# Recipient assessment

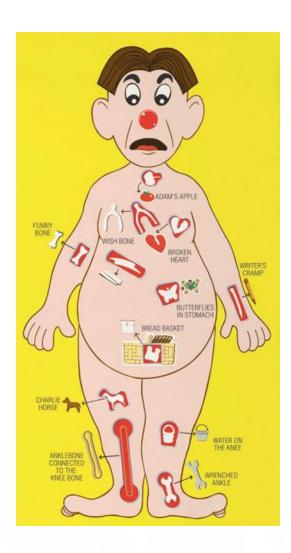
# **Guiding principles for assessment:**

- 1. Transplantation is not contraindicated for the patient
- 2. The patient will receive a suitably matched organ
- 3. The patient will have a good chance of surviving the transplant operation
- 4. The patient has room to put the new organ(s) in
- 5. The new organ(s) will receive an adequate blood supply
- 6. The patient will be able to look after their new organ(s)

## **Kidney assessment:**

#### Stanley...

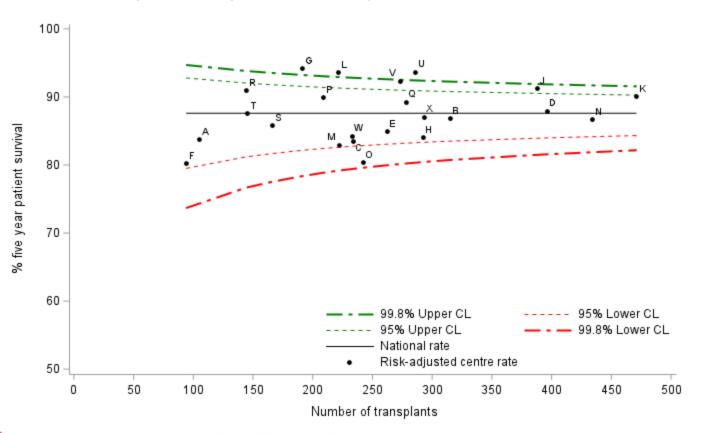
- 28 year old man
- ESRF unknown cause- On PD for 5 years
- BMI 37
- Drinker and recreational drug use
- Not currently working
- No live donors
- Didn't want transplant as a mate told him it was bad and happy with PD- multiple peritonitic infections
- No blood transfusions and no pregnancies
- Preserved urine output



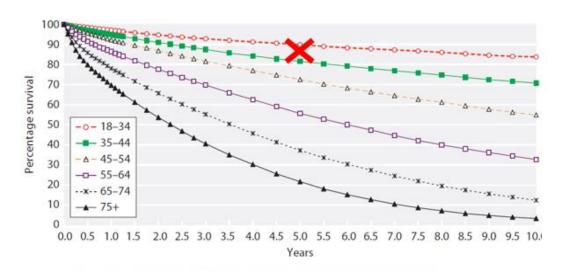
# Kidney: robust assessment

- Surgical review.... No issues
- **ECG**..... Normal sinus rhythm
- Chest X-Ray..... Normal size heart, no fluid overload, no signs of malignancy
- **ECHO**..... EF 30%, otherwise normal
- ETT..... No inducible ischemia
- Virology: all negative
- Tissue Typing:
  - No sensitising events
  - CRF 0%
- PD poor fluid management, line removal due to peritonitis, HDx commenced
- Repeat ECHO.... EF 55%
- MIBI/DSE
- Coronary Angiogram

Figure 6.4 Risk-adjusted five year patient survival rates for first deceased donor kidney transplants in adult patients, between 1 April 2011 and 31 March 2015



# **Kidney: contraindications**



#### **Absolute contraindications:**

- Uncontrolled cancer
- Active systemic infections
- Any condition with life expectancy < 2 years</li>

