Simultaneous Living Donor Transplant Tolerance Program Roadmap

**Readiness**
Once a living donor has been approved, the recipient is prepared for kidney transplantation.

**Conditioning**
The recipient is admitted 1 week before transplant to start medication and thymus irradiation to prepare for transplantation.

**Transplant**
An infusion of donor bone marrow or blood stem cells is combined with kidney transplantation to induce transplant tolerance.

**Tapering**
Following a normal biopsy, gradual reduction of immunosuppressive medication begins and is completed 1 year after transplantation.

**Monitoring**
Biopsy of the transplanted kidney and blood tests performed 6 months post-transplant to monitor for rejection.

**Maintenance**
The recipient is on immunosuppressants to prevent rejection of the transplanted kidney.

**After Transplant**
Donor bone marrow or blood stem cells will expand in the recipient body for weeks to months after transplantation and then slowly disappear.

The Legorreta Center for Clinical Transplant Tolerance (CCTT)

“*Our aim is to transform the lives of transplant patients by developing innovative care strategies that eliminate or minimize the need for lifelong immunosuppressive medications.*”

Tatsuo Kawai, MD, PhD
Director

www.massgeneral.org/tolerance

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