Regional Differences in Physical Appearance Identity among Young Adult Women in Thailand

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Abstract

Physical appearance concerns lead to serious health compromising behaviors among women in Thailand, but existing studies may not be generalizable to young women in Thailand. The purpose of this study was to examine differences in physical appearance identity among young women in four regions of Thailand based on 30 physical appearance characteristics generated and validated in two previous samples of young Thai women. Using Q methodology, 200 Thai young women sorted the physical appearance characteristics in terms of importance. Across-region differences exist for the most important physical appearance characteristics. Regional differences in physical appearance identity may explain the variety of behaviors used by Thai women to enhance their physical appearance. Further research should focus on regional factors that contribute to these aspects of physical appearance becoming a dominant source of self-definition so that effective prevention strategies can be developed and targeted to women at high risk.

Keywords: physical appearance; identity; women; Thailand; Q methodology
Background

Physical appearance concerns are prevalent among women in many countries (e.g., Demarest & Allen, 2000; Jaeger et al, 2002; Hayashi, Takimoto, Yoshita, & Yoshiike, 2006; Polivy & Herman, 2004) and can lead to negative affects (e.g., depression, low self-esteem) and health compromising behaviors (e.g., self medication including diet pills, laxatives, diuretics). Specifically in Thailand, young women engage in widespread use of oral and injectable supplements (e.g., glutathione), illegal and unsafe forms of skin-whitening creams, cosmetic treatments and surgery, diet pills and weight loss supplements. The data show that appearance concerns among young females are higher than in any other age groups (Cash & Henry, 1995).

In Western cultures, physical appearance concerns in young women are tied predominantly to body weight and shape (Annis, Cash, & Hrabosky, 2004; Brown & Dittmar, 2005; Markus, Hamill, & Sentis, 1987). However, ideal physical appearance among young women in Thailand is likely to encompass much more than just body weight and shape (Thianthai, 2006; 2008). In Thailand, in addition to extreme thinness, ideal physical appearance is also tied to fair skin, an oval face, a high and narrow nose bridge, wide eyes, and tall stature (Hesse-Swain, 2006; Rush, 2007), though the importance of these characteristics may differ for young women in the four different regions of Thailand.

Thailand is divided into four main geographical regions: the North East region, which borders Cambodia and Laos; the Central region, surrounding Bangkok; the North region, bordering on Laos and Myanmar; and the South region, bordering Malaysia. Each region is associated with a distinctive physical appearance which may lead to regional variation in the characteristics of ideal physical appearance. For example, the focus on light skin may be more important among women in the South region of Thailand where it is hotter and sunnier and skin
color tends to be darker. Body weight and shape may be perceived as most important to women in Central region of Thailand because of intense media influence and exposure to fashion trends. Facial features may be more salient among women in the North East region of Thailand because their faces tend to be wider and nose bridges tend to be flatter than other regions, and in the North region of Thailand women may place greater importance on eye shape because most of their ancestors emigrated from China so they tend to have the almond eye shape of their Chinese heritage. When young Thai women deem physical appearance as a centrally defining feature of who they are and their worth as a person, they often turn to extreme health compromising behaviors to alter their physical appearance to align more closely with their ideals.

Physical appearance in western society has focused primarily on body weight and shape (Grabe & Hyde, 2006; Ip & Jarry, 2008; Rudiger, Cash, Roehrig, & Thompson, 2007; Stein & Corte, 2007; 2008). However, different cultures may emphasize different aspects or components of physical appearance. The components of physical appearance identity among Thai women have not been studied. Because of regional differences in phenotypic characteristics (e.g., skin color, facial appearance) and sociocultural difference in context or experiences (e.g., pressure from family and friends, media exposure, and cultural norms or beliefs), physical appearance identity among young Thai women may differ for women in each of the four regions of Thailand.

Purpose of the Study

The purpose of this study was to examine the similarities and differences in the characteristics of physical appearance identity among young adult Thai women in four regions of Thailand (Central, North, North East, and South). The research question guiding this study was “How do the important domains of the characteristic of the physical appearance differ among
young adult women in the four regions of Thailand?” The results of this study are intended to provide a more refined understanding of physical appearance identity and the components of physical appearance among young adult women in Thai, beyond the focus on body weight and shape which predominates in Western research.

