

Aesthetic Perception Scale: Validity and Reliability Study

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Abstract

The aim of this study is to build a measurement tool to survey the aesthetical development of the social network "Instagram" on women and to define its psychometrical qualities. The research is a descriptive and quantitative study designed with a screening model. This Aesthetic Perception Scale is based on a proper literature survey and expert opinions. Purposive and criterion sampling methods were used while determining the sampling of the study. 716 women studying in the cities of Ağrı, Erzurum, İstanbul and İzmir were involved in the study. The data were collected via scale, which was developed by the researcher. Explanatory factor analysis was conducted within the research in order to present proves for the findings of the measurement tool. A scale of three factors and 36 items was developed at the end of the research. In order to present proof for the reliability of the data collected by the scale; Cronbach Alpha (α) reliability co-efficients were calculated. As a result, it is found that the scale is a valid and reliable tool of measurement in its field. Therefore; this respective measurement tool is recommended to be used while defining the aesthetical perceptions of women.

Keywords: Aesthetical perception, Instagram, Consumption.

Introduction

With the ongoing progress in the area of technology; the newly emerging social media applications have started to take more and more place in our lives. Social media has been uniting people -and especially the new generation- seeking to get together with crowds in a social environment, adopting a social life. People have been finding what they were looking for on various applications and eventually the variety of the applications assembled people together on social media. (Kross, et al. 2021, pg.55–60).

Social media applications could be defined as softwares specially designed for sharing and following posts of videos, pictures, meals, travels, conversations and many more about people (Bhandarkar, et al. 2021, p.35-42). Although, in the beginning the first users of social media were perceived as unsociable, this idea had lately become extinct and social media people were acknowledged to be socialising merely with different means. Overtime; social media has even had further impact on economy rather than social institutions and become a tool of product advertisement and sales. (Pavithra and Deepak, 2021, p.1-5). Nevertheless, the impact of social media was not only on the economy. Various studies of today demonstrate that it had serious impact on educational institutions, too (Öztürk and Talas, 2015; Sarsar, Başbay and Başbay, 2015). Important studies were conducted with an attempt to utilize social media applications in the field of education. (Manu, et al, 2021, p.1-9). This situation shows that social media is not only an entertainment tool today, but also a new living space with many sociological institutions.

As social media enveloped the social structure, it created new forms of relationships, identities and a new language. And a new socialisation was ensured by the transfer of this new form from the old users to the new ones; creating a new culture of itself. (Elsaesser, et al., 2021, p.2-8). This new culture has turned social media into an indispensable new habitat for people.

“We are social Hootsuite” shares annual internet and social media utilisation rates every year. According to their 2020 rates, Instagram was the 3rd mostly preferred social media application with a total of 1 billion users around the world most of which are from the USA. There are 38 million users in Turkey which makes it the 6th on the worldwide list. Furthermore, Turkey is almost on all the top ten lists of social media user ratings and is said to be one of the top countries using Instagram application in Europe. (<https://medyaakademi.com.tr/2020/02/03/2020-sosyal-medya-kullanici-sayilari/> access, 13:16, 26.02.2021). In the light of the social media user ratings it seems that almost half of the 80 million population in Turkey (1 of every 2 people in other words) use Instagram application. That is a valuable information underlining the fact that social media is a digital platform today addressing to all age segments with various and multiple concepts. No matter which age segment prefers whichever social media application; it is a fact that almost everyone is situated within this structure somehow. (O’Regan, et al. 2017, p.112-116).

According to the study by Demiral and Hassan (2020, p.361-362) Turkey, -when compared with European countries- has a higher rate of using social networks and keeping online during the day. Study also suggests that offering practical every day solutions, accessibility, aestheticism and comfort are the main motives when it comes to choosing the best social media apps. (Demiral and Hassan, 2020, p.361-362). In addition, Nardalı and Balkan’s study (2019, p.178) states that according to the relevant research made on the substance; Instagram is the most effective social media application for launching new products in the market. From a sexual point of view the respective literature indicates young women’s tendency to show further attempt to be noticed, attracted, liked and seen cause Instagram to have a

deeper impact on young ladies. (Kandil, 2019, p.3). This is no new news. Traditional media organs have always been using female body and objectifying it by constantly defining a perfect female body. TV projects on cosmetics, aesthetic operations, diets, fitness, fashion or aerobics have always indicated a perfect female body alienating those who do not have such physical properties and socially differentiating them with a feeling of deficiency. It is a well-known fact that women have gone thru various aesthetic operations, tough diet programs, and cosmetic support to cope with it. (Suiçmez, 2018, p.67-68).

