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# Mare's milk in cosmetics: preliminary tests

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**VIST**

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## *Mare's milk in cosmetic – topical use*

- Key ingredients:
  - PUFA, albumin, globulins and peptides, free amino acids, a high content of carotene, vitamins, minerals and other bioactive components.
- Baths in mare's/asse's milk
  - Queen Cleopatra
  - Empress Elisabeth of Austria - Sisi
- Published positive effects by:
  - inflammatory skin diseases, neurodermatitis, eczema, psoriasis, acne, etc.

## Aim of the work

- Preservation of local breeds
  - With production
- Equine production is a highly variable
  - Races - Sports 
  - Leisure 
  - EAAT
  - Tourism
  - Meat & Milk (limited – niche in E. & NA) 





# Idea developing

- Milk production with local breeds
  - technology
- Registration of mare's milk production unit
- Selling mare's milk
  - Not so easy
- Connected to:
  - research organizations – cosmetics
  - Businesses – cosmetics, machinery
- Use mare's milk as raw material for cosmetics




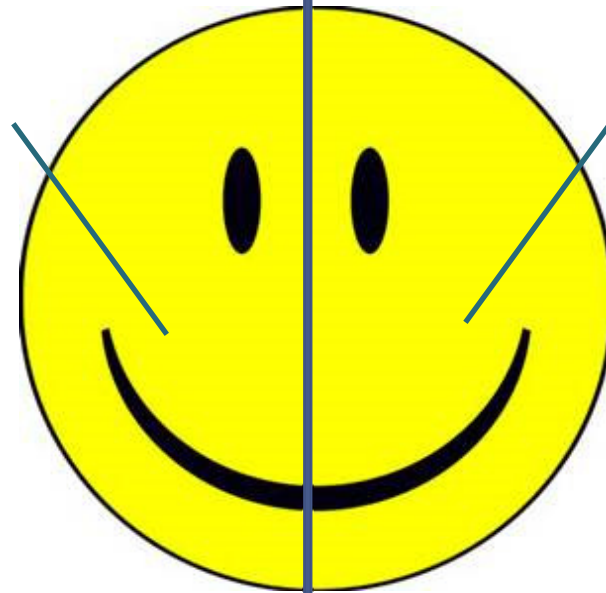
## Material

- 3 ladies
  - different ages
  - with dry skin
- Tonic
  - Water
  - Mare's milk
- Cream
  - Placebo
  - Placebo + 4% FD MM

