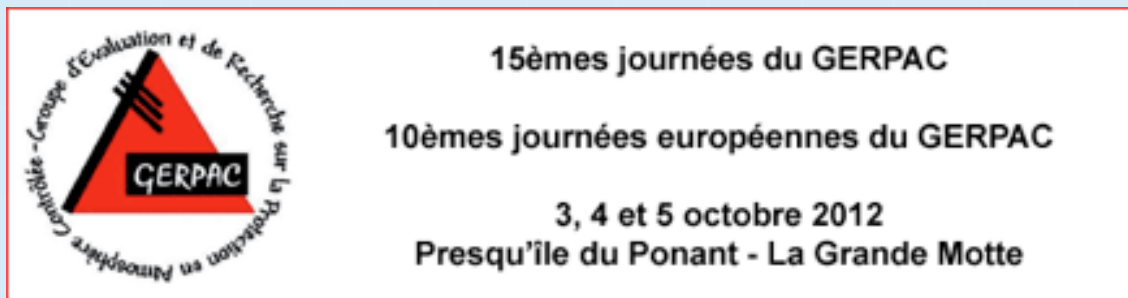


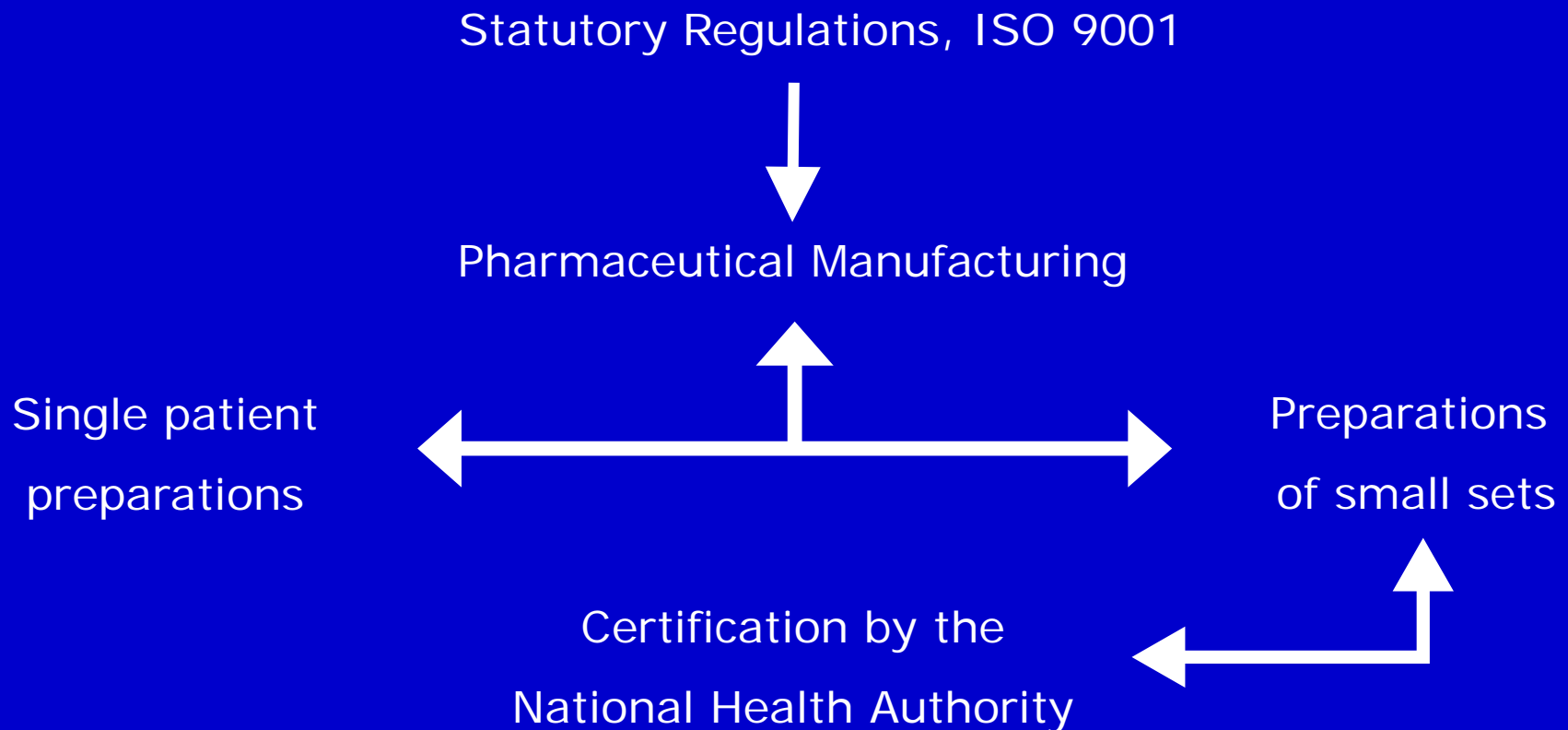
# Training and Qualification of Manufacturing Operators in French and Swiss Hospitals: A Survey