**Setting and Sample**

The study was conducted in four regions of Thailand. The participants were 200 young adult women, 50 from each region, recruited from public places such as beauty shops and health clubs. The sites were chosen because these sites are locations where large numbers of young Thai women who are interested in physical appearance can be found. The eligibility criteria required that participants be: 1) female ages 18 to 24 and 2) born and living in the geographic region of the study site. Written informed consent was obtained from all participants. A convenience, purposive sampling method was used to recruit participants.

**Methods**

In this study, we used Q methodology, which has the strengths of both qualitative and quantitative approaches (Dennis & Goldberg, 1996). Q methodology has been used to examine subjective attitudes, beliefs, or values (Amin, 2000; Jacobson & Aaltio-Marjosola, 2001; Prasad, 2001, Venables, Pidgeon, Simmons, Henwood, & Parkhill, 2009). With this methodology, participants sort cards each labeled with a characteristic (e.g. a physical appearance characteristic) according to the perceived importance of the characteristic. When a standard questionnaire is used, cultural differences in physical appearance identity may increase measurement error. Q methodology can reduce the response biases (i.e., avoiding extreme answers) that frequently occur in Asian populations when using traditional methods such as questionnaires with Likert scales (Polit & Beck, 2004).
**Identifying the Physical Appearance Characteristics.** The first step of Q methodology is to identify the characteristics to be used in the Q sort by using different sources of information (Brown, 1996). The list of characteristics, which is called the ‘concourse,’ was developed using free listings, in which 78 physical appearance characteristics were generated by a previous sample of demographically similar women in Thailand. These characteristics were later validated with another sample of young Thai women using focus group discussions. The 30 physical appearance characteristics mentioned most frequently in the free listings and later validated by focus group discussions were used in this study. The 30 characteristics consisted of 6 characteristics in each of 5 domains: facial appearance (oval face, bright [radiant] facial skin, big eyes, high nose bridge, beautiful lips, and nice teeth), body weight and shape (shapely, full breasts, small waist, beautiful hips, flat belly, and skinny), skin (bright skin, smooth skin, white-pink skin, honey skin, tan skin, and white skin), hair (long hair, short hair, straight hair, wavy hair, brown hair, and black hair), and general appearance (slim fingers, slender neck, broad shoulders, long fingers, petite frame, and large frame). Once identified, each characteristic was typed onto a separate card for use in the Q sorting task.

**Procedure.** The data were collected in individual sessions using a template grid and the set of 30 cards. The template had a grid layout of a normal distribution, with column heights ranging from 1 at the extreme left and right, to 6 in the central column. Each column was labeled with a value from -5 = least important (extreme left column) to +5 = most important (extreme right column), with the central column 0 = neutral or not sure (see Figure 1).

Participants were asked to rank-order the 30 characteristics of physical appearance using the following script: “I placed a grid in front of you. Here are 30 cards—each has a physical appearance word on it. You will rank each of the 30 cards on the grid. Characteristics that you
think are most important go on the right, and characteristics that you think are least important go on the left. Those of moderate importance go somewhere in the middle. It is acceptable for you to move the cards as many times as you want to until you are satisfied with the placement of the characteristics. The only rule is that you can place only one card on each space. If you have any questions feel free to ask me at any time.”

Data Analysis

Each card, which is labeled with a unique code number, is entered onto a data coding sheet with a normal distribution grid. See Figure 2.

The data were then entered into Predictive Analytics Software, PASW Statistics (formerly SPSS). First, we conducted a variable-centered factor analysis to examine regional differences for the most important physical appearance characteristics identified by women in each region. Second, we used person-centered factor analysis to identify subgroups of women within each region. Using PQMethod 2.11 for Windows we conducted principal components analysis with varimax rotation to identify subgroups of women characterized by a unique set of physical appearance characteristics based on their perception of the characteristics they deemed most important.

Results

Mean age of the sample was 20.4 years (SD=1.56) and mean BMI was 19.6 kg/m². Two percent of the women were severely underweight (BMI <16 kg/m²), 3.5% were moderately underweight (BMI 16.0-16.9 kg/m²), and 26.5% were mildly underweight (BMI 17.0-18.49 kg/m²). Sixty-five percent were within normal range (BMI 18.5-24.9 kg/m²) and only 3% of the women were overweight (BMI > 25 kg/m²).
Variable Centered Factor Analysis by Region. In order to obtain factor scores (Z scores) for each item so that we could determine those characteristics that the young women deemed most important, we constrained the factor analysis to one factor. The factor scores revealed that ‘shapely’ was the most important physical appearance characteristic for participants in all four regions (Central = 2.32; North East = 1.80; North = 1.92; South = 2.01). Women in the Central region had the highest factor score for ‘shapely.’ The second most important physical appearance trait for young women in all four regions was ‘bright face skin’ (Central = 1.57; North East = 1.70; North = 1.81; South = 1.69). The third most important physical appearance trait for young women all four regions was ‘white-pink skin’ (Central = 1.57; North East = 1.02; North = 1.47; South = 1.55). Women in the North East region placed more importance on high nose bridge, big eyes, and oval face than did those in the other regions (1.23, 1.18, and 1.02 respectively). Young women in the South region were more concerned with white skin than were women in other regions (1.08). See Figure 3.