Cosmetics and textile industries have been explicitly using this aspect of women seeking beauty and a good appearance. Iconic social media accounts (social media phenomenon) play a key role advertising the cosmetic products to the women. This helps the market keep active all the time. Turkey is also the leading country launching cosmetic products thru those “phenomenon’s”. (Nardalı and Balkan 2019, p.177). This is undoubtedly not limited to Turkey and is supported by a greater supranational economical structure according to. Hardt and Negri define this as an “empire” to define women and the concept of beauty supranationally by industries such as cosmetics, textiles, aesthetic medicine, and fitness all around the world. They call it as a new duty which basically requires one to “surpass the other” and state this not as something individual but a way of imperialism to position itself over the main power allowing it to reach every single person in each and every country one by one; all around the world flawlessly without any boundaries. (Hard and Negri 2012).

During the traditional era; the human body was believed to be a sacred entity gifted by god. However, with the modern times, it became like an object to be designed thanks to the technological developments. In these modern times the body is like an outfit: waiting to be shaped and formed as you like. (Şişman, 2012). This shows how the body is no longer static but constantly in need of being attended to and designed upon. (Baudrillard, 2016, p.164-165). Under such circumstances contemporary “power” did not leave the body alone. With growing imperialist powers, a “fluidity” was required in order for the power to be present at multiple locations

(including people's bodies) simultaneously. (Hardt and Negri, 2012, p.25-64). To achieve that in modern times everything traditional (the matter included) was evaporated and the fluidity in time and place was ensured (Bauman, 2019, p.25-33). In this context, each and every human body -as quoted by Foucault- was disciplined to become a conveyor of the main power. (Özmkas, 2018, p.57-70).

In these modern times, human body -deemed as important; dominated by the main power and obliged to be ruled- was not "left alone" but granted with some motivational elements (Foucault, 2015). Interferences with the body or the motivations laying behind the rectifications on the body have absolutely become important signs to comprehend the process itself. (Baudrillard, 2016, p.164-194). Bourdieu suggests the source of such a motivation to be appreciation. The body is the conveyor of various images and the source of differentiating symbols. Appreciation aims at being differentiated from the others and estranging oneself. Every outfit or product is correlated with a specific social class. Even the choice of exercise defines the sexes from the scratch. (Bourdieu, 2015, p.276-298). According to Girard, another motive to regulate one's own body is about mimetic inclinations (2010). This theory is based on a belief that the desires one pursues do not belong to him/her but s/he actually pursues the dreams of others assuming that they are his/hers. According to this theory, desire has a social aspect. As a recap; the things we desire do not belong to ourselves but are actually based on realizing other people's dreams (Girard, 2010, p.48-75). From this point of view; formation of women body does not belong to women themselves but could be defined as a common social expectation -such as the description of an ideal body- designed by fashion designers, cosmeticians, social media influencers' or aestheticians. The desire of women to be appreciated (Girard, 2010) and the need for differentiating oneself from the others within the society (Bourdieu, 2015) brought together the social media visibility with Instagram. One could say the engagement of appreciation and desire in Instagram has initiated new life styles. In this context; visibility stands out further on Instagram than any other social media. Women on Instagram compare themselves to the other users based on their level of physical

attraction always focusing on their "shortages constantly tracking a fulfilment pattern (Couture Bue, 2020, p.1817-1818). This state of imperfection leads to an infinite body reformation. Considering from this perspective, social media sets a role model in terms of women body reformation; like a preferred stage for the body subject to that formulation. A measurement tool is necessary in this field. Therefore, the purpose of this study is to establish an Aesthetic Perception Scale in order to fulfil this sociological gap as well as analysing psychometrical aspects of its.

Objective of the Study

The aim of this research is to develop a new measurement tool to define whether the use of Instagram affects women's aesthetically personal designs; and to contribute to the field of sociology by confirming the validity and reliability of this new Aesthetic Perception Scale.

The Method

The Research Model

The purpose of this study is to develop an Aesthetic Perception Scale tool and define psychometrical aspects of it. The research is a descriptive and quantitative study designed with a screening model. Screening studies are defined as a display of existing situations as they are. (Karasar, 2012).

Scale Development Process

Establishing The Item Pool

In this study; a pre-test was carried out in order to establish the item pool. With this purpose; a pre-test study was performed with 20 university students that represent the targeted system. This pre-test was conducted face to face. The items on draft scale could be comprehended and filled out accordingly by the attendants in 15 minutes.

