

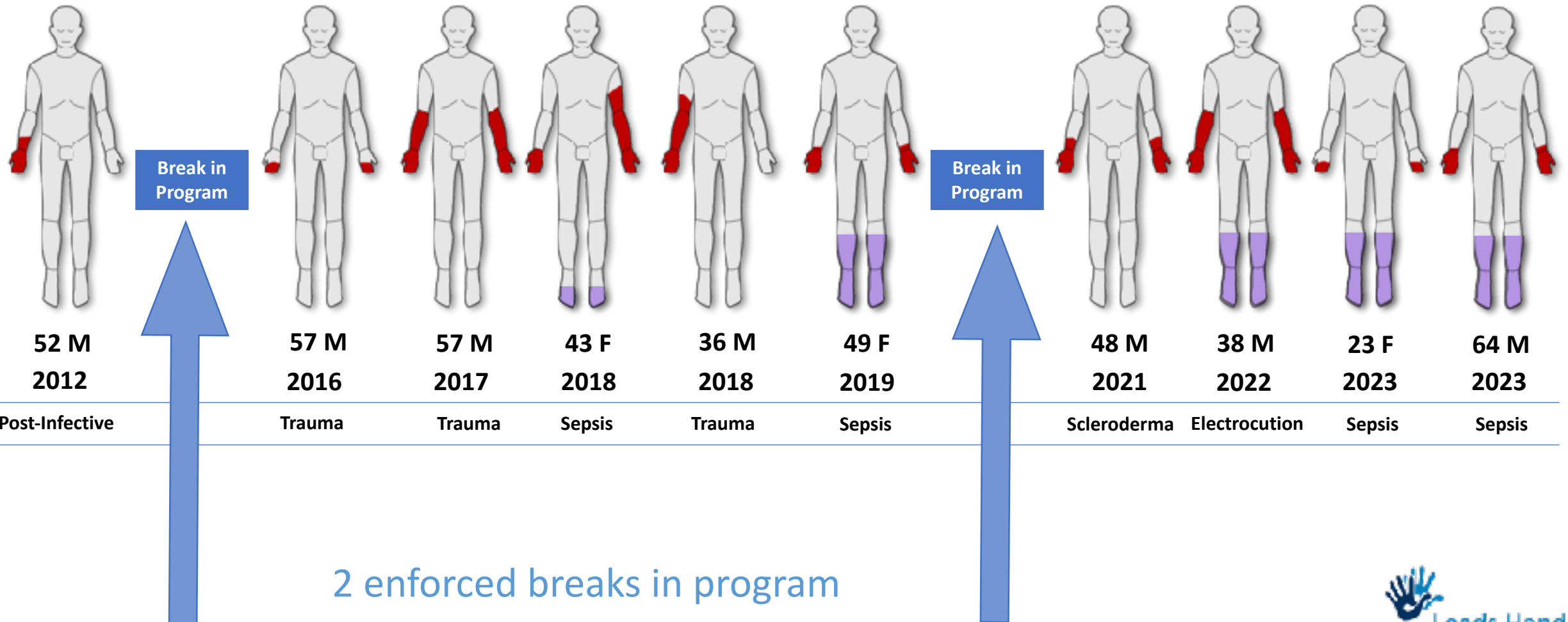
Leeds UK SOP for recipient selection and preparation for Hand Transplant

