



EGAS MONIZ SCHOOL  
of HEALTH & SCIENCE

## Biometric Advise in Skincare

BAS

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Dermocosmetic counselling in community pharmacy requires:

- Scientific knowledge
- Interpretation of skin-related data
- Effective communication with the client

**Educational challenge:**

How to realistically train these competencies in undergraduate students?

- To simulate real-life dermocosmetic counselling in community pharmacy
- To integrate biometric data into the decision-making process
- To promote both technical and communication skills in students

What is BAS? → **BIOMETRIC ADVISE IN SKINCARE**

Active learning methodology based on:

**Role-play  
(pharmacist-client)**

**Analysis of biometric  
skin data**

**Resolution of  
realistic case studies**

## LEARNING RESOURCES

- ❖ Practical class → Biometric analysis
- ❖ Pre-recorded theoretical class: steps of community pharmacy consultation
- ❖ Pre-recorded role-play video + script (best-practice model)



## METHODOLOGY

1

### SCRIPT

2

### ROLE-PLAY

3

### CLASS DISCUSSION

Provided 48h prior presentation

Pharmacist  
Client

Highlight strengths and areas  
for improvement

- Select appropriate biometric probes
- Interpret results to guide product choice
- Justification needs to be provided based on:
  - Biometric data
  - Dosage form and composition
- Development of communication skills and health literacy

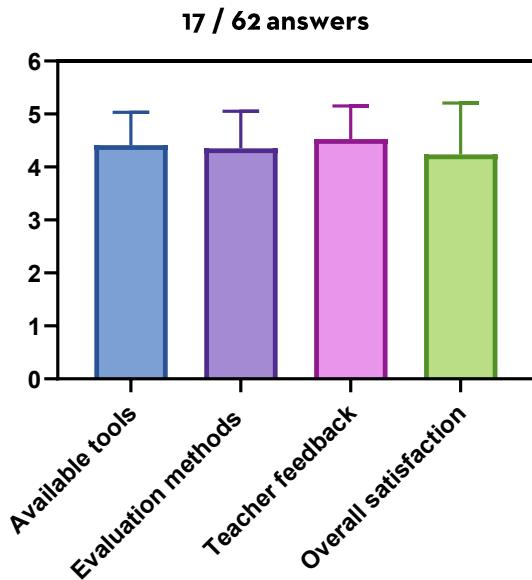


- Role-play and experiential learning
- Teamwork and peer discussion
- Student-centred and decision-oriented learning approach
- Integration of theory and practice

Arlianty, W. N. (2018). Project-based learning in chemical cosmetics course. *AIP Conference Proceedings*, 2026(1), 20073. <https://doi.org/10.1063/1.5065033>

de Beer, J., & Van Wyk, B.-E. (2022). Learning about Science & Pseudoscience as Critical Consumers: A Classroom Activity on the Rationality of Plant, Medicinal & Cosmetic Products Use. *The American Biology Teacher*, 84(8), 488-495. <https://doi.org/10.1525/abt.2022.84.8.488>

Liu, J., Li, R., Yang, W., Lei, H., Wang, L., Zhang, Y., ... Yang, L. (2023). Project-Based Teaching Model in Pharmaceutical Integrated Experiment Course for Undergraduates Implementing the Case Study: Design, Synthesis, and Biological Evaluation of Potential SIRT5 Inhibitors. *Journal of Chemical Education*, 100(11), 4414-4422. <https://doi.org/10.1021/acs.jchemed.3c00351>



## OVERALL TRENDS:

- High engagement
- Improved understanding of dermocosmetic counselling
- Increased confidence in clinical decision-making

- BAS is an innovative and realistic teaching strategy
- Enhances professional preparedness of pharmacy students
- Easily adaptable to other clinical or educational contexts



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BAS connects biometric data with real-world  
dermocosmetic counselling

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