An item pool was established to measure the structure of this research which aims at determining the aesthetical impact of Instagram on women body. During the process of establishing the item pool; the respective literature was reviewed. The motives and the purposes for women to use Instagram was also studied. measurement tools used previously regarding other and/or similar social media

applications were reviewed and utilized. (Turan, 2019; Zümüt, 2016). Furthermore, few theories from relevant literature were reviewed to analyse the structure sociologically (Baudrillard, 2016; Bauman, 2017; Bourdieu, 2015; Castellls, 2008; Castells, 2013; Dağ, 2018; Foucalut, 2015; Girard, 2010; Hardt and Negri, 2011; Hardt and Negri, 2012; Sennet, 2013). 114 items were initially written after all those reviews and readings.. Following that, 2 experts with PhD degree in sociology and an assessment and evaluation specialist made a preview and considered some of the items as inadequate in terms of measuring the corresponding structure. And they also found out that some of the items were identical on the measurement tool. In this context; the measurement tool was revised and reduced to 73 items. It is a Likert measurement tool and designed for self-examination. The tool was 5-level-rated as “absolutely agree”, “agree”, “indecisive”, “do not agree” and “absolutely do not agree”.

Taking Expert Opinion

After completing the item pool; expert opinion was required in order to prove the context validity of the measurement tool. In this regard; a total of 13 expert opinions were taken (being 7 experts from the field of Sociology, 1 as assessment and evaluation specialist, 2 experts from the field of teaching Turkish language, another one from psychological counselling and guidance, and 2 more experts from Psychology) in order to assess the legibility and compliance of the draft items prepared for the **Aesthetic Perception Scale (APS)**. 7 of the experts had their PhD degrees. Those experts were presented an expert evaluation form on which they were asked to rate each item on the measurement tool as (1) as relevant, (2) relevant but needs improvement and (3) for irrelevant. Law she (1975) approach was adopted while evaluating the content validity of those items and the number of 13 experts were taken into account for calculating the content validity rate (CVR). The lowest critical value was found out to be 0,544 (for $p = 0.05$ - Wilson, Pan and Schumsky, 2012). All items were calculated regarding their CVR values and as a result; 9 of the items rated below 0,544 were eliminated off the form. Eventually 64 items were maintained on the form.

Application

A preliminary trial was conducted to determine the comprehensibility of the 64 items by women at the university and also in order to define the duration of the application of the Aesthetic perception scale to them. A preliminary trial was conducted to 20-university student women who showed the same characteristics as the target study population. In this preliminary assessment performed face to face, it was determined that the scale was understood by the students; and that the test exam and could be completed in approximately 15 minutes.

Study Group

In the framework of the pilot application of the scale draft prepared, the two-step sampling method was used. Since the population of the study to be conducted is women, in the first step, the cities of Istanbul, Izmir, Erzurum and Ağrı were determined in light of the intentional sampling method. The reason for choosing these cities is that they allow the comparison between the east and the west of Turkey, and even though the literal meaning in this comparison is as seen by everyone, it allows regional socioeconomic and sociocultural sociological evaluation in connotation. In addition, it was aimed for the researcher to reach the sample more easily during the pandemic period. In the second step, in accordance with the purpose of the study, the women for sampling were selected based on their level of higher education and their use of Instagram. For this purpose, a total of 716 people, 216 in Istanbul, 193 in Izmir, 165 in Erzurum and 142 in Ağrı, voluntarily participated in the study. As a result of the preliminary examination, it was determined that some of the participants did not use Instagram, and therefore the research was carried out with a total of 689 people, 208 in Istanbul, 184 in Izmir, 158 in Erzurum and 139 in Ağrı. During the data clearing phase, the data of 14 women who did not respond to the items to a large extent and were out of ± 3 values as a result of the extreme value calculations were excluded from the analysis, and the data were calculated with a total of 676 people. Intentional sampling method is a frequently preferred method in scale development studies. In addition to these, it is stated that it is necessary to consider the design

of the scale, its structure and the technique to be used in the analysis of the data, especially in cases of scale development to be reconstructed other than adaptations (Erkuş, 2012). At the beginning of the pilot implementation phase of the work to be carried out; in order to work with a sample that can represent the subject being measured, it is aimed to reach as many people as possible in a more economical and simple way by using intentional sampling method. The principle of including ten people for each item in the scale study, which is used as a general principle for exploratory factor analysis in studies of scale type; as an example, it was stated that a sample of 100 people is required for a 10-item study to be used

in the scale (Akgül, 1997; Culha, 2016, p. 106;). Therefore, the number of women participating in the study was specifically intended to be at least 10 times the number of items in the scale, taking into account the validity and reliability data analysis to be made on the results to be derived from the measurement data. It is stated in the literature that the number of women to participate in the study must be at least 5 times the number of items in the scale in order to carry out Explanatory Factor analyses to find evidence for direct construct validity (Büyüköztürk, 2012). In the context of the study, the information and findings of some socio-demographic conditions of the pilot group are given in Tables 1 and 2.

