * * * * * *
Do	Wr: ocumenta	itten by And ation avail	drew F. Hay able in Hay	yes, Ph.D. yes (2018).	www.afl www.guilford	nayes.com d.com/p/hay	res3
***** Model Y X M	******* : 4 : purc : dumr : fame	************* chase ny_KO e_tot	****	****	*****	****	****
Sample Size:	e 266						
***** OUTCON fame_	******* 1E VARI2 _tot	*********** ABLE:	* * * * * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * * *	****
Model	Summary R .0790	R-sq .0062	MSE .3743	F 1.6585	df1 1.0000	df2 264.0000	p .1989
Model							
consta dummy_	ant _KO	coeff 3.0457 .1018	se .1363 .0791	t 22.3389 1.2878	p .0000 .1989	LLCI 2.7773 0539	ULCI 3.3142 .2575
* * * * * *	* * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * * *	* * * * * * *
OUTCON purch	ME VARIA nase	ABLE:					
Model	Summar	Y					
	R .2714	R-sq .0736	MSE .8513	F 10.4547	df1 2.0000	df2 263.0000	p 0000.
Model							
consta dummy_ fame_t	ant _KO tot	coeff 2.0314 2253 .3994	se .3496 .1196 .0928	t 5.8108 -1.8833 4.3026	p .0000 .0608 .0000	LLCI 1.3430 4608 .2166	ULCI 2.7197 .0103 .5822
* * * * * *	* * * * * * * *	***** DIRE	CT AND IND:	IRECT EFFECT	S OF X ON Y	* * * * * * * * * *	* * * * * * *
Direct E	t effect Effect 2253	t of X on Y se .1196	t -1.8833	p .0608	LLCI 4608	ULCI .0103	
Indire	ect effe	ect(s) of X Effect	on Y: BootSE H	BootLLCI B	ootULCI		
fame_t	tot	.0407	.0350	0196	.1190		
* * * * * *	* * * * * * * *	* * * * * * * * * * *	ANALYSIS N	NOTES AND ER	RORS ******	* * * * * * * * * * *	* * * * * * *
Level 95.0	of con: 0000	fidence for	all confid	dence interv	als in outpu	ut:	

Number of bootstrap samples for percentile bootstrap confidence intervals: 5000 NOTE: Variables names longer than eight characters can produce incorrect output. Shorter variable names are recommended. ----- END MATRIX -----Run MATRIX procedure: Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2018). www.guilford.com/p/hayes3 Model : 4 Y : purchase X : dummy KO M : inovativ Sample Size: 266 OUTCOME VARIABLE: inovativ Model Summary RR-sqMSEFdf1df2p.0529.0028.6533.73961.0000264.0000.3906 Model coeffsetpLLCIULCI3.1832.180117.6712.00002.82863.5379-.0898.1045-.8600.3906-.2955.1158 3.1832 constant dummy KO -.0898 OUTCOME VARIABLE: purchase Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2
 p

 .5652
 .3195
 .6254
 61.7368
 2.0000
 263.0000
 .0000
 Model coeffsetpLLCIULCI1.1462.26044.4017.0000.63351.6589-.1253.1023-1.2243.2219-.3268.0762.6602.060210.9641.0000.5416.7788 1.1462 constant dummy_KO -.1253 inovativ .6602

Direct effect of X on Y setpLLCIULCI.1023-1.2243.2219-.3268.0762 Effect se -.1253 Indirect effect(s) of X on Y: Effect BootSE BootLLCI BootULCI inovativ -.0593 .0668 -.1897 .0729 Level of confidence for all confidence intervals in output: 95.0000 Number of bootstrap samples for percentile bootstrap confidence intervals: 5000 NOTE: Variables names longer than eight characters can produce incorrect output. Shorter variable names are recommended. ----- END MATRIX -----Run MATRIX procedure: Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2018). www.guilford.com/p/hayes3 Model : 4 Y : purchase X : dummy KO M : cred tot Sample Size: 266 ****** OUTCOME VARIABLE: cred tot Model Summary
 R
 R-sq
 MSE
 F
 df1
 df2
 p

 .0238
 .0006
 .1175
 .1497
 1.0000
 264.0000
 .6991
 Model coeffsetpLLCI1.8088.076423.6777.00001.6584-.0171.0443-.3870.6991-.1044 LLCI ULCI 1.8088 1.9592 constant dummy KO -.0171 .0701 OUTCOME VARIABLE: purchase