Twice a  
day

Two  
months

- 
1. Clean Phase  
CLEANSING  
FOAM
  2. Mare's milk as  
tonic
  3. MM creme



1. Clean Phase  
CLEANSING  
FOAM
2. Water as  
tonic
3. Placebo creme

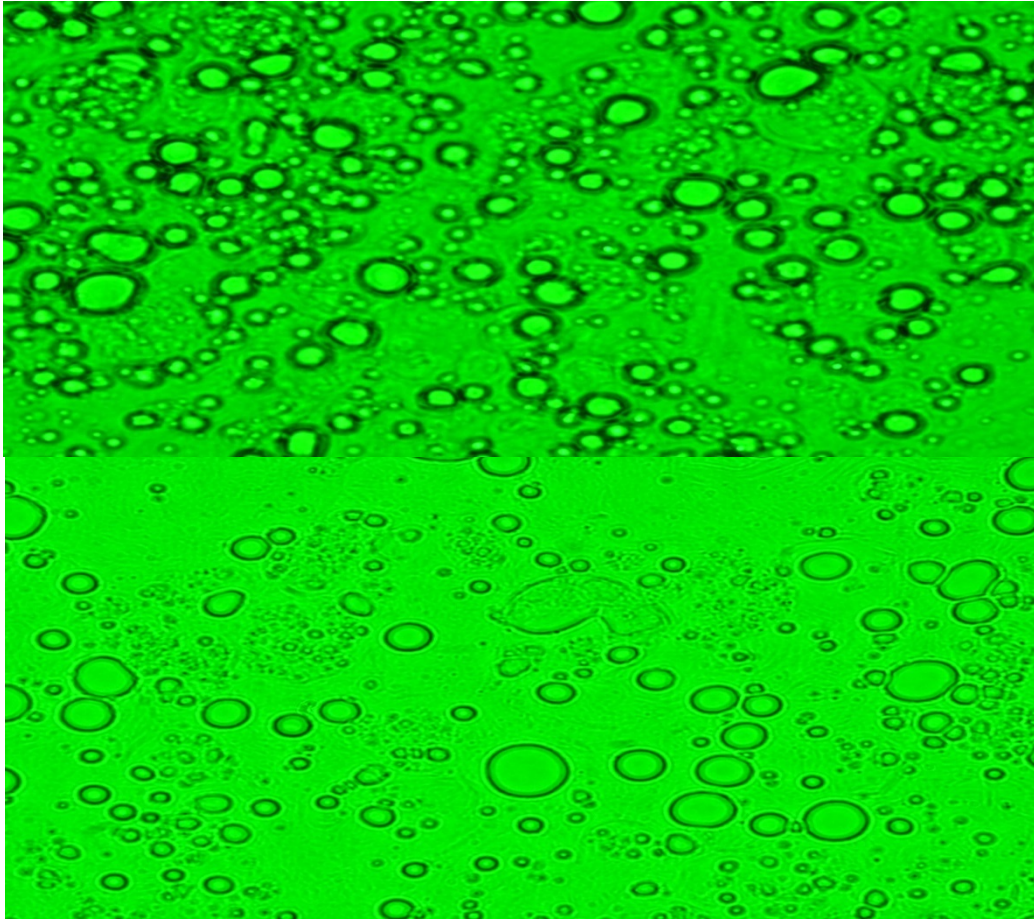


## Methods

- Apparatus
  - Multi Skin Test Center MC 750 & Visioface Quick
- Measurements
  - skin moisture,
  - skin elasticity,
  - skin pH,
  - the depth of wrinkles,
  - fine pores,
  - large pores and
  - dark spots