Table 1: Frequencies and Percentages of the Demographic Information of Instagram user Participants Selected for the Trial / Pilot Study Group

Variable	Category	f	%
Have been an Instagram user for ...	1-2 years	152	22,5
	3-4 years	202	29,9
	5-6 years	241	35,6
	7-8 years	61	9,0
	9-10 years	20	3,0
Daily online hours spent on Instagram	1-3 hours	285	42,2
	4-6 hours	314	46,5
	7-9 hours	65	9,6
	10 hours and more	11	1,6
	N/A	1	0,1
Does the profile name match the real name	Yes	606	89,6
	No	70	10,4
Is that you on the profile photo	Yes	554	82,0
	No	122	18,0
Notifications turned on?	Yes	489	72,3
	No	187	27,7
Accessible and non-private account	Yes	45	6,7
	No	631	93,3
Re-activating the Instagram account	Yes	446	66,0
	No	230	34,0
Owns a fake Instagram account	Yes	234	34,6
	No	442	65,4
Number of followers on Instagram	0-250 people	99	14,7
	251-500 people	137	20,3
	501-1000 people	174	25,7
	1001-5000 people	261	38,6
	5001-10,000 people	3	,4

Number of followers on Instagram	10,001 people or more	2	,3
Total number of accounts she is following on Instagram	0-50 people	39	5,8
	51-100 people	102	15,1
	101-200 people	177	26,2
	201-300 people	193	28,6
	301-500 people	106	15,6
	501 people or more	59	8,7
Total		676	100,00

When Table 1 is examined, it is seen that the total years of using Instagram is maximum between 5 and 6 years and is minimum between 9 and 10 years. When the daily online hours are examined, we see that approximately half of the participants use it for 1 to 2 hours and the other half for 3 to 4 hours. The majority of the group has their own name and surname and an Instagram account with their own photo. While most of the participants keep their notifications on; they also pay attention to their

privacy. The majority of the participants turned off and reactivated their accounts. When the distribution is examined according to the number of followers, it is observed that the maximum number of followers is between 1001 and 5000, while the minimum is between 0 and 50 people. When we examine the number of people that the women follow; we see that maximum number of people followed is between 201-300 people, while minimum is 0-50 people in this regard.

Table 2: Frequencies and Percentages of Participants' Demographics that are Selected for the Trial / Pilot Study Group

Variable	Category	f	%
City where her university is located	İstanbul	201	29,7
	İzmir	183	27,1
	Erzurum	155	22,9
	Ağrı	137	20,3
Industry where monthly income is mostly spent	Clothing	274	40,5
	Personal hygiene & make-up	174	25,7
	Social Activities	32	4,7
	Cultural Activities	13	1,9
	Travel and holidays	13	1,9
	Educational Expenses	148	21,9
	Other	22	3,4
Total amount of clothing, make-up, accessories, jewellery and hairdresser expenses/month	Between 0-500 TL	433	64,1
	Between 501-750 TL	114	16,9
	Between 751-1000 TL	124	18,3
	1001 TL and more	5	,7
Faculty attended	Literature	189	28,0
	Medical Sciences & Health	358	53,0
	Technical Faculties & Engineering	43	6,4
	Applied Sciences	65	9,6
	Other	21	3,0
Monthly Budget	Between 0-650 TL	195	28,8
	Between 651-1300 TL	163	24,1

Monthly Budget	Between 1301-2000 TL	174	25,7
	Between 2001-3000 TL	94	13,9
	3001 TL and more	50	7,4
Family based in.....	City Centre	326	48,2
	County Centre	211	31,2
	Town	19	2,8
	Village Centre	120	17,8
Age	Between 17-19	145	21,4
	Between 20-22	357	52,8
	Between 23-25	105	15,6
	Between 26-28	26	3,8
	Between 29-31	18	2,7
	32 and up	25	3,7
Total		676	100,00

When Table 2 is examined, it is seen that the distribution of the participants per city is close to each other. It has been found out that the participants allocate their income mostly to clothing, then personal care and make-up, and least to cultural activities and travels. Considering the distribution of the amount of money that the participants spend on clothes, jewellery, make-up and hairdressers per month, it was determined that the majority of the group spent between 0-500 TL. It is seen that the majority of the participants in the study attend to the faculties of Medicine and health sciences and only a minority attend to the Engineering and Technical faculties. When the monthly budgets of the participants are examined, it is seen that they are close to each other. It was determined that approximately half of the participants lived in the city centre and one third lived in the county centre. Looking at the distribution by age, it is clear that about half of them are between 20-22 years old and only a few are between 29-31.

