

Past, Present & Future of Kidney Replacement Therapy: It started in Kampen
June 24th, 2025 in Kampen, the Netherlands

09:30 Welcome and Opening: Tom Oostrom, Director Dutch Kidney Foundation

PAST:

- **It happened in 1945: The first patient who survived acute renal failure by hemodialysis**
Joop Offerman (MD, PhD) Zwolle, the Netherlands
- Short presentations by the **4 patient associations** of Poland (OSMN), United Kingdom (Kidney Care UK), Canada & USA (AAKP). Kolff built 4 extra hemodialysis machines at his own costs and sent them to these 4 countries, as they sent the troops that liberated the Netherlands.
- **The first Hemodialysis in the USA: 1947 and beyond**
Prof. Jonathan Himmelfarb (MD, PhD), Mount Sinai Medical School, New York, USA
- **Invention of the Shunt: The permanent Vascular Access that enabled Chronic Hemodialysis**
Prof. Buddy Ratner (PhD) Washington University, Seattle, USA

PRESENT:

- **Miniaturization by Dialysate Regeneration**
Christian Blüchel (PhD) NextKidney, Singapore
- **Newly developed portable machines for Hemodialysis and Peritoneal Dialysis**
Prof. Karin Gerritsen (MD, PhD) UMC Utrecht, the Netherlands
- **Vascular Acces: Present and Future**
Prof. Joris Rotmans (PhD) LUMC Leiden, the Netherlands
- **Present state of Hemodialysis and Bridge to Future Developments**
Fokko Wieringa (PhD) IMEC, Eindhoven & Associate Prof. UMC Utrecht, the Netherlands

FUTURE:

- **Via Portable & Wearable Hemodialysis towards Implantable Solutions**
Prof. Shuvo Roy (PhD), UCSF, San Francisco, USA
- **NXTGEN HighTech & KIDNEW Projects, working towards Implantable Hemodialysis**
Fokko Wieringa (PhD) IMEC, Eindhoven, the Netherlands
- **Transatlantic or even World-wide Coopetition for an Implantable Artificial Kidney**
Murray Sheldon (MD) FDA Washington DC, USA
- **Applying the Lessons from Kolff and Scribner to create a better Future**
Steve Ash (MD), Hemocleanse, West Lafayette, Indiana, USA

Panel Discussion: Onward to the Implantable Artificial Kidney

Moderator Tom Oostrom, Director Dutch Kidney Foundation, with representatives from:
European Kidney Health Alliance, NXTGEN Hightech, Nationaal Groeifonds NL, FDA, the Kidney Project.

Handout of the Willem Kolff Prize (the “Nobel Prize” for innovators of artificial organs)

17:00 Closure & Group Photo (at the old Kampen Hospital where Hemodialysis was invented)