On  
the  
face

## Cream differences - viscosity

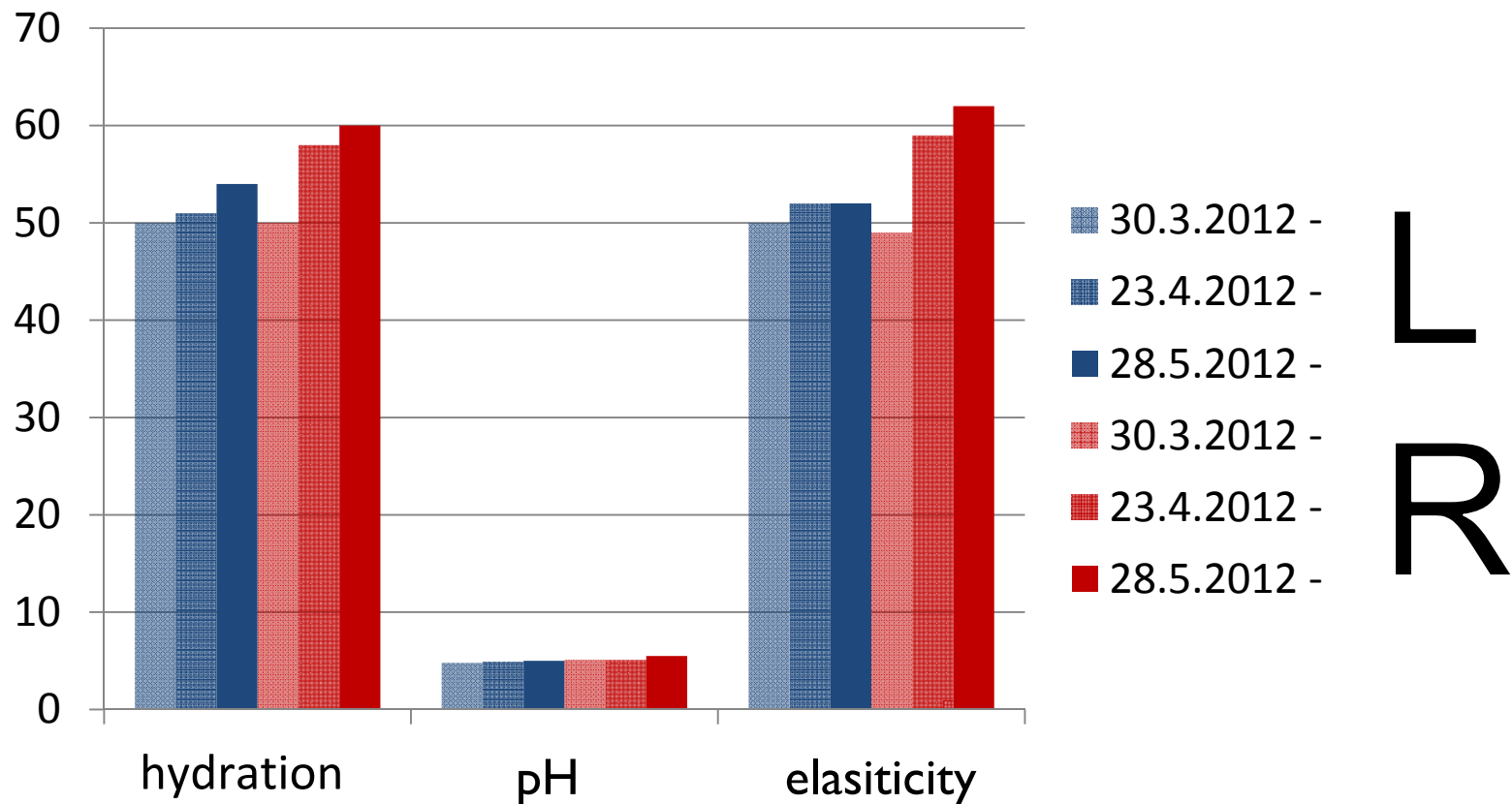


51,000  
mPas

36,000  