Data Analysis

In the study, the final version of the scale consisting of 64 items was applied to the study group in the pilot application, and one of the factor detection methods, "Principal Component Analysis" was used to determine the factor structure of the scale prepared on the data. Kaiser-Meyer-Olkin (KMO) and Barlett globularity tests were used to measure the compatibility of the resulting data with factor analysis. It is explained that the Barlett Globularity

Test is statistically significant considering that the items in the scale are related to each other and the matrix of the data is suitable for factor analysis. It is also explained that the Barlett Globularity Test is statistically significant considering that the Kaiser-Meyer-Olkin values are 0.50 and above, (Büyükoztürk, 2012; Field, 2009). In determining the number of factors to be used in the scale, the scree plot, the eigen values of the factor, the opinions and suggestions of the experts and the contents of the scale items were taken into consideration. It was deemed appropriate to take the limit value of 0.32 for factor loadings, which is considered as evidence of the connection of all individual items with the relevant factor (Tabachnick & Fidell, 2013). Items with a load below these rates were excluded from the scale. While performing factor analysis for the scale, rotation was used as a method. While using rotation, both oblique rotation and vertical rotation methods were collected and the items in the tested scale were collected and aggregated in a meaningful way by varimax rotation method. The Cronbach Alpha (α) number was calculated as the reliability coefficient in order to prove the reliability of the measurement results obtained in the study.

While reporting the item-total correlation coefficients in the scale, the indicator of item discrimination was taken as evidence. When evaluating the internal consistency data coefficient in the scale, the value of the reliability coefficient of 0.70 or above is interpreted as reliable. (Salvucci,

et al., 1997). Internal consistency, item-total correlation data coefficient value of 0.20 and above indicates that each item works in harmony with the whole scale (Crocker & Algina, 2006). SPSS 25 statistical program was used for data analysis and calculations in the context of the study.

Ethical Compliance

While conducting the actual implementation and pilot study of this research, publication ethics rules were followed and the study was not sent to other journals for evaluation. The compliance of the research with ethical principles has been documented by the ethics committee verdict. The participants were informed that they should behave honestly and sincerely while answering the questions and that the data obtained in the research would not be abused.

Findings

Kaiser-Meyer Olkin and Barlett globularity test were conducted during the pilot application of the study to check whether the data were suitable for factor analysis. The resulting findings are presented in Table 3.

Table 3: KMO and Barlett Test Results

Kaiser-Meyer-Olkin (KMO)		0,90
Barlett Test	χ^2	13 884,23
	sd	2 016
	p	0,000

When Table 3 is examined, it is seen that the KMO value is 0.90. Accordingly, it shows that the data has a factorizable structure (Field, 2009). When the Barlett globularity test results are examined, it is seen that the resulting data is statistically significant ($\chi^2 = 13 884.23$; $p < 0.05$). The resulting value clearly shows that all of the items on the scale are related to each other. Along with these, the significance in the values of the globularity test is explained as it carries multivariate normality (Büyüköztürk, 2012). In order to determine the factor structure of the data obtained in the pilot study of the research, its suitability was tested and then the Exploratory factor analysis was performed without applying any restrictions to the number of factors. After testing the suitability of the obtained data for factor analysis, in the first step,

Explanatory Factor Analysis was performed without any restrictions. In the data found, it was observed that there were 15 factors with an eigen value above 1 in the first stage. The eigen values and explained variances for all factors are given in Table 4 with their rates.

