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# Optimizing Immunosuppression, Precision Medicine, and Big Data:

## The Required Path for Innovation in Transplantation

Transplant medicine is moving toward a future of precision medicine that will improve long-term patient outcomes. How success in transplant is defined in 2018 may look much different from what will define success in 2025. Join experts Dr. Vincenti and Dr. Segev as they translate the dynamics of immunosuppression optimization, precision medicine, and the impact of big data on the future of transplant medicine.

**June 4, 2018** Lunch begins at 12:45 pm

**Sheraton Seattle Hotel, Metropolitan Ballroom A/B**  
1400 6th Ave, Seattle, WA 98101

**#TransplantMed**



Provided by  
**CME**  
Outfitters 

*This symposium is not part of the ATC official educational program  
and the sessions and content are not endorsed by ATC*



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### AGENDA

**12:45 pm** Lunch begins  
**1:00 pm** Presentation begins

### FACULTY



#### **Flavio Vincenti, MD (Moderator)**

Professor of Clinical Medicine and Surgery  
Medical Director, Kidney-Pancreas Program  
University of California San Francisco  
San Francisco, CA



#### **Dorry Segev, MD, PhD**

Marjory K. and Thomas Pozefsky Professor of Surgery and Epidemiology  
Associate Vice Chair, Department of Surgery  
Director, Epidemiology Research Group in Organ Transplantation  
Johns Hopkins University  
Baltimore, MD

### TARGET AUDIENCE

Transplant surgeons, nephrologists, physicians, physician assistants, nurse practitioners, nurses, and pharmacists who treat transplant patients

### COMMERCIAL SUPPORT STATEMENT

Supported by an educational grant from Novartis Pharmaceuticals Corporation

### SYMPOSIUM DETAILS

For more information on this symposium and to pre-register visit [www.cmeoutfitters.com/TransplantMed](http://www.cmeoutfitters.com/TransplantMed) or scan the QR code on the right.



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### LEARNING OBJECTIVES

- Identify modifiable and non-modifiable risk factors for allograft loss in patients receiving a kidney transplant.
- Integrate strategies to optimize immunosuppression and minimize adverse events in transplant recipients.
- Explore the impact of big data on precision medicine and the future of transplant medicine.

#### **The following learning objectives pertain only to those requesting CNE or CPE credit:**

- Differentiate between modifiable and non-modifiable risk factors for allograft loss in patients receiving a kidney transplant.
- Assess strategies to optimize immunosuppression and minimize adverse events in transplant recipients.
- Analyze the impact of big data on precision medicine and the future of transplant medicine.

### ACCREDITATION

**CME Credit (Physicians):** CME Outfitters, LLC, is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CME Outfitters, LLC, designates this live activity for a maximum of 1.25 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**CNE Credit (Nurses):** Provider approved by the California Board of Registered Nursing, Provider Number CEP 15510, for 1.25 contact hours.

*Note to Nurse Practitioners and Clinical Nurse Specialists: the content of this activity pertains to pharmacology. Earn up to 1.25 contact hours of pharmacotherapeutic contact hours.*

**CPE Credit (Pharmacists):** CME Outfitters, LLC, is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education. 1.25 contact hours (0.125 CEUs)  
Universal Activity Number: 0376-0000-18-015-L01-P Type: knowledge-based

**ABIM/MOC Credit:** Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 1.25 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

### QUALITY PAYMENT PROGRAM

This activity counts towards MIPS Improvement Activity requirements under the Medicare Access and CHIP Reauthorization Act of 2015 (MACRA). Clinicians should submit their improvement activities by attestation via the CMS Quality Payment Program website.

