Where offered German pancreata get lost: process analysis of organ utilization

Drewitz, K.P.; Loss, M.; Kovac, K.; Breidenbach, T.; Loss, J.

Background: The majority of pancreata, offered in allocation, are discarded. This pancreas underutilization is not well understood, so a thorough analysis of the allocation process seems necessary.

Methods: Allocation protocols of all Eurotransplant (ET)-registered German whole pancreas donors offered to allocation between 2005-2009 (n=1769) were analysed in detail including turn-down reasons, number of offers required to place (or discard) a pancreas, and time spans of allocation process.

Results: 656/1769 offered pancreata were transplanted (37.1%). 815 were repeatedly rejected and finally withdrawn from the allocation process, after being offered to a median of 5 centres (8 patients; vs. 3 centres/3 patients for transplanted organs). A further 239 pancreata were discarded following surgical inspection of the organ at the time of intended recovery. 128 pancreata were explanted but not used due to recipient-related reasons (n=63), or because the organs were damaged or had anatomic abnormalities (n=65). For the discarded organs, the mean time from registering the organ at ET and the decision to withdraw the organ was 6.8±6.7h. The reasons for rejecting an offer often differed between centres; a mean of 1.6±1.1 different turndown causes was given for each pancreas (1.4±1.1 for those finally transplanted, 1.8±0.94 for those finally withdrawn). The reasons most frequently named were ‘unfavourable lab results’ (n=562), ‘macroscopic damage’ (n=239), ‘long ICU stay’ (n=225), and ‘resuscitation’ (n=181). Among the 293 organs with favourable P-PASS (< 15) and donor age (<30 years), 39% were discarded.

Discussion: The results allow a better understanding of where the organs get ‘lost’. Further studies are currently underway to analyse in detail the reasons for rejecting the offered organs, especially those with a favourable P-PASS.

1Medical Sociology, Dept. of Epidemiology and Preventive Medicine, University of Regensburg - Faculty of Medicine, 93053 Regensburg, Germany
2University Hospital of Regensburg, Dept. of Surgery, 93053 Regensburg, Germany
3Eurotransplant Int. Foundation, Medical Affairs, Leiden 2301 CH, The Netherlands
4Deutsche Stiftung Organtransplantation Region Bayern, 81377 Munich, Germany

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