Table 4: Eigenvalue, variances and Total Explained Variance Rates

Factors	Eigen value	Explained variance (%)	Total explained variance (%)
1	11,97	18,70	18,70
2	3,73	5,83	24,53
3	2,68	4,19	28,72
4	2,09	3,27	31,99
5	1,95	3,05	35,04
6	1,75	2,74	37,77
7	1,54	2,40	40,17
8	1,41	2,21	42,38
9	1,38	2,15	44,54
10	1,32	2,05	46,59
11	1,27	1,98	48,58
12	1,21	1,89	50,47
13	1,09	1,69	52,16
14	1,06	1,66	53,82
15	1,05	1,64	55,46

As shown in Table 4, a total of 15 factors emerged with an eigen value above 1. The eigenvalue of the first factor is 11.97 and the variance value explained by this first factor alone is 18.70%. The total revealed variance rate explained by the 15 factors obtained in the study is approximately 55%. When the eigen values of the related factors are considered, it is observed that the rate of decrease in the eigen value after the third factor decreases. In order to determine the number of factors to be included in the scale, the scatter plot of the eigen values was also carefully examined.

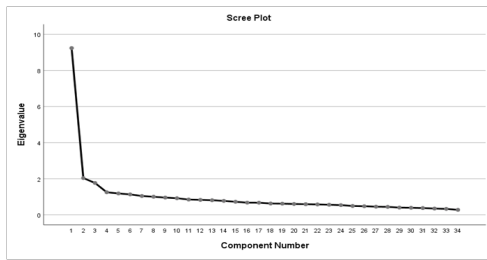


Chart 1: The Scatter Plot of Factor Eigen Values

As shown in Figure 1, it is seen that the main refraction in the eigen values themselves is between the first factor and the second factor. In the scatter plot, it is observed that the distance between the eigen values decreases especially after the third factor and they are very close to each other. Considering the expert opinions about the scale, the results of Explanatory Factor Analysis and the theoretical

structure, it was decided that the number of factors that should be in the scale should be three.

After determining the number of factors related to the scale, the Exploratory Factor Analysis was re-analysed by fixing it to three factors. The Varimax rotation method was preferred in order to understand more clearly to which factor the items were loaded. When the findings obtained in the scale were examined, four items (m3, m6, m62, m64) listed below 0.32 and 24 items (m1, m2, m12, m15, m17) that loaded on more than one factor (overlapping item) , m18, m19, m21, m22, m24, m26, m31, m32, m33, m34, m35, m36, m38, m42, m54, m58, m60, m61, m63) have been removed from the corresponding measuring tool. The final version of the measurement tool consists of a three-factor structure and 36 items.

Table 5: Factor Load Values, Eigen Values and Explained Variance Rates of the Final Aesthetic Perception Scale

	Factor 1		Factor 2		Factor 3	
	Item Number	Factor Load	Item Number	Factor Load	Item Number	Factor Load
	m4	0,69	m16	0,40	m13	0,58
	m5	0,71	m20	0,67	m14	0,47
	m7	0,41	m23	0,49	m25	0,50
	m8	0,66	m27	0,54	m29	0,46
	m9	0,36	m28	0,65	m37	0,38
	m10	0,51	m30	0,37	m40	0,33
	m11	0,52	m39	0,47	m43	0,40
	m41	0,53	m51	0,47	m44	0,33
			m53	0,46	m45	0,69
			m55	0,43	m46	0,68
					m47	0,68
					m48	0,67
					m49	0,63
					m50	0,50
					m52	0,48
					m56	0,43
					m57	0,44
					m59	0,60
Eigenvalue	1,79		2,08		9,73	
Explained Variation (%)	4,98		5,77		27,04	
Total Explained Variance (%)	37,79					

As seen in Table 5, the eigen value of the first factor is 1.79 and the variance value explained is approximately 5%. It is seen that the factor load intervals of the first factor vary between 0.36 and 0.71. The variance value explained by the second factor as 2.08 is seen as 5.77%. Factor load ranges related to the second factor differ between 0.37 and 0.67. The eigenvalue of the third and last factor is 9.73 and the variance ratio it explains is 27.04%. The factor loading values of the items of the third factor differ between 0.33 and 0.69. The total variance

value explained for these three factors to be used in the scale is approximately 38%. Considering the theoretical structures and item expressions used for the three factors used in this study, the first factor was named "Consumption", the second factor "Perception" and the third factor "Body and Aesthetics".

While calculating the relations of each factor used in the study with other factors and factor total score, Pearson Product Moment Correlation Coefficient was used and the findings of them are given in Table 6.

