

Title:

The effect of different factors on the increase transplantation of organ donation from brain dead donors in Mashhad University of Medical Sciences between 2015 and 2023

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# Introduction

The main factor limiting organ donation is the availability of suitable donors and organs. Currently, most transplants follow multiple organ retrieval from brain-dead organ donors. Recently, transplant medicine and techniques of transplanting organs from a brain-dead donor to a living recipient are progressing all over the world. The purpose of this study is to investigate the factors affecting the increase in organ donation cases from brain-dead patients in Mashhad University of Medical Sciences in the years 2015 and 2023

# Method of study

Assessment of different factors including:

- ✓ Increasing the identification of brain death cases
- ✓ Increasing the voluntary donation of brain-dead organs
- ✓ Proper care of brain-dead patients until the time of organ donation
- ✓ Improving the transfer of brain-dead patients from the hospital of origin to the transplant hospital
- ✓ Promoting the culture of organ donation at the community level
- ✓ To take care of brain-dead patients during transfer
- ✓ use of an ambulance with advanced mobile ICU equipment
- ✓ Training courses for target groups including hospital managers, doctors, assistants nurses, and staff

# Result

Organ donation from brain death patients at Mashhad University of Medical Sciences increased significantly from 12 PMP in 2015 to 17.4 PMP in 2023.

# Conclusion

Results show that public education the promotion of organ donation culture and the training of the transplant specialist team can help in increasing the number of organ donation cases. Emphasizing these topics can help in increasing the cases of organ donation from brain death and improving the care and maintenance of brain death patients.