mPas

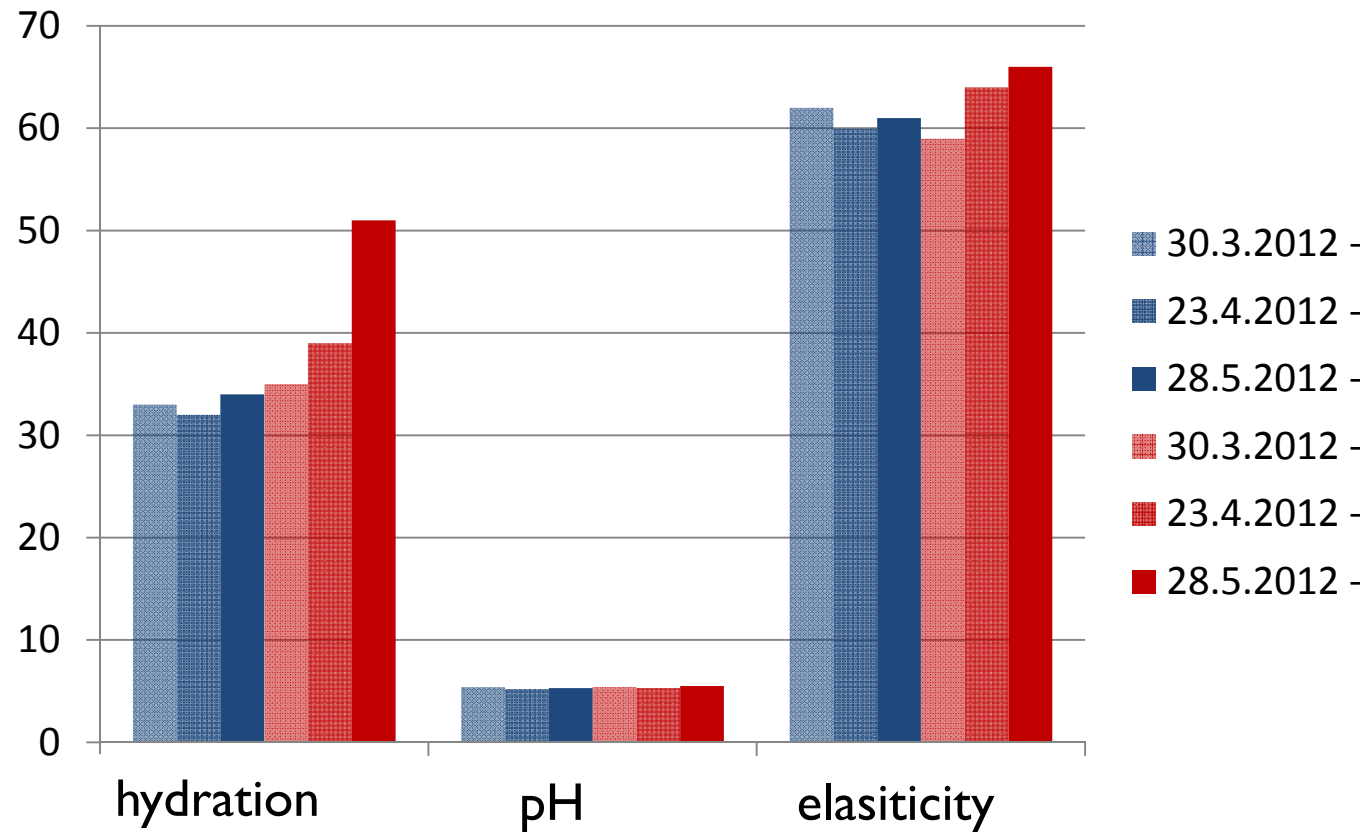


# Results – 1<sup>st</sup> model - forehead



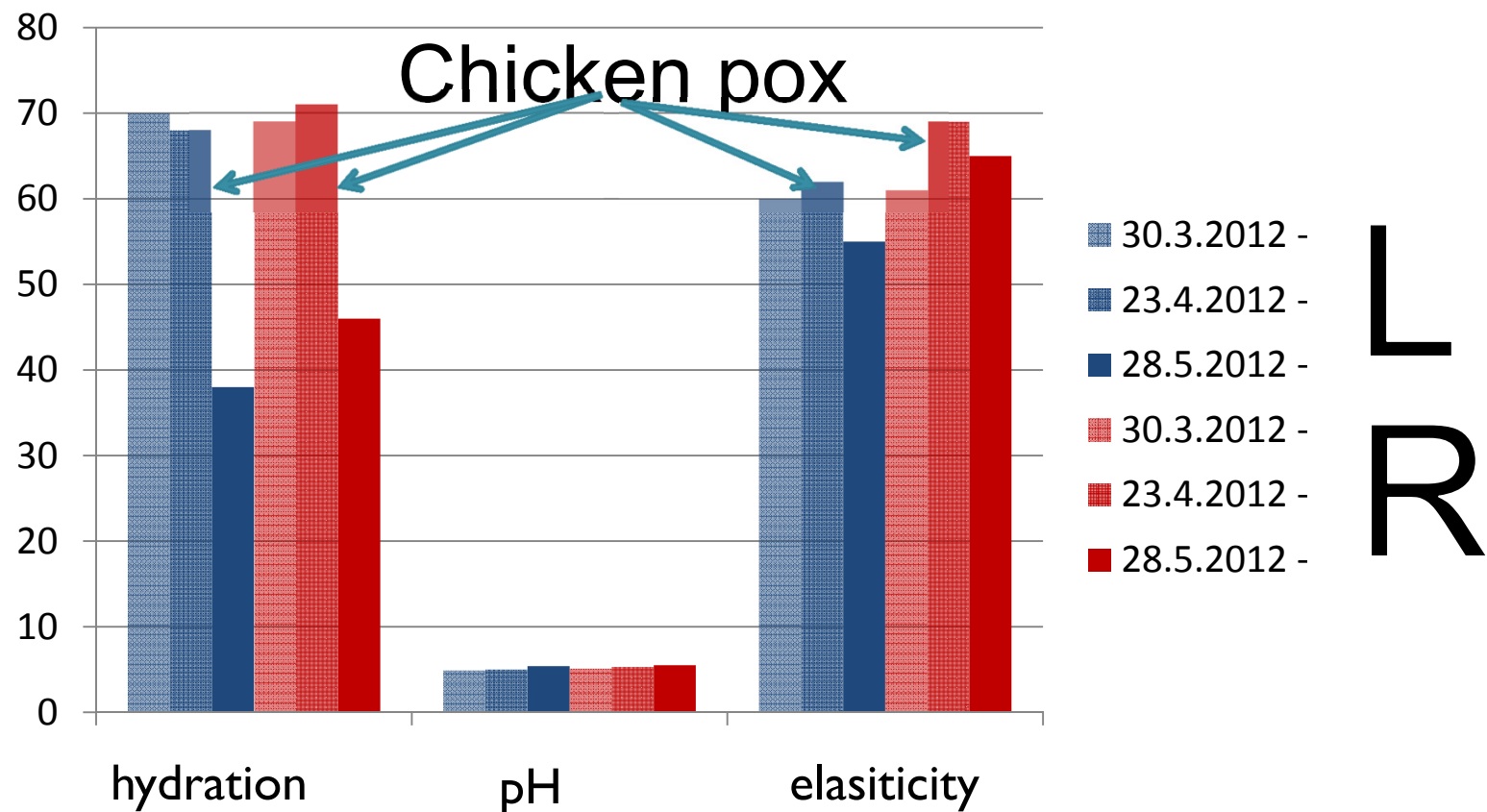