Table 6: Pearson Moment Correlation Coefficient Values for the Relationships Between Factors

		Consumption	Perception	Body & Aesthetics	Total
Consumption	r	1			
	p				
Perception	r	0,50**	1		
	p	0,000			
Body& Aesthetics	r	0,60**	0,65**	1	
	p	0,000	0,000		
Total	r	0,78**	0,82**	0,93	1
	p	0,000	0,000	0,000	

*p<0,05; **p<0,01

As shown clearly in Table 6, when the proportions are examined in general, the sub-dimensions of the scale show a moderate relationship with each other. Considering the relationship between the sub-dimensions of the scale and the total score of the scale, it is seen that this relationship is at a high level. While the consumption sub-factor has a correlation of $r = 0.78$ with the overall scale, the correlation between the scores of the perception factor and the scores obtained from the calculations made with the overall scale is $r = 0.82$, and the scores obtained from the body and aesthetics sub-factor, which is the last factor, are $r = 0$ with the scores calculated for the overall scale. It appears to give a correlation of 93. These coefficients obtained are statistically significant at the level of 0.01. The sub-factors of the scale are found to be highly correlated with the entire scale. This can be interpreted as the whole scale measures the same main structure with the sub-factors.

In the study, exploratory factor analysis was performed in order to provide evidence for the construct validity of the measurements obtained

from the Aesthetic Perception scale, and then the Cronbach's Alpha (α) reliability coefficient ratios were calculated in order to reveal the reliability of the obtained measurement results. Calculated findings are given in Table 7.

Table 7: Reliability Coefficient Values of the Measurement Results Obtained from the Sub-factors of the Aesthetic Perception Scale and Overall

	N*	Cronbach Alpha (α)
Consumption	8	0,775
Perception	10	0,746
Body and Aesthetics	18	0,888
Total	36	0,916

*N: number of items

As stated in Table 7, the resulting reliability coefficient values for the sub-factors and overall, of the scale were measured between 0.746 and 0.916. The resulting data show that the measurement findings are highly reliable (Salvucci et al., 1997). In order to determine the final state of the aesthetic

perception scale, item statistics were measured with relevant data are given in Table 8.
the rectified item-total correlation values and the

Table 8: Item statistics and Rectified Item-Total Correlation Values for the Final Version of the EPS

Item Number	Item Avg. (\bar{X})	Rectified Item-Total Correlation (r)	Item Number	Item Avg. (\bar{X})	Rectified Item-Total Correlation (r)
m4	2,70	0,22	m39	2,40	0,61
m5	2,83	0,34	m40	2,02	0,47
m7	2,50	0,41	m41	2,52	0,55
m8	2,33	0,42	m43	2,03	0,50
m9	2,29	0,53	m44	2,26	0,49
m10	2,58	0,52	m45	1,91	0,49
m11	2,27	0,53	m46	1,82	0,61
m13	1,59	0,49	m47	1,75	0,50
m14	1,76	0,59	m48	1,80	0,53
m16	2,85	0,31	m49	1,63	0,61
m20	2,57	0,42	m50	1,83	0,57
m23	2,55	0,38	m51	2,90	0,47
m25	1,89	0,54	m52	1,77	0,60
m27	2,48	0,30	m53	2,42	0,35
m28	2,08	0,51	m55	2,17	0,37
m29	2,05	0,51	m56	2,04	0,53
m30	2,69	0,30	m57	2,27	0,47
m37	2,27	0,29	m59	1,95	0,47
Item Average For Overall Scale			:	2,22	
Item Total Correlation Values For Overall Scale			:	0,24	

As indicated in Table 8, the averages of the items in the scale vary between 1.59 and 2.90 values. The mean values of 2.22 items were reached for the overall scale. It is observed that the total correlation rates of the items differ between the values of 0.22 and 0.61, and the average of the data for the total correlations of the items calculated for the whole scale is 0.24. The fact that the coefficient values of item-total correlations for the whole of the scale are above 0.20 can be interpreted as that the items work in accordance with the whole test (Crocker and Algina, 2006).

Discussion and Conclusion

Social media applications, where communication and sharing are at the centre, have started to be at the centre of our lives with the effect of the Pandemic (Yıldırım and İpek, 2020, p. 69). With the

introduction of social media into our lives, a new form of socialization has formed, social media has not only been virtual, but has become a structure that changes and transforms our lives. In addition, social media has managed to create a new lifestyle with its own concepts, influencers and the language of emoticons (Arklan and Akdağ, 2016, pp. 16-31). For these reasons, many people have started to meet their need to socialize through social media. As a result, social media has settled in the centre of many people's lives and has started to affect many aspects of our lives. Advertisements for the brands of businesses related to fashion, clothing and personal care products are now made through influencers. It can be said that the fact that these advertisements are made by such influencers following a natural process, not advertising, but advice, has made social media an important and liberal space in terms of