Person-Centered Factor Analysis by Region. Next, we conducted person-centered factor analysis by region to identify subgroups of women within each region that differed according to the physical appearance characteristics they deemed most important. Factor scores ranged from -5 (least important) to +5 (most important). Although the analysis included factors that distinguished subgroups of women based on physical appearance characteristics they considered least important, we focused only on those factors that distinguished women based on physical appearance characteristics they considered most important.

Considering factor scores of +4 and +5 most important characteristics, the results showed that in the Central region, there were two subgroups or typologies of women: 1) one group focused on body weight/shape, skin, and facial appearance; 2) a second group focused only on
In the North region there were three typologies: 1) one group focused on body weight/shape and facial appearance; 2) a second group focused on facial appearance, body weight/shape, and skin; 3) a third group focused on facial appearance and skin. In the North East region there were four typologies: 1) one group focused on body weight/shape and facial appearance; 2) a second group focused on body weight/shape, facial appearance, and skin; 3) a third group focused on facial appearance and skin; 4) and a fourth group focused on facial appearance and hair. In the South region there were five typologies: 1) one group focused on body weight/shape, facial appearance, and skin: 2) a second group focused on skin and facial appearance; 3) a third group focused on body weight/shape, facial appearance and general appearance; 4) a fourth group focused on facial appearance and hair; 5) and a fifth group focused on skin, body weight/shape and hair. See Table 1.

Discussion

In this study, we examined the similarities and differences in the characteristics of physical appearance identity among young adult women in the Central, North, Northeast and South regions of Thailand using Q-methodology—a methodology that incorporates the strengths of both qualitative and quantitative techniques. We found interesting similarities and differences in the physical appearance characteristics deemed most important by women across regions of Thailand and within regions of Thailand. The differences noted across regions may be due in part to distinct regional phenotypic characteristics (e.g. wider face and flatter nose bridge in the North East region and almond shaped eyes in the North region) and the diversity of skin color across the regions of Thailand, from light skin in the North region to dark skin in the South region.

In this study, young women in all four regions of Thailand identified ‘shapely’ as the most important physical appearance characteristic. This finding is very consistent with young
women in the west whose focus is primarily on body weight and shape (Annis, Cash, & Hrabosky, 2004; Brown & Dittmar, 2005; Markus, Hamill, & Sentis, 1987). Among all young Thai women, however, those from the Central region of Thailand were most concerned about body weight and shape. This finding is consistent with previous studies that showed that young women in Bangkok (in the Central region of Thailand) are particularly concerned about body weight and shape (Jennings, Forbes, McDermott, Hulse, & Juniper, 2006; Rush, 2007) and that men in Bangkok rated as most attractive women who were at the lower end of the normal range BMI (Swami & Tovée, 2007). Because Bangkok is in the Central region of Thailand which is the most metropolitan area, women in the Central region are likely to be more highly exposed to billboard advertisements, the internet, fashion magazines, clothing stores, and extremely thin models that contribute to the prevailing view that to be beautiful is to be thin.

Young women in all four regions of Thailand considered ‘bright face skin’ and ‘white-pink (body) skin’ as the next most important physical appearance characteristics. Women in the North region were most concerned about having bright face skin, perhaps because they already tend to have lighter body skin which is viewed as desirable. Women in South region were most concerned with body skin color, which may be because they tend to have darker skin color. Previous work has shown that white-pink skin suggests health and youthfulness (Matts, Fink, Grammer, & Burquest, 2007). White skin was associated with beauty, high social status, self confidence, modernity, and better job opportunities for Thai women (Aizura, 2009; Buranasak, 2006; Mills, 1997). Light skin is not only considered desirable in Thailand, but also in South Africa, Mexico, East Asia (Korea, Japan, and China), India, the Philippines (Ashikari, 2005; Glenn, 2008) and among African Americans (Atabe, 1998; Bond & Cash, 1992). In Caucasian
women, however, having tanned skin is considered most attractive (Smith, Cornelissen, and Tovée, 2007).