# Results – 1<sup>st</sup> model - cheek

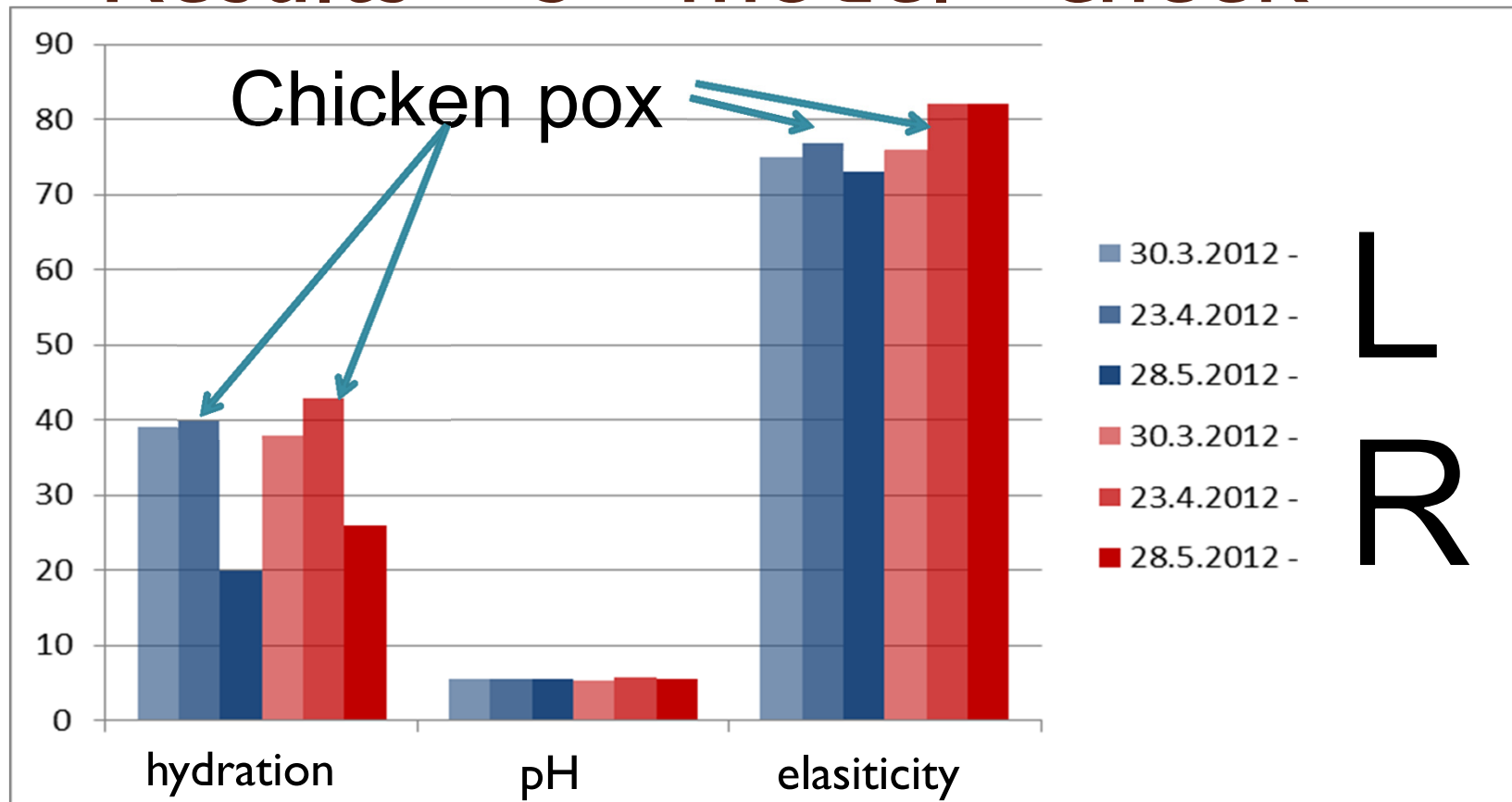


L  
R