P. Pavie , G. Podilsky, J-C. Devaud, A.Pannatier  
Service de Pharmacie, CHUV, CH-1011 Lausanne



Objective: To survey existing training programs and suggest modifications aimed at improving the qualification of operators in pharmaceutical manufacturing.

Context:



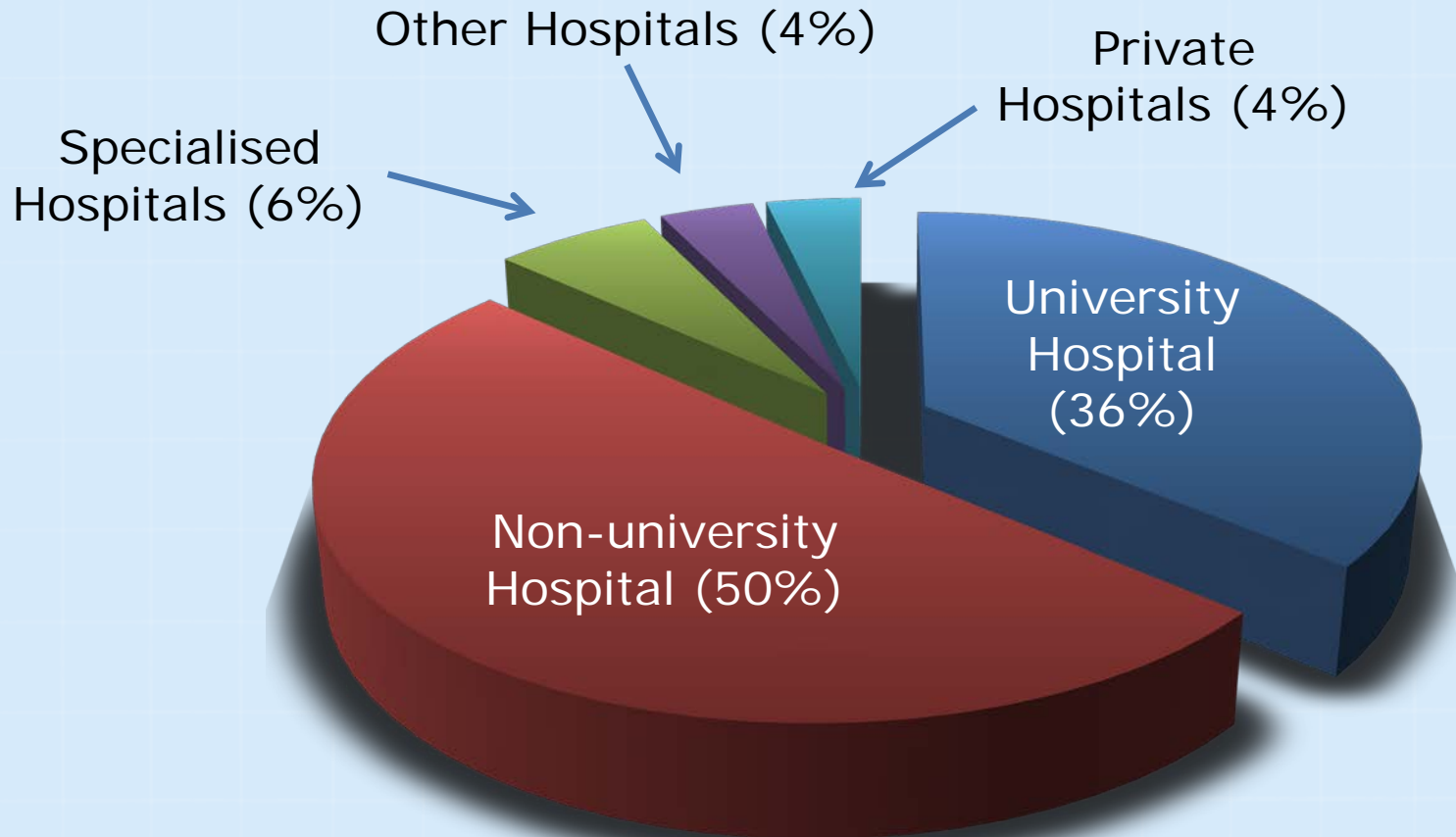
## Methods

- An anonymous electronic survey of manufacturing practices in French and Swiss hospitals
- Based on the software «Sphynx»
- Featuring 21 queries grouped into four sections:
