



Transplant Times

Organ Transplant Awareness Program
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January 2024

Promoting Organ Donor Awareness; Supporting the Transplant Community

www.otapnm.com

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Hello!

I apologize for not including January anniversaries in the last email. I have included them below. I lost my mother on January 2nd and am having a hard time dealing with that loss.

We will be revamping the scholarship program to include social media posts, so there is no essay contest this year. I have found a new sponsor for the Organ Donor Registry Bill. We will wait until next year's 60 day legislative session to renew that effort.

In the meantime, a UNM student is working on a video to educate people about the donor registration process. Hope to provide the link soon. If you have any ideas about promotions, let me know.

-Take Care, Evelyn



Doris Alrick	Kidney	January 6, 2014	10 years
Linda Weil	Kidney	January 12, 2012	12 years
Evelyn Rivera	2nd Liver	February 26, 2015	9 years

if Donor Cell Infusions Precede Organ Transplants, Less Immunosuppression May Be Needed

October 11, 2023

<https://www.genengnews.com/topics/translational-medicine/human-trial-suggests-donor-cell-therapy-in-transplant-recipients-may-reduce-need-for-immunosuppressants>

Data from a year-long Phase I clinical trial suggest that donor cell therapy for people who are receiving liver transplants can safely calm the recipient's T cells and may reduce the risk of their immune system rejecting the transplanted organ. The trial found that patients who received donor-derived regulatory dendritic cells (DCreg) infusions exhibited a drop in anti-transplant immune responses that was similar to that of individuals who received standard immunosuppressive (IS) drugs.

The early-stage clinical trial results, reported by University of Pittsburgh School of Medicine scientists, point to a path that may spare organ transplant recipients from the serious side effects of long-term immunosuppressant use—which can include cancer, diabetes, kidney failure, and susceptibility to infections—allowing them to be weaned off immunosuppressants without rejecting the transplanted organ.

“These trial results are very encouraging,” said Angus W. Thomson, PhD, DSc, distinguished professor of immunology and surgery at Pitt and member of the Thomas E. Starzl Transplantation Institute. “Right now, we’re seeing preliminary evidence that this intervention is modifying the recipient’s immune response in such a way that we may be able to safely reduce—or even withdraw—immunosuppression. It would be a significant service to the transplantation community if patients are no longer dependent indefinitely on immunosuppressants.” Senior author Thomson and colleagues outlined the study details and results in *Science Translational Medicine*, in a paper titled “[Donor-derived regulatory dendritic cell infusion modulates effector CD8+ T cell and NK cell responses after liver transplantation.](#)”

The “remarkable success” of organ transplantation as the treatment of choice for end-stage disease is related to the development of safe and effective antirejection agents, the authors noted. “However, immunosuppressants in current use suppress host responses nonspecifically and, with rare exceptions, must be taken indefinitely to ensure graft survival.” Individuals taking antirejection treatment over the long term may be susceptible to serious complications of infection, cancer and potentially serious off-target side effects, including cardiovascular issues. “Thus, despite excellent (>90%) kidney or liver allograft survival at one year, long-term outcomes remain poor, with an

average of only 60% graft survival at 10 years,” the team noted. Enabling better long-term graft and patient survival will be dependent on the development of strategies that induce donor-specific immune tolerance, and will allow donor recipients to reduce or stop immunosuppressive therapy within a few years.

The ability of the liver to regenerate means that people can donate a portion of their liver to someone else in need. Both the part of the liver left in the donor and the part given to the recipient will regrow to full-sized livers. This is called a living donor liver transplant, or LDLT.

For the reported Phase I trial, carried out by Thomson in collaboration with Abhinav Humar, MD, clinical director of the Starzl Transplantation Institute and chief of the Division of Transplantation at UPMC, and colleagues, 15 patients who were scheduled to receive LDLT also received the donor DCreg infusion. These “STUDY” patients were then compared with another 40 standard of care (SOC) patients receiving LDLT who were not given the donor immune cell infusion.

