

Project scope: Living Donor Transplantation

21 May 2021

Research question

In order to assess the value of living donor organ transplantation, Healthcare Improvement Scotland (HIS) has been asked examine the cost effectiveness of living donation within the Scottish healthcare setting.

To do this, the Scottish Health Technologies Group (SHTG) will develop an economic model to measure the anticipated costs and health benefits of implementing the Living Donation program over the coming years. Model data will be drawn from kidney transplant patients over the previous ten years. The data will be used to predict how the implementation of living donation will impact on healthcare service costs in the future, as well as the health benefits to kidney transplant patients when compared to more traditional deceased donor transplantation.

The results will be used by NSD to aid decision-making and planning about how the service is run in the future. It is also envisaged that the results will help local services be able to cope with the anticipated increase in demand of living donation over the next five years.

Inclusion criteria

The selection of studies for inclusion in the literature review element of the project will be based on the following criteria:

Population	Any person over the age of 18 who is identified in the Scottish Renal Registry as having had a kidney transplant, is/was waiting for a kidney transplant or is/was on dialysis within the time period 1 April 2009 to 31 st March 2019 (or last available).
Intervention	Living donor kidney transplant
Comparator	Deceased donor kidney transplant and dialysis
Outcomes	Costs, Short term outcomes, Long term survival, Transplant activity,
Limits	n/a

Planned activities

SHTG have agreed on the following activities to support the development of an assessment on living donor transplantation:

1. Develop a discrete event simulation model to assess the cost effectiveness of living donor transplantation
2. Produce a technical report for NSS to inform the national transplantation strategy.
3. Engagement and consultation – peer-review by relevant experts in Scotland.

End products

At the end of the project, SHTG will publish:

- SHTG Assessment
- Plain Language Summary

Timescales (approximate)

October 2021

(Data for NSS report required in January 2022)