# Results – 3<sup>rd</sup> model - forehead



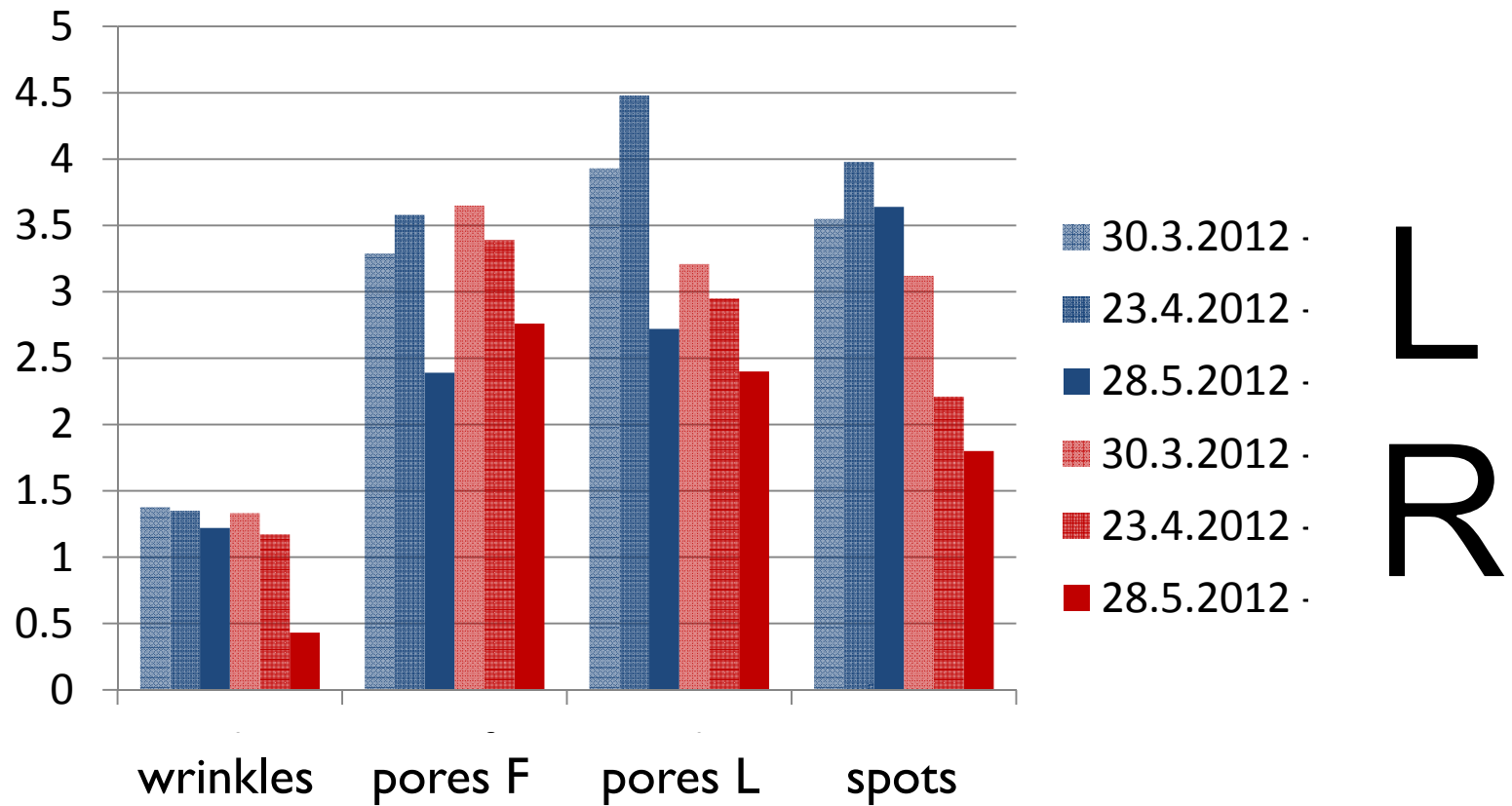
# Results – 3<sup>rd</sup> model - cheek