For the trial procedure, several weeks before surgery, the research team took blood from the donors for the trial patients and separated out the monocyte white blood cells. They then induced the monocytes to make regulatory dendritic cells, a type of immune cell that helps the rest of the immune system distinguish foreign invaders that must be eliminated from parts of the body that should be left alone. “Regulatory dendritic cells (DCreg) are innate immune cells that down-regulate alloimmune responses in preclinical models” the authors explained. “... there is a strong rationale for assessing the ability of DCregs to attenuate host immune reactivity that may permit safe minimization or early withdrawal of immunosuppressive (IS) therapy in clinical organ transplantation.”

A week before the liver transplant procedure the newly made DCregs were infused into the liver recipient patients. The liver transplant then proceeded as normal and the patients were given immunosuppressant medications just like they would have if they had not received the DCregs.

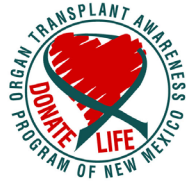
Remodeling and reduced density of CD8+ T cells in 12M graft biopsies in DCreg-infused patients [Tran et al., *Science Translational Medicine* (2023)]The main goal of the newly reported 12-month (12M) trial was to determine feasibility and safety of the cell therapy. The results showed that there were no safety differences between the STUDY patients who received the DCreg infusion, and the standard-of-care patients. Moreover, it was feasible to add the DCreg infusion to the clinical workflow while still performing

the transplantation in a timely manner. “Donor-derived DCreg infusion was well tolerated in all STUDY patients,” the authors noted. “There were no differences in postoperative complications or biopsy-confirmed acute rejection compared with SOC patients up to 12M.”

The researchers also checked for differences in immunologic activity between the two patient groups. A year after the transplantation, they found that the patients who received the DCreg infusion exhibited a reduction in other immune cells that would signal a negative reaction to the transplanted liver. In animal studies this reduction has enabled researchers to successfully wean animals off immunosuppressants. “The downmodulation of effector CD8+ T cell and NK cell responses observed may be conducive to reduced dependence on IS drug therapy and induction of operational transplant tolerance,” they wrote.

Interestingly, the transplanted DCregs persisted in the recipient patients for only a few days. But during that time, they were able to produce exosomes that allow cells to communicate by transferring messages from one cell to another, influencing a variety of cellular behaviors. “We believe that these donor-derived exosomes are preemptively conditioning the prospective LDLT recipient to see donor cells as safe,” said Thomson. “A year post-transplant, clinicians will then determine which patients can start tapering off immunosuppressants. Then time will tell if our approach works.” The authors further noted, “Analyses of additional DCreg-infused patients are now needed to extend mechanistic understanding in relation to clinical outcomes that may underpin further evaluation and development of this innovative approach to cell therapy in organ transplantation.”

Thomson and the team continue to follow the trial participants and plan to report more results in about a year.



2024 ANNUAL MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip Code _____

Phone # _____ Cell Phone _____

Email address is for organization communications only _____

Membership dues are not necessary at this time. I do need a form filled out for anniversary recognition and voting privileges.

____ **Candidate:** Organ/Tissue Type: _____ Date Listed ____/____/____

____ **Recipient:** Organ/Tissue Type: _____ Date Received ____/____/____

2nd transplant date -month day year: ____/____/____

____ **Donor/member of a Donor Family:** Donor Name _____ Organ/Tissue Type _____

Transplant date -month/day/year: ____/____/____

____ **Friend of OTAP**

Opportunities - Please check all that apply:

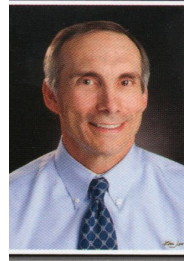
I would like to volunteer: promotional events _____ fundraising events _____

Personal information such as phone number _____ and address _____ may be shared with others.

I would like to be a reader for the scholarship award _____

Suggestions _____

Thank You for your support!



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OTAP Mission Statement

The mission of Organ Transplant Awareness Program is to promote organ donation and support transplant community members including transplant candidates, donor families, living organ donors, transplant recipients, and transplant families.



Kundalini Yoga

breath, sound, energy

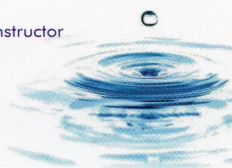
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