women's aesthetic evaluations. All these processes have caused a significant incident; The intense effect of social media on women's aesthetic perceptions. In this context, the aim of the study is to develop a measurement tool that reveals the effect of Instagram on women's aesthetic perceptions. The Aesthetic Perception Scale (APS) developed for this purpose, consists of a total of three factors and 36 items. The eigen value of the first factor is 1.79 and the variance value it explains is approximately 5%. It is seen that the factor load intervals of the first factor vary between 0.36 and 0.71. The variance value explained by the second factor as 2.08 is seen as 5.77%. Factor load ranges related to the second factor differ between 0.37 and 0.67. The eigenvalue of the third and last factor is 9.73 and the variance ratio it explains is 27.04%. The factor loading values of the items of the third factor differ between 0.33 and 0.69. The total variance value explained for these three factors in the scale is seen as approximately 38%.

It is seen that there is a difference between the values of 0.22 and 0.61 for the total correlation rates of the items under the scale factors. These values obtained in the study show that the scale items prepared on three factors are compatible with the whole of the scale (Crocker & Algina, 2006). It is seen that the relationship levels between the dimensions of the scale vary between 0.78 and 0.93. When the relationships among the scale factors are examined, it was found that they are moderately correlated with each other. Considering the relationship between the sub-dimensions of the scale and the total score of the scale, it is seen that this relationship is at a high level. This can be interpreted as the whole scale measures the same main structure with the sub-factors. It was measured that the reliability coefficients of the values obtained as a result of the scale analysis varied between 0.746 and 0.916. These results for the sub-dimensions and general of the scale show that a highly reliable scale has been obtained (Salvucci et al. 1997). "Consumption" factor comes first when we examine the aesthetic perceptions of women on social media by the items obtained with three relevant factors. The items in the first factor related to the scale include the motivation of using Instagram, the purpose of using Instagram, the effect of consumption and technology on aesthetics, the relationship between consumption

and aesthetics, and the effect of Instagram on the aesthetics of women. Because, in previous studies in the literature, different studies have been conducted on Instagram's consumption and its effect on economic relations (Aygül and Gürbüz, 2019, p.162-207; Birol, 2014, p.82-92; Bulut, 2020, p.521-539; Demir, 2017, p.277 -287; Demiral and Hassan, 2020, p.361-371; Gökaliiler, and Alikılıç 2015, p.120-134; Nardalı and Balkan 2019, p.185-186). The second factor of the scale was named "Perception". This factor includes items that show the rate of women using Instagram, the number of followers, how they feel themselves on Instagram, their desires, feelings, and their perspective towards brands. Brands, which are among the important effects of social media on people, and their effect on people, identity formation, marketing of fashion, communication and perception are available in studies (Armağan, Karakulle and Karademir, 2019, p.2-13; Cukul, 2011, p.116-117; Kuşay, 2014, p.37-38; Özgökbek and Bilis, 2018, p.314-329). The third factor of the scale is named as "Body and Aesthetics". This third factor includes Instagram, consumption and perception, as well as indicators related to body and aesthetics. In this context, borrowing for the body, appearance of the body and happiness, feeling deprivation, traditional values and body relationship, aesthetics and filters, perspective on aesthetic surgeries, aesthetic and bodily risks, Instagram body and expenses, friends' bodies, fashion and desire to own, an investment there are points such as the body as a tool and self-suffering from the perfection of other bodies. In this regard, in the literature; There are various studies on social media, fashion, identity, selfie applications, instant communication effects, privacy as traditional values, female body and aesthetics. (Değer, 2019, p.166-176; Fidan and Acar Şentürk, 2016, p.64-82; Gültekin, 2019, p.345-359; Uzundumlu, 2015, p.227-248).

Research Limitations and Recommendations

As stated by Karaçam (2015, p.87-97) regarding limitation, interpretation of data to reveal internal and external validity, generalizability, are problems related to theory and methodology. The limitations of this study are, as in other studies, are the limitations of time and costings. In addition, with the pandemic

period, there were difficulties in reaching the sample, the large study area and the women using Instagram. The study was carried out in a total of four counties and can be done in different groups and university students in different counties. In addition, similar studies on different social media platforms can be explanatory in terms of enlightening the subject and making comparisons.

As a result, the values obtained by using expert opinions, exploratory factor analysis and Cronbach alpha coefficient provide evidence that the measurements to be obtained from the developed measurement tool are reliable and valid. In this context, the effect of Instagram, which is one of the social media tools, on women's body understanding can be determined by using the existing measurement tool.

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