  - ✓ Type of institution
  - ✓ Type of initial and continuous training (both theoretical and practical)
  - ✓ Fields of qualification
  - ✓ Follow-up of qualification
- Survey sent directly to the Pharmacy Dept Head
- Survey open for one month

## A few Results (1/4)

### 1) Type of institution

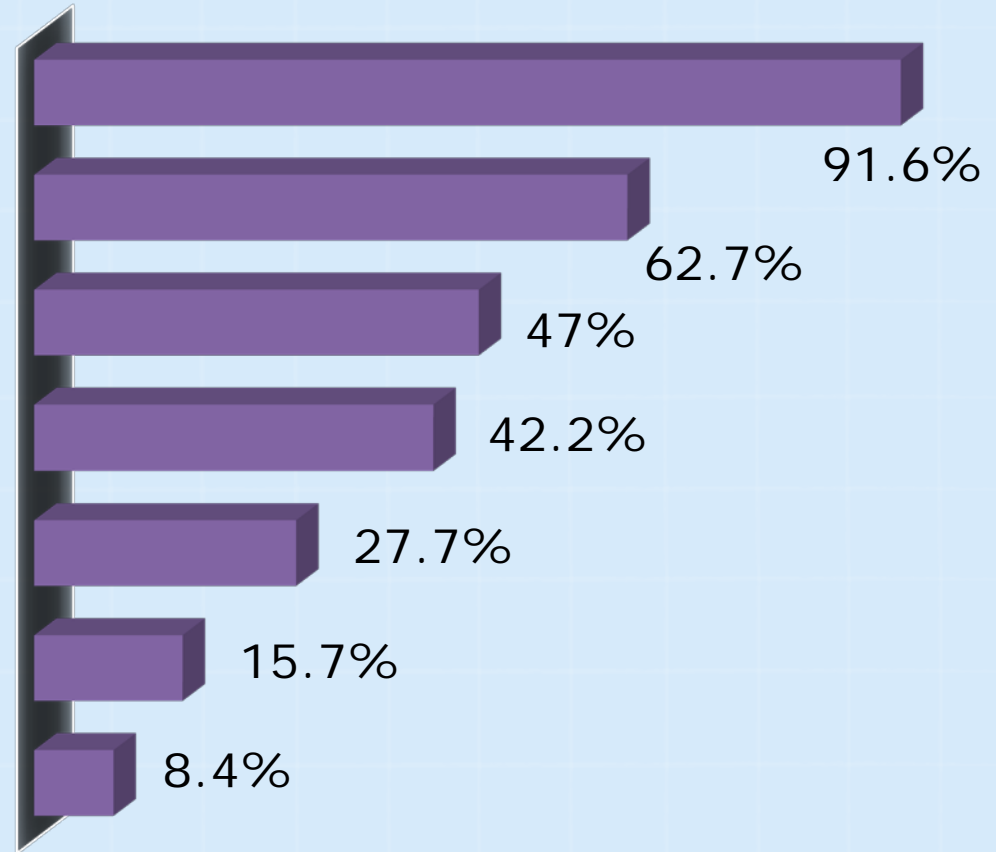
- 185 (34.5%) hospitals answered the questionnaire.
- 83 of them had facilities for pharmaceutical manufacturing.