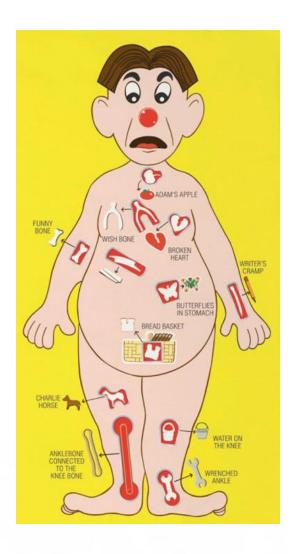
#### Relative contraindications:

- Predicted patient survival of < 5 years</li>
- Malignant disease not amenable to curative treatment
- HIV infection not treated with HAART or progression to AIDS
- Cardiovascular disease
- Predicted graft loss > 50% at 1 year
- Predicted non-adherence to immunosuppressant therapy
- Immunosuppression predicted to cause life threatening complications
- Raised BMI

## **Pancreas assessment:**

#### Stanley...

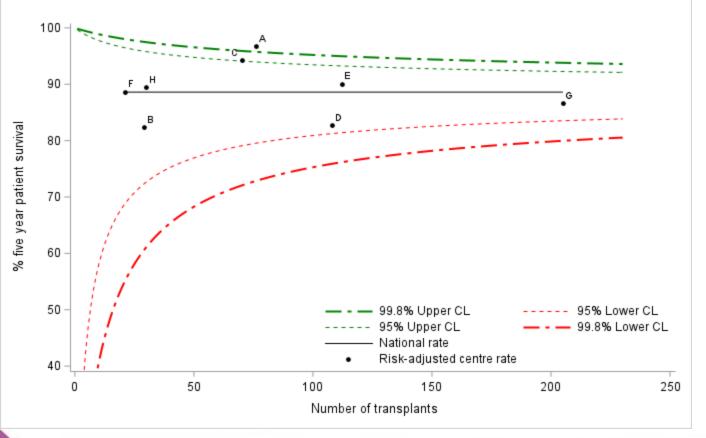
- 35 year old man
- Kidney transplant
- BMI 32
- Drinker and recreational drug use
- Not currently working
- No blood transfusions and no pregnancies
- NODAT post transplant
- Compliance issues:
  - Multiple hypos
  - Erratic tac levels
  - Missed clinic appointments
- Chronic graft dysfunction: eGFR 19



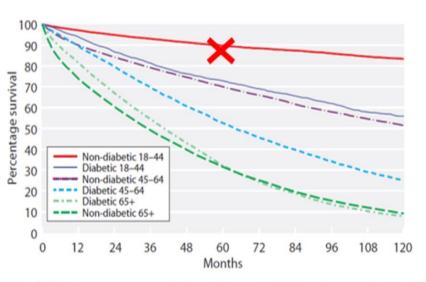
## Pancreas: robust assessment

- Surgical review.... No issues
- **Pelvic X-ray**.... No calcification to vessels
- CT abdomen.... room to plumb in
- US abdomen... no gallstones
- ECG..... Normal sinus rhythm
- Chest X-Ray..... Normal size heart, no fluid overload, no signs of malignancy
- **ECHO**..... EF 55%
- ETT..... No inducible ischemia
- Virology: all negative
- Tissue Typing:
  - Previous transplant
  - CRF 15%

Figure 6.3 Risk-adjusted five year patient survival rates for deceased donor first SPK transplants, between 1 April 2012 and 31 March 2016



## **Pancreas: contraindications**



**Fig. 5.19.** Long term survival for incident RRT patients with and without diabetes by age group, 2004–2013 cohort, followed up for a minimum of three years

#### **Absolute contraindications:**

- Excessive cardiovascular risk including:
  - o Angiography indicating clinically significant and severe and non- correctable coronary artery disease
  - o Recent myocardial infarction (last 6 months)
- Non-curable malignancy
- Active sepsis
- Active peptic ulcer
- Major psychiatric history likely to result in nonadherence
- Inability to withstand surgery and immunosuppression