Model Summa	ry					
R .4312	R-sq .1860	MSE .7481	F 30.0385	df1 2.0000	df2 263.0000	p 0000.
Model						
	coeff	se	t	р	LLCI	ULCI
constant	1.1205	.3407	3.2890	.0011	.4497	1.7913
dummy_KO	1645	.1118 -	-1.4708	.1425	3846	.0557
cred_tot	1.1761	.1553	7.5729	.0000	.8703	1.4819
* * * * * * * * * * *	****** DIREC]	AND INDI	RECT EFFECTS	S OF X ON Y	* * * * * * * * * *	* * * * * * *
Direct effe	ct of X on Y					
Effect	se	t	р	LLCI	ULCI	
1645	.1118	-1.4708	.1425	3846	.0557	
Indirect ef	fect(s) of X of	on Y:				
	Effect B	BootSE Bo	ootLLCI Bo	otULCI		
cred_tot	0202	.0550	1332	.0862		
* * * * * * * * * * *	*****	ANALYSIS NO	OTES AND ERF	ORS *****	* * * * * * * * * * *	* * * * * * *
Level of co 95.0000	nfidence for a	all confide	ence interva	als in outp	ut:	
Number of b 5000	ootstrap sampl	es for pe	rcentile boo	otstrap con:	fidence int	ervals:
NOTE: Varia output. Short	bles names lor er variable na	nger than e ames are re	eight charac	cters can p	roduce incc	rrect
END	MATRIX					

Hypothesis 4

Model Summary										
					Change Statistics					
		R	Adjusted	Std. Error of	R Square				Sig. F	
	R	Square	R Square	the Estimate	Change	F Change	df1	df2	Change	
1	.120 ^a	.014	.009	.90161	.014	2.877	2	397	.058	
2	.269 ^b	.072	.058	.87902	.058	6.166	4	393	.000	

~

a. Predictors: (Constant), dummy_KOL, dummy_Celebrity

b. Predictors: (Constant), dummy_KOL, dummy_Celebrity, Income, Gender, Educational background, Age

c. Dependent Variable: purchase_total

ANOVA ^a									
		Sum of		Mean					
Model		Squares	df	Square	F	Sig.			
1	Regressio n	4.677	2	2.338	2.877	.058 ^b			
	Residual	322.723	397	.813					
	Total	327.400	399						
2	Regressio n	23.735	6	3.956	5.120	.000 ^c			
	Residual	303.664	393	.773					
	Total	327.400	399						

a. Dependent Variable: purchase_total

b. Predictors: (Constant), dummy_KOL, dummy_Celebrity

c. Predictors: (Constant), dummy_KOL, dummy_Celebrity, Income,

Gender, Educational background, Age

Coefficients^a

				Standardize		
		Unstand	lardized	d		
		Coefficients		Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	3.691	.324		11.408	.000
	dummy_Celebrity	205	.111	108	-1.857	.064
	dummy_KOL	251	.111	131	-2.255	.025
2	(Constant)	4.233	.376		11.256	.000
	dummy_Celebrity	249	.108	131	-2.302	.022
	dummy_KOL	263	.109	137	-2.410	.016
	Gender	.124	.093	.066	1.337	.182
	Educational background	113	.047	137	-2.411	.016
	Age	211	.079	165	-2.694	.007
	Income	.052	.056	.055	.927	.355

a. Dependent Variable: purchase_total

Appendix D

Questionnaire

Demographics

The first questions is about respondent's background.

- 1. What is your **gender**?
- male
- female
- 2. What is your **age**?
- 17 25 years old
- 25 35 years old
- 35 45 years old
- >45 years old

3. What is the highest **educational** degree or level of school you have completed? If currently enrolled, highest degree received.

- no schooling completed
- high school
- diploma or the equivalent
- Bachelor's degree
- Master's degree
- Doctorate degree
- 4. What is your income range?
 - < Rp 2.500.000,- (156 Euro)
 - Rp 2.500.000,- Rp 7.500.000,- (156 468 Euro)
 - Rp 7.500.000,- Rp 15.000.000,- (468 936 Euro)
 - Rp 15.000.000,- Rp 25.000.000,- (936 1560 Euro)
 - > Rp 25.000.000,- (> 1560 Euro)

The next questions concern your social media usage in general:

Social Media Usage

- 1. Do you have Social Media account? Yes/No
- 2. What kind of social media do you have?
 - Instagram
 - Facebook
 - Twitter
 - Youtube
 - Other kind of social media
- 3. Frequency:

a. Frequency of use: 1 = occasionally, 2 = a few days per month, 3 = a few days per week, 4 = daily

b. How often do you go to your favorite social media? - 1 = several times per month, 2 = several times per week, 3 = once per day, 4 = 2 - 5 times per day, 5 = 6 - 10 times per day, 6 = more than 10 times per day

4. What is your purpose using social media? 1 = to keep in contact and share experiences with friends, 2 = streaming music/ video/ photos, 3 = uploading music/ video/ photos, 4 = blogging, 5 = creating polls/ quizzes or surveys, 6 = chatting 7 = finding news/ information

PART 2.

Thank you for your responses. Please take a moment to look at the print ad on the next page. They are followed by questions about your spontaneous impressions.

