

Introduction

- Past research has investigated ideals of beauty and changes over time. Mazur (1986) investigated body measurements (chest, waist, hips) of Playboy Playmates and Miss America contest winners across time, identifying trends in body shapes. Singh (1993) reviewed these trends and reported that despite fluctuations, little variation occurs in the waistto-hip ratio (WHR) of Playboy Playmates and Miss America winners. Other research has considered changes in cultural expectations of thinness in Hong Kong and the implications of these trends for eating disorders (Leung, Lam, & Sze, 2001).
- these trends for eating disorders (Leung, Lam, & Sze, 2001).
 Pettijohn and Tesser (1999) found preferences for mature facial features in popular American actresses when social and economic conditions were threatening across time, although there was no systematic preference for actors (2003). Pettijohn and Jungeberg (2004) found facial and body feature preferences of Playboy Playmates of the Year were related to social and economic factors over time. Pettijohn and Yerkes (2004) found a trend for a thinner Miss America with a smaller BMI when times were bad, but no relationship betweens social and economic conditions and facial features.

Environmental Security Hypothesis (Pettijohn & Tesser, 1999)

Proposes that exposure to threatening environmental conditions will cause people to show a relatively greater preference for individuals with mature features, as compared to preferences under less-threatening conditions

Predictions

- The current study extends past research by considering beauty trends in a non-Western sample, Miss Hong Kong, and provides a theory to explain how social and economic conditions and time are related to preferences for certain facial and body features. This study also investigates the Westernization of Miss Hong Kong.
 - Specifically, we expected Miss Hong Kong to possess more mature facial and body feature measures during threatening social and economic times. Although we anticipated relationships consistent with the Environmental Security Hypothesis, we expected these outcomes to be attenuated due to a Westernization trend.
 - We expected Miss Hong Kong to become more Westernized in appearance over time - displaying larger eyes, a smaller chin, a thinner face, and a taller, thinner body.

Data Collection (1973-2003)

- Hong Kong Social & Economic Statistics
 - Unemployment rate, consumer price index, death rate, birth rate, marriage rate, divorce rate, suicide rate, homicide rate
 - These measures were standardized and combined to create the General Hard Times Measure (larger values indicate more threatening social and economic conditions)
- Miss Hong Kong Features
 - Age, Facial Measures, Bust, Waist, Hips, Waist-to-Hip Ratio, Height, Weight, Body Mass Index

Miss Hong Kong Facial Photographs Data Collection (1973-2003)



Winnie Chan 1978

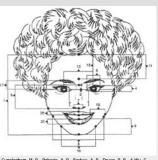


Robin Lee 1986



Anne Heung 1998

Facial Feature Measurement



edges of cheekbones at most prominent point. (3) Width of Tace is edge of cheek point poin

General Hard Times Measure and MHK Facial Feature Correlations

<u>Feature</u>	r	
Eye Height	.288*	
Eye Width	.419***	
Eye Area	.413***	
Vertical Eye Placement	.478***	
Facial Narrowness	.385**	
Nose Length	.395**	
Nose Area	165	
Chin Length	351**	
Chin Width	305**	
Chin Area	339**	
N=31 years. *=p<.10, **=p<.05, ***=p<.0	01.	

General Hard Times Measure and MHK Body Features Correlations

Feature	r	df
Age	.317**	29
Waist	291	15
Height	020	29
Weight	259*	28
Bust	.113	15
Waist-to-hip Ratio	106	15
Body Mass Index	409**	28

*=*p*<.10, **=*p*<.05

Different df reported due to unavailability of data for some years

Time and MHK Facial Feature Correlations

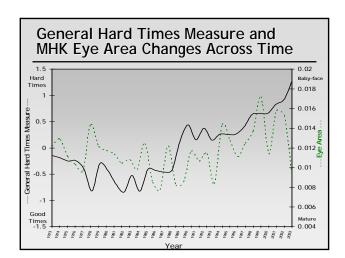
Footume	_	
Feature	<u> </u>	
Eye Height	.135	
Eye Width	.323**	
Eye Area	.258*	
Vertical Eye Placement	.398**	
Facial Narrowness	.371**	
Nose Length	.435***	
Nose Area	.113	
Chin Length	379**	
Chin Width	409***	
Chin Area	419***	
Eyebrow Height	305**	
<i>N</i> =31 years. $*=p<.10$, $**=p<.05$, $***=$ All tests were one-tailed.	<i>-p</i> <.01.	

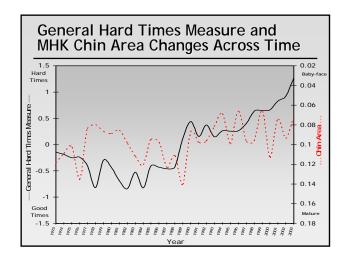
Time and MHK Body Feature Correlations

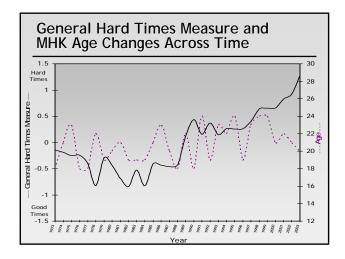
Feature	r	df
Age	.466***	30
Waist	146	16
Height	.162	30
Weight	104	29
Bust	223	16
Waist-to-hip Ratio	.050	16
Body Mass Index	312**	29

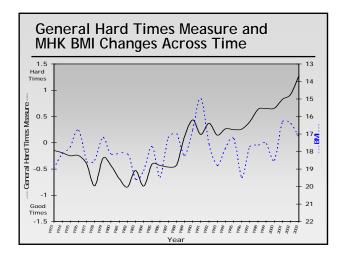
*=*p*<.10, **=*p*<.05

Different df reported due to unavailability of data for some years









Discussion

- Overall, in difficult social and economic conditions, Miss Hong Kong pageant winners were relatively older with smaller body mass indexes, smaller chins, larger eyes, narrower faces, and larger noses. The BMI, chin size, and eye size measures were actually opposite the predictions derived from the *Environmental Security Hypothesis*.
- When time is controlled for, the relationships between social and economic conditions and MHK features are diminished. This suggests that changes in time, which could be explained by a Westernization trend, are more important than social and economic conditions in determining preferences.
- Over time, MHK has adopted a more Western ideal of beauty as her body mass index and chin size have decreased and her eye size, narrowness of her face, and nose size have increased.

Conclusion

- Although correlational, these results suggest that environmental security may influence perceptions and preferences for MHK with certain body and facial features and it also shows the Westernization of beauty ideals in Hong Kong over time.
- Results of this research offer new insight into perceptions and trends of beauty, and human facial and body feature preferences across cultures and

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