**Figure 1:** Flowchart of the process between donor recognition by the intensive physician to referral to the Organ Donor Coordinator (and eventually Eurotransplant). Donors from step 4 (in red) and onwards are included in the current study.

 **Table 1**, General and organ specific contra-indications, source: Model protocol deceased organ donation, page 17-19 [modelprotocol-versie-9-januari-2025.pdf](https://www.transplantatiestichting.nl/files/Protocollen%20en%20richtlijnen/modelprotocol-versie-9-januari-2025.pdf) [In Dutch]

|  |  |
| --- | --- |
| General contra-indications | Relative contra-indications |
| * Unknown identity of the patient
* <24 hours adequately treated sepsis
* Active tuberculosis
* Active viral infection with rabies, herpes zoster or rubella
* Anencephalia
 | * HIV
* Chronic Q-fever
* Malignancies
* Unknown cause of death
* Melanoma
 |
| Organ specific contra-indications |  |
|  | **Contra-indication** | **Age criterium DBD** | **Age criterium DCD** |
| Kidneys | * Primary kidney disease
 | No limit | ± 75 years |
| Liver | * Proven liver cirrhosis
* History of hemophilia B
 | No limit | **>**1 month old |
| Lungs | * Chronic obstructive lung disease (for which medication is used)
* Other lung pathology
* Proven aspiration
* Melanoma
 | No limit | No limit  |
| Heart | * Angina pectoris, myocardial infarct, history of coronary bypass surgery
* Severe valve disease
* Malignant rhythm disorders
* Cardiomyopathy
* Insulin dependent diabetes mellitus
 | ± 70 years | Until 58 years, weight minimum of 50 kg |
| Pancreas | * Diabetes mellitus type I
* Chronic or acute pancreatitis
 | Whole: ± 60 yearsIslets: ± 75 years | Whole:5 until ± 50yearsIslets: ± 75 years |
| Small bowel | * Bowel resection in the medical history
* Inflammatory bowel disease
* Celiac disease
 | 1 until ± 50years |  |

**Figure 2:** Utilization rate per organ type

**Table 2:** Odds ratios of risk factors for the risk of not utilizing a donor, excluding the DCD donors with an agonal phase exceeding two hours

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | OR, univariable model |  | OR, multivariable model |  |
| Donor type* DBD
* DCD
 | 1.001.80 [1.40-2.31] | **p<0.01** | 1.001.78 [1.28-2.48] | **p<0.01** |
| Donor age 0 – 15 years16 – 25 years26 –35 years 36 – 45 years46 – 55 years56 – 65 years66 – 75 years>75 years | 2.12 [0.85-5.32]1.001.16 [0.55-2.44]1.46 [0.76-2.81]1.34 [0.76-2.36]1.85 [1.09-3.16]2.69 [1.58-4.57]3.22 [1.58-6.57] | **p<0.01** | 1.81 [0.50-6.49]1.001.04 [0.44-2.41]0.69 [0.30-1.56]0.80 [0.41-1.59]1.08 [0.57-2.04]1.48 [0.78-2.80]2.84 [1.23-6.54] | **p<0.01** |
| Gender* Female
* Male
 | 1.001.40 [1.11-1.78] | **p<0.01** | 1.001.48 [1.10-1.99] | **p<0.01** |
| BMI* <18.5
* 18,5-25
* 25-30
* 30-35
* 35-40
 | 0.58 [0.23-1.49]1.000.95 [0.70-1.29]1.35 [0.91 -2.02]0.96 [0.47-1.92] | p=0.35 | 0.55 [0.19-1.54]1.000.80 [0.41-1.59]1.08 [0.70-1.65]0.59 [0.28-1.24] | p=0.64 |
| History of hypertension | 1.64 [1.28-2.11]]  | **p<0.01** | 1.26 [0.91=1.74] | p=0.17 |
| History of diabetes | 3.2 [2.26-4.49] | **p<0.01** | 2.81 [1.86-4.26] | **p<0.01** |
| Cause of death* CVA
* Cardiac event
* Trauma
* Other
 | 1.00 1.40 [1.03-1.82]0.63 [0.44-0.90]0.98 [0.70-1.38] | **p<0.01** | 1.001.07 [0.74-1.54]0.59 [0.37-0.94]0.84 [0.54-1.31] | p=0.10 |
| Blood group* O
* A
* B
* AB
 | 1.001.28 [0.99-1.66]1.53 [1.04-2.27]1.40 [0.76-2.60] | p=0.10 |  |  |