# A few Results (2/4)

## 2) Types of production

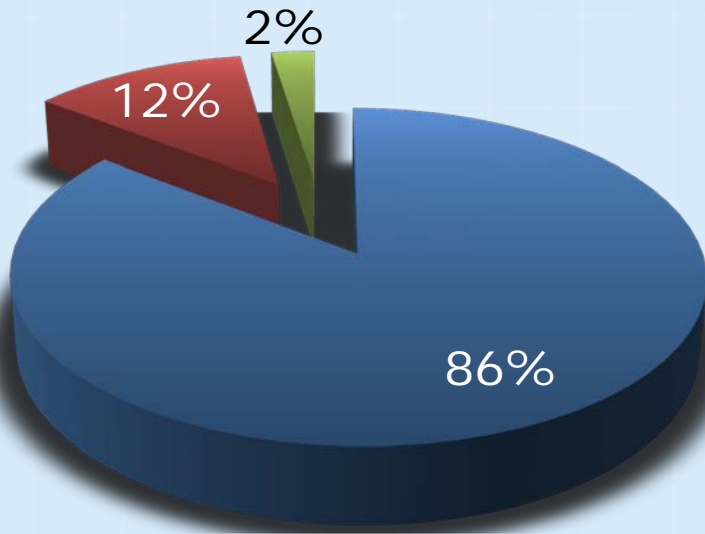
- Cytotoxic compounding
- Non-aseptic compounding
- Non-cytotoxic and non-TPN compounding
- Non-cytotoxic and non-TPN series
- TPN compounding
- Cytotoxic series
- TPN series



## A few Results (3/4)

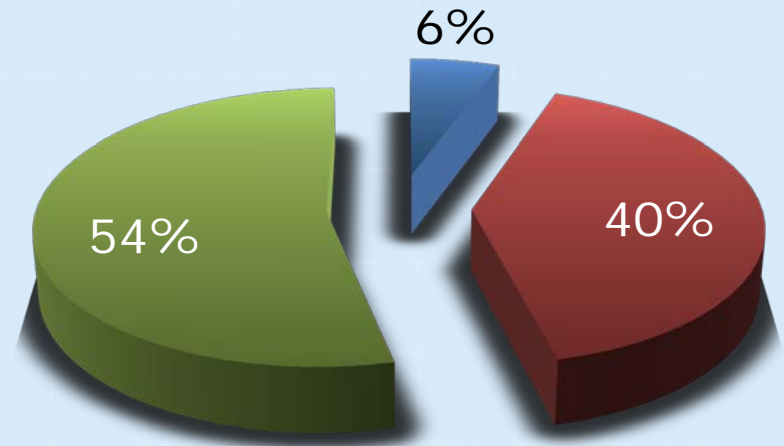
### 3) The current state of initial *versus* continuous training

Initial training



- No training
- Training according to the operator
- Systematically with training

Continuous training



- No Training
- Training with outside organization
- Internal training

## A few Results (4/4)

### 4) Qualification, evaluation and follow-up

- Information on quality documents:
  - ➔ Operators in 21% of hospitals have only partial knowledge of quality documents.
  
- Assessment of the understanding of documents:
  - ➔ Operators in 34% of hospitals were asked to assess their understanding of such documents.
  - ➔ 20% of these hospitals asked for a written assessment, 80% for an oral one.

## Discussion and Conclusion

- This survey brought to light remarkable disparities between hospitals in training and qualification procedures.
  - ✓ This can be explained by incomplete legislations regarding the training of operators.
  - ✓ In other words, many hospitals train their pharmaceutical staff according to in-house rules.