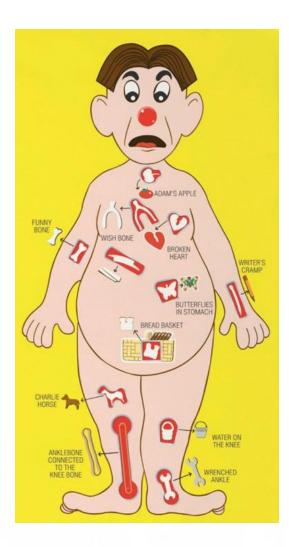
#### **Relative contraindications:**

- Ejection fraction below 50%
- Cerebrovascular accident with severe long-term impairment
- Active infection with Hepatitis B or C virus
- Body mass index greater than 30 kg/m2 (absolute contraindication for PTA and for type 2 diabetics)
- Insulin requirements > 100 units/day
- Extensive aorta/iliac and/or peripheral vascular disease
- Continued abuse of alcohol or other drugs

## **Bowel assessment:**

#### Stanley...

- 43 year old man
- SPK after kidney transplant
- BMI 18
- Drinker and recreational drug use
- Not currently working
- EPS.... Multiple laparotomies and bowel resections
- TPN with short gut syndrome
- Multiple line infections

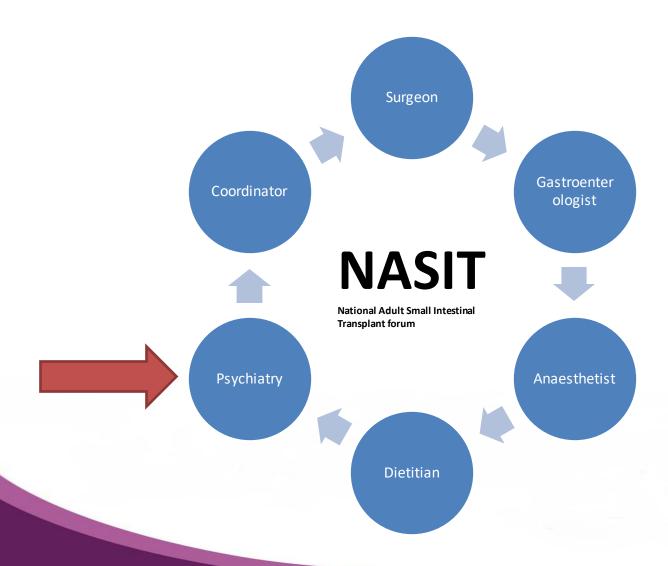


## **Bowel: robust assessment**

- Chest X-Ray..... Normal size heart, no fluid overload, no signs of malignancy
- Surgical review.... LOTS of issues
- CT CAP..... room to plumb in
- US liver and portal system... no issues
- Central vein dopplers... limited access for further TPN
- Liver biopsy... normal
- **Endoscopy**.... no contraindications
- ECG..... Normal sinus rhythm
- ABG... Normal
- Pulmonary function tests... Normal
- **ECHO**..... EF 50-55%
- ETT..... No inducible ischemia
- Virology: all OK
- Tissue Typing:
  - Previous transplant(s)
  - CRF 35%
- Dental assessment... Multiple caries



## **Bowel: assessment**



## **Bowel: contraindications**

#### **Absolute contraindications:**

- Metastatic malignant disease
- Systemic disease with a poor prognosis
- Severe neurological diseases with progressive impairment

#### Relative contraindications:

- Active generalised sepsis or severe systemic infection
- Requirement for ventilator support
- Neurological diseases with permanent sequelae
- Insufficient venous access
- Systemic disease with a life expectancy <5 years</li>
- Neoplastic disease with an uncertain prognosis
- Psychosis unlikely to respond to full treatment and result in non-adherence (for adults)
- Patients unlikely to adequately comply with post-small intestinal transplant treatment, including inadequate social support, particularly poor social circumstances, or personality disorder with 'at risk' behavior
- Age above 60 years

# Bowel: chances of surviving the operation

High risk....