The Year of Waiting

simon kay

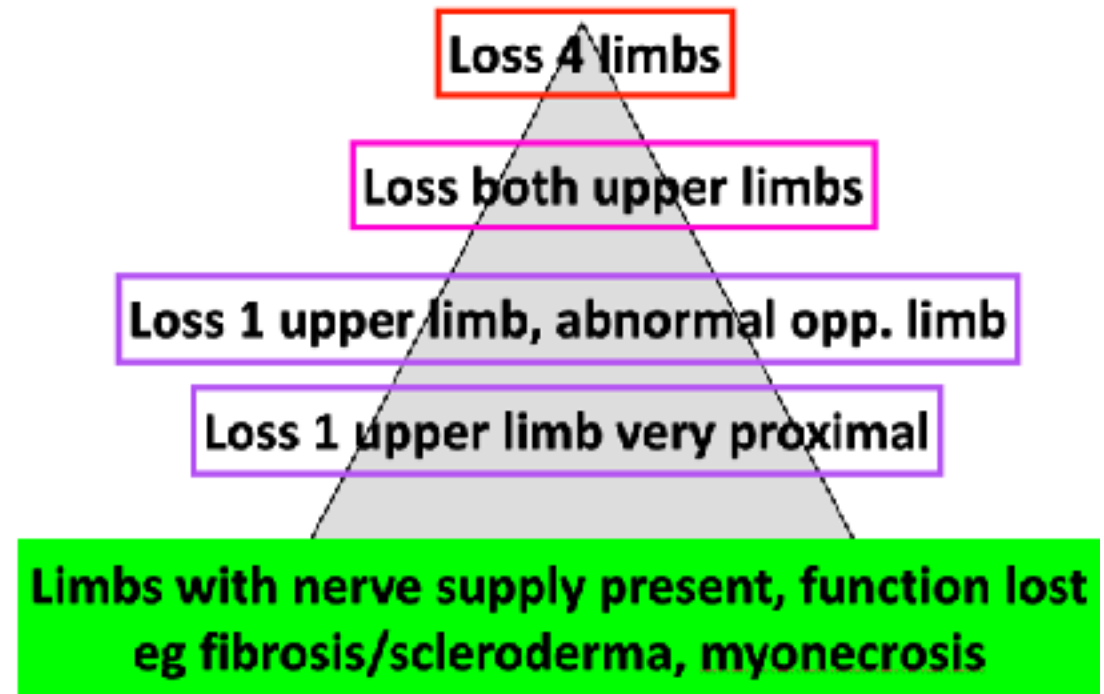
March 2024

7 YEARS, 17 HAND TRANSPLANTS, 10 PATIENTS



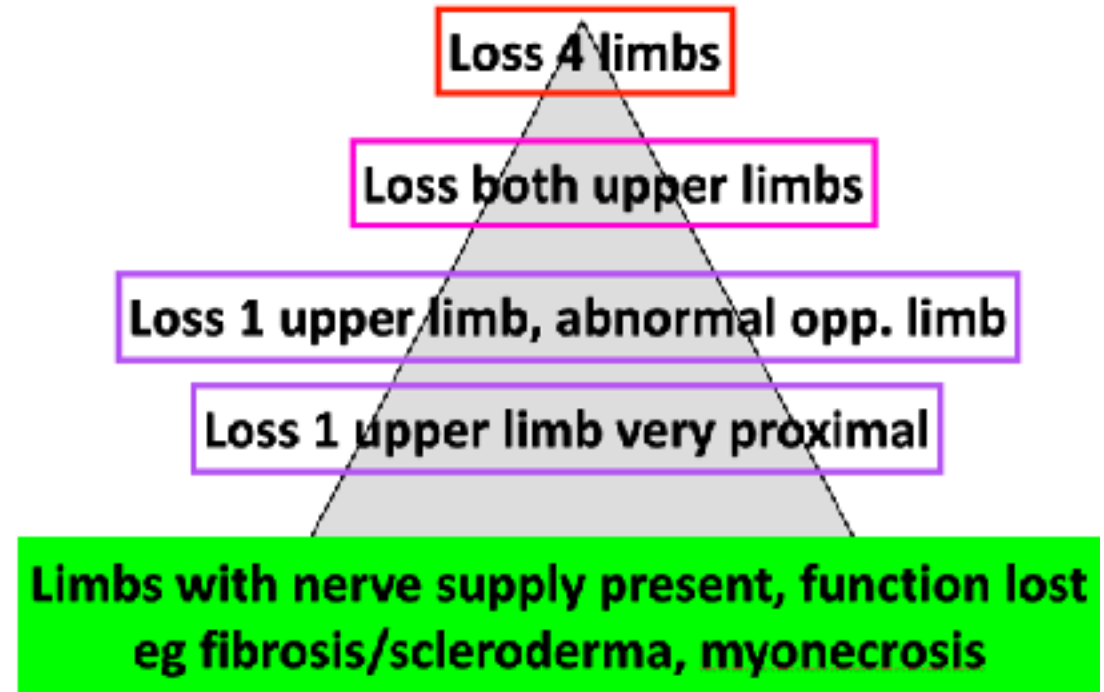
so how do you get a hand transplant

- Physically suitable
- Psychologically suitable
- Immunologically suitable
- Over 18 years age (at present)



Hierarchy of needs within a recipient

- Limb loss or functionless limb
- Exhausted prosthetic options
- Has sufficient capacity to make decision
- Satisfies screening criteria



hypothesis: two avoidable reasons for rejection

- Immunological
- Behavioural: the first case current era and its failure

Standard immunological serial assessment

- Takes place repeatedly over a year
- Identifies fluctuating HLA antibodies
- Allows virtual crossmatch at time of offer

Psychology plays a most important role

- In Leeds, all potential hand transplant patients undergo extensive psychological assessment to assess their psychological suitability for transplantation and to establish their expectations from transplant
- It provides a detailed understanding of their life, their request for surgery, and their personal characteristics.
- It also facilitates the informed complex decision-making required of them, whereby they weigh up the risks and benefits of hand transplant, specifically applied to them
- Screens for absolute contraindications

Psychology assessment

- Stepped approach
- Semi-structured interview
- Psychometric assessment / data collection
- Provision of written information prior to the appointment (includes a section on psychological risks).

Characteristics sought in recipient

- Cognitive **capacity** to undertake decision-making and informed consent
- Ability to cope process and adjust
- **Stability, reliability and compliance** demonstrated over time
- Communicate realistic **tolerance and clear expectations** of physical outcome

Physical characteristics to consider

- Size
- Age
- Gender
- Skin tone
- Tattoos
- Scars

Psychology in addition....

- provides detailed information to enable consent
- test retention over time to validate consent

The Year of Waiting

- From acceptance to program
 - 12 months minimum
-
- 4X Psych assessments and contacts
 - 4X Immunology assessment

outcomes

What human hands really do

Mechanical
Precise



Mechanical
Strong



Sensory
temp, vibrn, touch
stereo, proprio



Communicating



Completeness



Aesthetics



Warmth
Touch



Sex





Mechanical
Precise



Mechanical
Strong



Sensory
temp, vibrn, touch
stereo, proprio



Completeness



Communicating



Warmth
Touch



Sex



Aesthetics