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### Flavio Vincenti, MD (Moderator)

Professor of Clinical Medicine and Surgery  
Medical Director, Kidney-Pancreas Program  
University of California San Francisco  
San Francisco, CA

#### BIOGRAPHY

Dr. Vincenti is a Professor of Clinical Medicine at the University of California, San Francisco and Medical Director of the Kidney-Pancreas Program. His major research interests are in recurrence of focal glomerulosclerosis. He continues to pursue studies to develop strategies to decrease and treat recurrence of FSGS. He is also interested in developing immunosuppression regimens that decrease toxicities, improves the use of current drugs and improves long-term outcomes. Another area of interest is to apply precision medicine to transplantation using molecular biomarkers. Dr. Vincenti was the primary investigator of an article published in 1978 in the *New England Journal of Medicine* concerning the important role of blood transfusions in improving the outcome following kidney transplantation. He also reported a series of articles on the complications of transplantation including of aseptic necrosis and recurrent diseases in renal allografts. He has contributed to the understanding of the incidence and risk of recurrence of focal glomerulosclerosis as well as its outcome after transplantation. The National Kidney Foundation of Northern California honored him in May 2000 for his contributions to transplantation and treatment of renal failure. He was the recipient of the AST 2002 Novartis Clinical Science Award. He was awarded in 2012 the Lifetime Achievement Award in transplantation by the American Society of Transplantation. He has been an active member of the American Society of Transplantation and served as its president (2007-2008).

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### Dorry Segev, MD, PhD

Marjory K. and Thomas Pozefsky Professor of Surgery and Epidemiology  
Associate Vice Chair, Department of Surgery  
Director, Epidemiology Research Group in Organ Transplantation  
Johns Hopkins University  
Baltimore, MD

#### BIOGRAPHY

Dr. Segev is the Marjory K. and Thomas Pozefsky Professor of Surgery and Epidemiology and Associate Vice Chair of Surgery at Johns Hopkins University. He is the founder and director of the Epidemiology Research Group in Organ Transplantation (ERGOT), the largest and most prolific group of its kind in the world. Dr. Segev was the first to demonstrate the survival benefit of incompatible kidney transplantation across the United States and is responsible for the first HIV-to-HIV transplants in the United States. His NIH-funded research includes kidney exchange, desensitization, long-term donor risk, access to transplantation, expanding transplantation including HIV+ donors, geographic disparities, post transplant outcomes, and the intersection between transplantation and gerontology. With a graduate degree in biostatistics. Segev focuses on novel statistical and mathematical methods for simulation of medical data, analysis of large healthcare datasets, and outcomes research.

Dr. Segev has published over 350 peer-reviewed research articles, including 12 in *JAMA*, *NEJM*, and *Lancet* and over 100 in the *American Journal of Transplantation*. Reflecting this publication track record, he was recently awarded the American Society of Transplantation's Clinical Science Investigator Award. He is a current councilor of the American Society of Transplant Surgeons and former chair of the American Transplant Congress. His work has directly influenced policy, including two Congressional bills (the Norwood Act for kidney exchange and the HOPE Act for HIV-to-HIV transplants), and is regularly featured in widely read media including *TIME* magazine, *Wall Street Journal*, and the *New York Times*.

Dr. Segev is most inspired by his role as a mentor, having mentored over 100 graduate students, residents, and faculty, and is the only general surgeon in the US funded by an NIH/NIDDK Mentoring Grant.

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### DISCLOSURE DECLARATION

It is the policy of CME Outfitters, LLC, to ensure independence, balance, objectivity, and scientific rigor and integrity in all of their CE activities. Faculty must disclose to the participants any relationships with commercial companies whose products or devices may be mentioned in faculty presentations, or with the commercial supporter of this CE activity. CME Outfitters, LLC, has evaluated, identified, and attempted to resolve any potential conflicts of interest through a rigorous content validation procedure, use of evidence-based data/research, and a multidisciplinary peer review process. The following information is for participant information only. It is not assumed that these relationships will have a negative impact on the presentations.

Dr. Segev reports that he receives speaker honoraria for sanofi-aventis U.S. LLC, and Novartis Pharmaceuticals Corporation for lectures unrelated to their products.

Dr. Vincenti reports that he receives research support from Angion Biomedica Corp.; Astellas Pharma US, Inc.; Bristol-Myers Squibb Company; Genentech, Inc.; Novartis Pharmaceuticals Corporation; Pfizer Inc.

Jeffrey Helfand, DO, MS (peer reviewer) has no disclosures to report.