PRINT AD

In this part, every respondent will get 2 types of advertisement (search good & experience good) and for each advertisement; they will get several questions below

Rate the ad that you just saw:

- 1 = Unappealing 5 = appealing
- 1 = Bad 5 = good
- 1 = Unpleasant 5 = pleasant
- 1 = Unfavorable 5 = favorable
- 1 = Unlikable 5 = likable

Mediator Variables

- Professional knowledge (familiarity & professional knowledge). How do you find the celebrity/ KOL in the advertisement? (Netemeyer and Bearden (1992), 1 = strongly disagree, 5 = strongly agree
 - Knowledgeable
 - Competent
 - o Expert
 - Trained
 - Experienced
 - Informed
- Familiarity & perceived product involvement (Chan and Misra, 1990; Miciak & Shanklin, 1994), 1 = strongly disagree, 5 = strongly agree
 - I recognize the celebrity/ KOL
 - I like the celebrity/ KOL
 - The celebrity/ KOL seems friendly to me
- Fame (Li, 2007; Bansal, 2000, Maltby et al.'s (2008)), rating the presence of the characteristics in the endorser figure from 1 = strongly not present, 5 = strongly present

- Ambitious
- Always seek to compare to others
- Attention seeking
- Conceitedness
- Social access
- Psychological vulnerability
- \circ Glamour
- Innovativeness (Rogers & Shoemaker, 1995)
 - I often seek this person's opinion about some issues that is currently happening
 - This person often try new ideas
 - His/ her way of thinking is creative and original
 - He/ she is the leading figure for the field
- Credibility Source Theory (expertiseness, trustworthiness, attractiveness) (Hovland et al., 1953: Ohanian, 1991; Erdogan, 1999)
 - honest/dishonest, reliable/unreliable, sincere/insincere, trustworthy/untrustworthy, attractive/unattractive, classy/not classy, beautiful/ugly, elegant/plain, expert/not an expert, experienced/inexperienced, knowledgeable/unknowledgeable, qualified/unqualified

Dependent Variable - Purchase Intention

Please describe your overall feelings about the brand described in the ad you just read (Abelson et al. 1982; Edell and Burke 1987, p. 423)

- 1 = Definitely do not intend to buy it 5 = definitely intend to buy it
- 1 = Very low purchase interest 5 = high purchase interest
- 1 = Definitely not buy it 5 = definitely buy it
- 1 = Probably not buy it 5 = probably buy it

Appendix E

Stimuli









Emma Watson Film actress, model, and activist

NCOME







Abstract

The recent rise of key opinion leaders on social media, including bloggers, YouTubers, and Instagram influencers, is a relatively new topic in our 21st century digital reality, and thus has not been fully examined by researchers. One neglected area is how these key opinion leaders affect their audience's purchase intentions. This study investigated what effect key opinion leaders, mediated by their characteristics (professional knowledge, familiarity, fame, innovativeness, and credibility) and moderated by gender, have on purchase intentions as opposed to celebrity endorsers. An experiment was conducted where respondents were divided into three groups (control, key opinion leaders group, and celebrity endorsers group) and asked to answer questions about two advertisements. Results indicated that the stimulus did not affect the mediator variables, likely because respondents could not relate themselves to the key opinion leaders or celebrities used in the stimuli. However, partial mediation effects were present, indicating a positive relationship between key opinion leaders and purchase intention. This finding suggests that companies should certainly consider using key opinion leaders as alternatives to celebrity endorsers by taking the characteristics of key opinion leaders into account when preparing product advertisements.

Keywords: key opinion leader, celebrities endorsement, purchase intention, advertising, experimental research, search good, experience good.
Zussamenfassung

Der jüngste Aufstieg wichtiger Meinungsmacher innen, "key opinion leader" in sozialen Medien, ebenso Blogger, Youtuber und Instagramer, ist ein relativ neues Thema im digitalen Zeitalter des 21. Jahrhunderts und wurde damit von Forschenden noch nicht vollständig untersucht. Ein vernachlässigter Forschungsbereich ist wie diese Meinungsmacher innen die Kaufabsichten ihrer Zielgruppen beeinflussen. Diese Studie untersuchte die Wirkungen von Meinungsmacher innen, vermittelt anhand besonderer Merkmale (Expert innenwissen, Bekanntheitsgrad, Ruhm, Erfindungsreichtum und Glaubwürdigkeit) und nach Geschlechtern moderiert, auf die Kaufabsichten im Gegensatz zu prominenten Vertreter innen. Das Untersuchungsdesign wurde so angelegt, dass die Untersuchungsteilnehmer innen in drei Gruppen (Kontrolle, Meinungsmacher innen, prominente Vertreter innen) eingeteilt wurden und Fragen zu zwei Werbeanzeigen beantworten sollten. Die Ergebnisse deuten darauf hin, dass der Stimulus die Mediatorvariablen nicht beeinflusste, wahrscheinlich weil die Befragten sich nicht mit den wichtigsten Meinungsführern oder Berühmtheiten, die in den Reizen verwendet wurden, identifizieren konnten. Es gab jedoch teilweise Vermittlungseffekte, die auf eine positive Beziehung zwischen den wichtigsten Meinungsführern und der Kaufabsicht hinwiesen. Dieses Ergebnis deutet darauf hin, dass Unternehmen die Verwendung wichtiger Meinungsführer innen als Alternativen zu Celebrity-Endorsern in Erwägung ziehen sollten, indem sie die Eigenschaften der wichtigsten Meinungsführer innen bei der Erstellung von Produktanzeigen berücksichtigen.

Stichwörter: Schlüssel Meinungsführer, Prominente Billigung, Kaufabsicht, Werbung, experimentelle Forschung, Suche gut, Erfahrung gut.