# Good beekeeping practice for medical grade bee products

## Subject
International criteria and advice to the beekeepers for the production for medical grade bee products

## Date of creation
01 October 2010

## Place of creation
Bled – Slovenia (Apimedica & Apiquality forum 2010)

## Scientific Commission(s) involved
Technology & Quality + Apitherapy + Economy

## Continental Commission(s) involved
Five

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## Action(s) done
Recommendation during the workshop in Bled (see ppt GBPA_Api)

## Action(s) to do
- a set of quality criteria for medical grade bee products
- a best practice beekeepers manual for achieving high quality
- testing procedures to verify the quality and efficacy
- a “User Manual” for doctors and therapists to understand the application of high quality bee products
- a communication scheme about high quality bee products

## Target
Beekeepers - Doctors - Therapists - Laboratories

## Observation

In annexe below, a document to start thought:
2\textsuperscript{nd} Apimondia international forum on Apiquality

Beekeeping technology for special quality of honeybee products

Etienne Bruneau
CARI asbl
Honey, is it always honey?
Honey, yes but what kind of honey?
The other hive products, their status?
Quality of the hive products, what does it mean?
Is it always honey?

World production

Is it always honey?

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Is it always honey?

- Fall in global production
  - Impact of this on prices
  - Increase in incidences of fraud
- Different types of fraud
  - Adulteration of honey
    - With different kind of syrup
    - With colorants...
  - Recycling damaged honey
- Development of imitation ‘honey’
Is it always honey?

- Putting beekeepers in competition with low-quality ‘? honey? ’
- Lack of marketing for honey producers
  - Price volatility – unpredictable nature (uncertain market, uncontrolled storage)
  - Loss (lack) of profitability
  - Investment in quality decrease
Is it always honey?

- What can we do?
- Increase the controls
  - Find the correct indicators
    - Not only the legal criteria
  - Improve the analytical techniques
    - Not too expensive
    - Renewing of the techniques (frequent) ...
Honey, yes but what kind of honey?

- Honey has a definition (Codex, EU legislation)
- But criteria for specific honey are not fixed at international level
  - Fraud on the labelling

⇒ Need to find common international criteria
⇒ Need to put in place a data bank with the validated data on the different types of honey

⇒ On this base possibilities of specific promotion
Other products (pollen, royal jelly, propolis, wax) are an important source of economic diversification that must be developed. But they have no official definition. Except for the wax, there is no specific classification on the borders.
The other hive products

What can we do?

⇒ Avoid products, which do not respond to consumer demands,

⇒ Put in place official definitions at an international level

⇒ Need of data on their composition, their conservation...
Quality, what does it mean?

- We want products
  - ‘Clean’
  - ‘Fresh’
  - ‘Natural’
  - ‘Healthy’
Quality, what does it mean?

- ‘Clean’
  - Residue can come from various sources:
    - Illegal treatments used on colonies (EU)
    - Legal treatments (outside the EU)
    - ‘Domestic’ contaminations (material, techniques...)
    - Environmental pollution
Hive products for hygiene

- The type of risk for honey and royal jelly is very different from other food.

Alert notification 2008 - EFSA

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<th>Hazard category</th>
<th>All food</th>
<th>Honey and Royal jelly</th>
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Hive products for hygiene

2008 – ALERT NOTIFICATIONS BY IDENTIFIED RISK

- (Potentially) pathogenic micro-organisms: 24%
- Allergens: 10%
- Bad or insufficient controls: 9%
- Biocontaminants: 9%
- Biotoxins: 9%
- Composition: 1%
- Food additives: 6%
- Foreign bodies: 4%
- GMO / novel food: 4%
- Heavy metals: 4%
- Industrial contaminants: 3%
- Microbiological contamination: 3%
- Migration: 2%
- Mycotoxins: 2%
- Not determined / other: 1%
- Packaging defective / incorrect: 1%
- Parasitic infestation: 1%
- Pesticide residues: 2%
- RAPID ALERT HONEY: 14%
Quality, what does it mean?

- ‘Clean’

What can we do?

⇒ Fix clear and uniform level of MRL for substances used for the treatment of the hives

⇒ Development and application of ‘Good beekeeping practice guide’
Quality, what does it mean?

- ‘Fresh’
  - We can find on the market a lot of degradations due to the age or the bad conservation conditions
  - We need complement of data on the evolution of royal jelly, pollen, propolis
  - We need to fixed quality criteria more restrictive
Quality, what does it mean?

- ‘Natural’
  - By definition, the honey products must be ‘natural’
  - But is an opportunity for beekeepers to develop organic beekeeping
  ⇒ Last congress in Bulgaria was a success
Quality, what does it mean?

- ‘Healthy’
  - For Apitherapy, criteria of quality must be fixed
  - The products must be much more characterized
  - It’s the same for their condition of conservation...
  - We have to put in place specific beekeeping guide based on this quality
A lot of work
but
it’s for the future of the bee and of the beekeepers

Thank you