



THE DELPHI PROCESS FOR SELECTING INDICATORS

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INCEPTION WORKSHOP ON NATIONAL PLANNING FOR RARE DISEASES

10-11 September 2012, Rome, Italy



THE DELPHI PROCESS

- A qualitative research technique for consensus building
- Communication is organised in a group of experts in order to achieve their opinion in a systematic way and to group subjective judgments
- Every expert can express his/her own opinion anonymously



THE PROCEDURE

Delphi proceeds in a series of rounds

- **Round 1:** Experts are invited to provide opinions on a specific matter, based on their knowledge and experience. These opinions are grouped together under a limited number of headings and statements drafted for circulation to all participants on a questionnaire;
- **Round 2:** Participants rank their agreement with each statement in the questionnaire. The rankings are summarised and included in a repeat version of the questionnaire;
- Round 3: Participants rerank their agreement with each statement in the questionnaire, with the opportunity to change their score in view of the group's response. The rerankings are summarised and assessed for degree of consensus: if an acceptable degree of consensus is obtained the process may cease, with final results fed back to participants; if not, the third round is repeated.

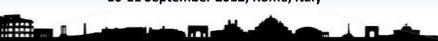




METHODOLOGICAL ISSUES

- **EXPERTS SELECTION:** the potential **bias** in the selection of participants can be overcome by using a different mixture of participants.
- ACCURACY OF THE ANSWER: because of the danger of deriving collective ignorance rather than wisdom (consensus does not mean finding the "correct" answer), the literature recommends that the results should, when possible, be matched to observable events (pilot study in EUROPLAN II)





RESULTS FEEDBACK

- Agreement with statements is usually summarised by using the median and consensus assessed by using interquartile ranges for continuous numerical scales.
- Feeding back the group's response enables participants to consider their initial ranking in relation to their colleagues' assessments, but it is not compulsory to conform to the group view.
- Outliers (e.g.those in the lower and upper quartiles) must comment/provide written justification for their responses





EUROPLAN INDICATORS SELECTION

- Usefulness and feasibility of data collection are the two main criteria that EUROPLAN II identified for selecting a limited number of indicators among those produced by EUROPLAN I
- The participants to this workshop are the group of experts involved in selecting the indicators according to the Delphi process





EUROPLAN INDICATORS FOR RARE DISEASES NATIONAL PLANNING





REFERENCES

- Jones J, Hunter D. Consensus methods for medical and health services research. BMJ 1995; 311: 376-380.
- Linstone HA. The Delphi technique. In: Fowles RB, ed. Handbook of futures research.
 Westport, CT: Greenwood, 1978.
- Moscovice I, Armstrong P, Shortell S. Health services research for decisionmakers: the use of the Delphi technique to determine health priorities. Y Health Polit Policy Law 1988;2:388-410.
- Oranga HM, Nordberg E. The Delphi panel method for generating health information. Health Policy and Planning. 1993;8:405-12.
- Pill J. The Delphi method: substance, context, a critique and an annotated bibliography. Socio-Economic Planning Science 197 1;5:57-71.
- Rowe and Wright. Expert Opinions in Forecasting. Role of the Delphi Technique. In: Armstrong (Ed.): Principles of Forecasting: A Handbook of Researchers and Practitioners, 2001. Boston: Kluwer Academic Publishers.
- Skulomosky G, Hartman FT, Krahn J. The Delphi method for graduate research. Journal of Information Technology Education 2007; 6:1-21.
- Wiener B, Chacko S et al. Delphi survey of research priorities. J Nurs Manag 2009; 17:532-8.