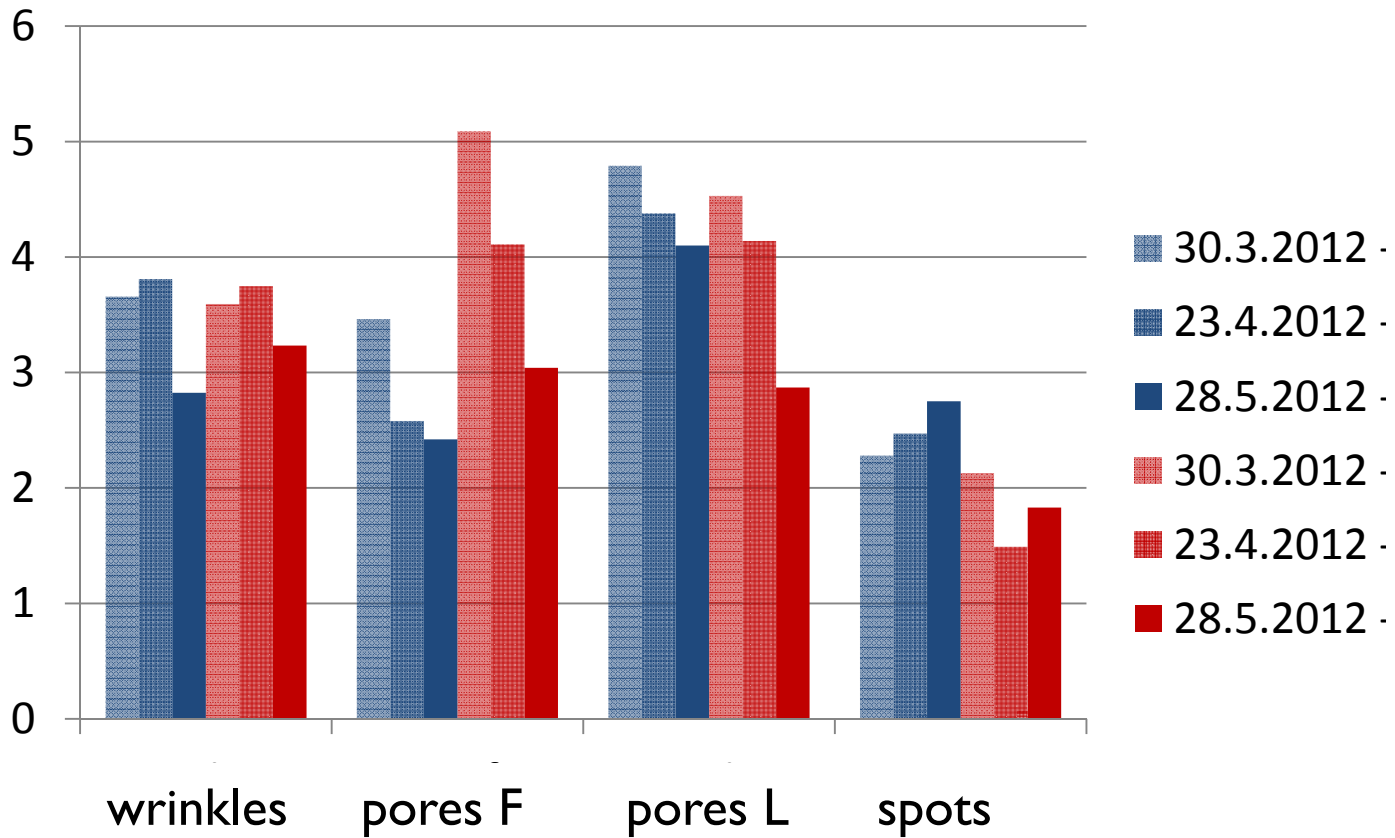
L  
R



# Results – 1<sup>st</sup> model - forehead

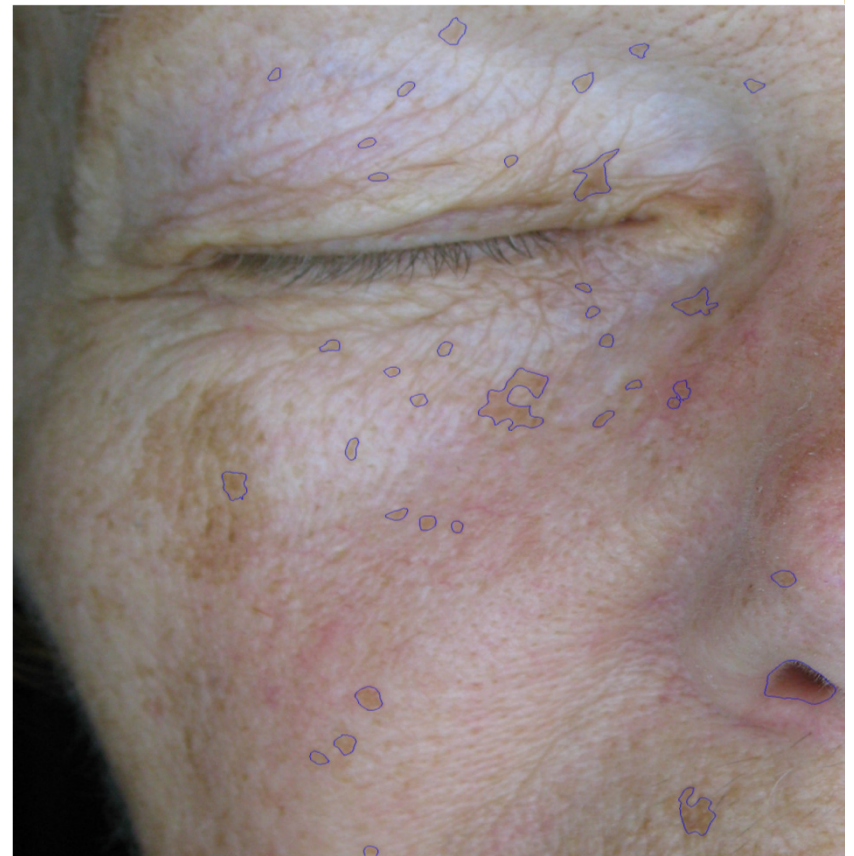
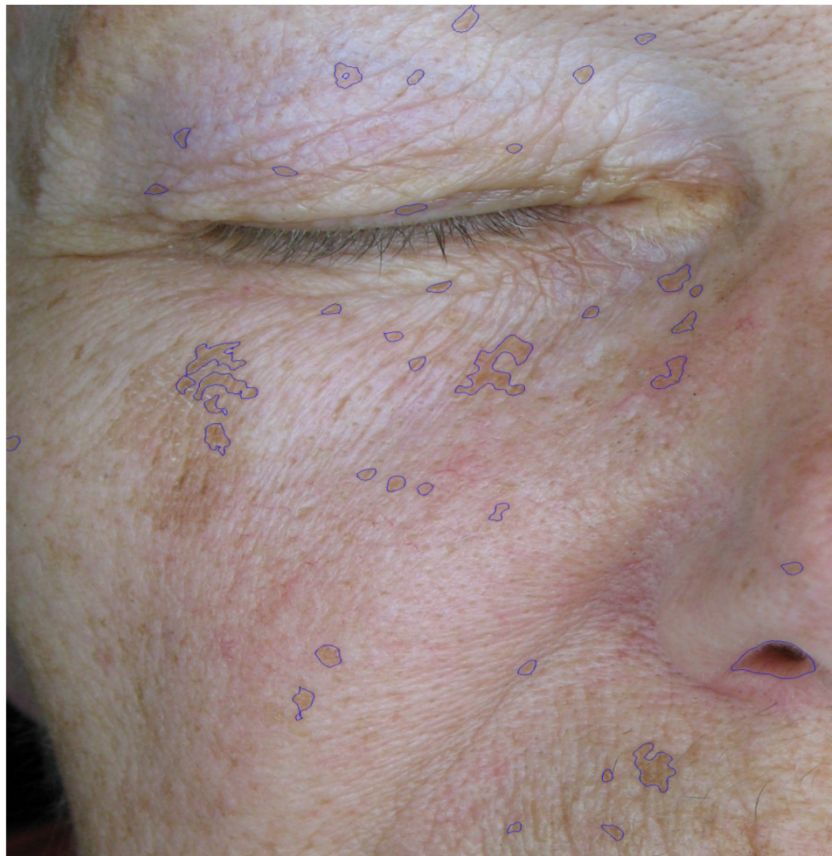


# Results – 1<sup>st</sup> model - cheek



L  
R

# Before-after comparison





## Conclusions

- Results support the positive effect of mare's milk for cosmetic purposes
- Use of cosmetics care with mare's milk in comparison to placebo cosmetics
  - increasing humidity and elasticity
  - reducing wrinkles and pores
  - reducing dark spots (visibility)
- Use of mare's milk in cosmetics could improve breeding economics of horse breeding
- Local breeds could be us as brand mark





## Future work

- Certificate more products
- Clinical studies on cosmetics & dermatology?
  - Second diploma defence will be on 1<sup>st</sup> of September
- Spread know how abroad
- Croatia as an example
  - donkey breeding organisation
  - Use our certificated product
  - Try to established market (with no investment)
  - Use our technology and knowhow
  - Own production

Thank You for your attention!