Mae Ochoa, RPh (peer reviewer) has no disclosures to report.

Sharon Tordoff (planning committee) has no disclosures to report.

Jan Perez (planning committee) has no disclosures to report.

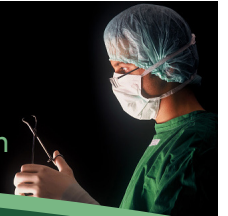
Disclosures were obtained from the CME Outfitters, LLC staff:

No disclosures to report.

Faculty of this CE activity may include discussions of products or devices that are not currently labeled for use by the FDA. The faculty have been informed of their responsibility to disclose to the audience if they will be discussing off-label or investigational uses (any uses not approved by the FDA) of products or devices.

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### OBTAINING CREDIT

In order to receive credit, please complete the evaluation/credit request form found on your table and turn them in to the CME Outfitters staff on your way out. Don't forget: If claiming ABIM MOC credit, please write ABIM # on your form.

### DOWNLOADABLE RESOURCES

Downloadable resources will be available at  
[www.cmeoutfitters.com/TransplantMedResources](http://www.cmeoutfitters.com/TransplantMedResources)



### CLAIM YOUR ABIM MOC CREDIT

#### *In 3 Simple Steps*

1. Actively participate in the meeting by responding to ARS and/or asking the faculty questions  
*(It's ok if you miss answering a question or get them wrong, you can still claim MOC)*
2. Complete the evaluation form found on your tables  
*(For live stream participants, follow the credit claim link)*
3. Be sure to fill in your ABIM ID number and DOB (MM/DD) on the evaluation, so we can submit your credit to ABIM.



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### QUALITY PAYMENT PROGRAM (QPP) IMPROVEMENT ACTIVITY

#### 4 Steps for Completion

1. Actively participate in the meeting by responding to ARS and/or asking the faculty questions  
*(It's ok if you miss answering a question or get them wrong)*
2. Complete both
  - The evaluation form found on your table
  - The QPP Improvement Activity form found on your table
3. Over the next 90 days, actively work to incorporate improvements in your clinical practice from this presentation
4. Complete the follow-up survey from CME Outfitters in approximately 3 months

We will then send you confirmation of your participation. To submit to CMS, clinicians must attest to their completion in a Quality Payment Program Improvement Activity.

#### ENGAGE WITH US ON TWITTER!

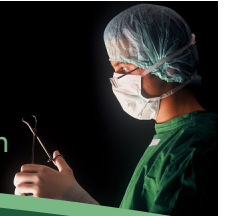
Follow us on [@cmeoutfitters](https://twitter.com/cmeoutfitters) for announcements about upcoming CME opportunities, health care news, and more! We will be live tweeting from today's symposium – tweet us your questions using [#TransplantMed](https://twitter.com/TransplantMed)

#### THANK YOU FOR JOINING US TODAY

This symposium will be available as a **web replay beginning July 24, 2018**, please check [www.CMEOutfitters.com](http://www.CMEOutfitters.com) for more information on that date.

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### INSTRUCTIONS FOR INTERACTIVE TECHNOLOGY

If you would like to use your tablet or mobile device to answer polling questions, view the onsite presentations, and submit questions to the faculty, please follow the instructions below:

#### 1. Get Connected

- Please connect to the **CME Outfitters network** with your mobile device or laptop. This network does not have a password.  
*\* Please note that this network is a local network and does NOT mean you're connected to the internet.*
- Once you have joined the network, go to **arraylearn.com**.
- **You are now connected to the symposium.** All content and polling questions can be viewed on your device as long as you are connected to the above listed network.

#### 2. Ask a Question to the Faculty

- Please click on **"Ask a Question"** and type your question. Please include the faculty member's name if the question is specifically for them. Your question will be sent to the faculty for the question and answer portion of the session.

#### 3. View and Take Notes on Presentation Slides

- Please click on the **"Take a Slide Note"** button. If you did not enter your email address when you joined the meeting, you will be required to do so for note taking. When the meeting is complete, all your notes will be emailed to you within 5 business days.