

1ST COURSE AND WORKSHOP ON NON-HEART-BEATING DONORS (NHBD)

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INTRODUCTION

The disparity between organs procured from donors and waiting lists has made searching for alternatives necessary, including so-called marginal donors. Many studies have shown that non-heart-beating donors [NHBD] are a good way of enlarging donors' pools—probably the best. Results reported from some Central-European and North-American countries with controlled non-heart-beating donors, and results published largely from Spain with uncontrolled donors guarantee the success of this kind of transplant.

Non-heart-beating donors programs are difficult to develop. They need specific and wide logistics. This procedure is a race against time and raises several ethical and legal issues. Family interviews are also quite different from those in the brain death donation process. Results are quite good, and with experienced teams are even better than those obtained from brain death donors.

OBJECTIVES

All the participants in this course must be familiarized with most aspects of the NHBD procedure. They have to be able to understand any step of the procedure and reproduce technical aspects by themselves. Specific situations concerning legal or ethical aspects in their respective countries must be debated. They must accept that the approach to family interviews is different and understand the main aspects to be considered

Specific Objectives

1. Review of updated medical literature concerning non-heart-beating donation programs. Maastricht classification of non-heart-beating donors (NHBD).
2. Review and debate of ethical and legal issues concerning NHBD.
3. Presentation of uncontrolled (type I and II) NHBD programs.
4. Presentation of a specific program to obtain lungs from NHBD.
5. Characteristics of the family interview to obtain consent for donation.
6. Presentation of new technologies in the management of NHBD in the operating room with bithermia (abdominal normothermia and thoracic hypothermia).
7. Preservation of organs with pulsatile hypothermic flow bomb.



PROGRAM

6 June, 2006

- 9⁰⁰ Presentation of the course.
- 9³⁰ Classification of NHBD. State of the art in non-heart-beating donation. Presentation of published results from different groups and countries of non-heart-beating-donation programs.
- 10⁰⁰ Ethical and legal aspects of NHBD. Solution of problems according to the Spanish transplant law.
- 10³⁰ Workshop and discussion about legal and ethical issues.

11³⁰ Coffee break

- 12⁰⁰ Out-hospital procedure: Uncontrolled NHBD procedure of Community of Madrid.
- 13⁰⁰ In-Hospital procedure. First step: Emergency room procedure and transfer to operating room.

14⁰⁰ Lunch time.

- 16³⁰ In-Hospital procedure. Second step: Cannulation and preservation maneuvers established through femoro-femoral bypass with extracorporeal circulation and membrane oxygenation. Specific lung preservation.
- 17³⁰ Workshop on establishment of preservation maneuvers

7 June, 2006

- 9⁰⁰ In-hospital procedure. Third step: The family interview in NHBD. Final approach to the judge and final validation of potential donor.
- 10⁰⁰ Workshop on family interview in NHBD.
- 11⁰⁰ In-hospital procedure. Fourth step: thoraco-abdominal organ procurement.

11³⁰ Coffee break.

- 12⁰⁰ In-hospital procedure. Fifth step: Preservation of organs through cold ischemia period. Cold storage vs pulsatile flow and hypothermia machine.
- 12³⁰ Global results of NHBD program.
- 13⁰⁰ Submission of attendance certificates.