Across all regions of Thailand, facial features (e.g. oval face, big eyes, and high nose bridge) were also considered very important to physical appearance. Women in the North East region were most concerned with facial features, which may be because they tend to have wider faces and flatter nose bridges. Our finding is consistent with a previous study that showed that young women in North East region considered having an oval face, a high and narrow nose bridge, and wide eyes to be the definition of beauty (Hesse-Swain, 2006). Several studies in the U.S. have similarly found that Caucasian young adult men and women view large round eyes as indicators of youth and attractiveness (Berry & McArthur, 1985; Cunningham, 1986; Cunningham, Roberts, Barbee, Druen, & Wu, 1995). Asian American women, including Thai women, often have cosmetic surgery to achieve the Asian standard of beauty that includes large round eyes (i.e., double fold eyelid surgery) and more prominent nose, facial features that are associated with the ideals of beauty, success and modernity that they believe will increase the likelihood of finding a desirable mate and getting a good job (Aizura, 2009; Kaw, 1993).

Despite regional similarities and differences, we also found interesting within-region differences. In the Central region, there were only two subgroups of women, whereas in the South region there were five distinct subgroups of women. Women in Central Thailand tended not to have the perceived undesirable characteristics of darker skin noted in the South region, wider face and flatter nose bridge noted in the North East region, and almond shaped eyes noted in the North region. Perhaps because Central Thailand is the most metropolitan area, women tended to focus more exclusively on body weight and shape than on other areas of the body. Interestingly, the least metropolitan area (the South region) had the most distinct subgroups of
women (5), followed by the North East region (4) and then the North region (3). This raises interesting questions about factors in urban and rural areas that might differentially contribute to the focus on physical appearance.

This was the first study to empirically examine components of physical appearance identity in young women in Thailand. The important differences we found both within and across regions may explain the variety of behaviors used by Thai women to enhance their physical appearance. The unique regional and within-region factors that contribute to women adopting different aspects of physical appearance as central sources of self-definition remain unknown, however.

Despite these strengths, there were some limitations. First, the cross-sectional nature of this study prohibits causal inferences. Second, because the research participants were obtained using convenience, purposive sampling, with only 50 women per region, the generalizability of the findings is limited. Third, we did not measure factors that contribute to physical appearance identity.

Based on the findings from this study, there are several recommendations for further research, education and practice. Further research should focus on regional factors that contribute to physical appearance becoming a dominant source of self-definition, and the developmental time points most sensitive to intervention. Because of the considerable health risk behaviors associated with physical appearance identity, nursing education should add this focus to the curriculum. Finally, it is important for nurses in diverse practice settings to educate young women about the risks associated with the health compromising behaviors aimed at altering physical appearance and carefully assess young women who may be at high risk for engaging in health compromising behaviors aimed at altering physical appearance.
References


**Figure 1.** Example completed ‘Q-sort’ configuration
Figure 2. Sample coded Q-sort
Figure 3. Regional differences in factor scores for the physical appearance characteristics considered most important
Table 1

*Physical appearance typologies of women in Thailand by region*

<table>
<thead>
<tr>
<th>Trait</th>
<th>Typology 1</th>
<th>Typology 2</th>
<th>Typology 3</th>
<th>Typology 4</th>
<th>Typology 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Bright face skin</td>
<td>4</td>
<td>3</td>
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<tr>
<td>Shapely</td>
<td>5</td>
<td>5</td>
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<tr>
<td>White-pink skin</td>
<td>4</td>
<td>4</td>
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<tr>
<td>White skin</td>
<td>-1</td>
<td>4</td>
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<tr>
<td>North</td>
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<tr>
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<td>2</td>
<td></td>
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<tr>
<td>Bright face skin</td>
<td>5</td>
<td>5</td>
<td>4</td>
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<tr>
<td>Big eyes</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td></td>
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<tr>
<td>Shapely</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<tr>
<td>Bright skin</td>
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<td>2</td>
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<td>4</td>
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<tr>
<td>Big eyes</td>
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<td>1</td>
<td>3</td>
<td>5</td>
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<td>-3</td>
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<td>1</td>
<td>-3</td>
<td>1</td>
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</table>

*Factor scores of 4 or 5 indicate high importance of the characteristic to the self-definition*