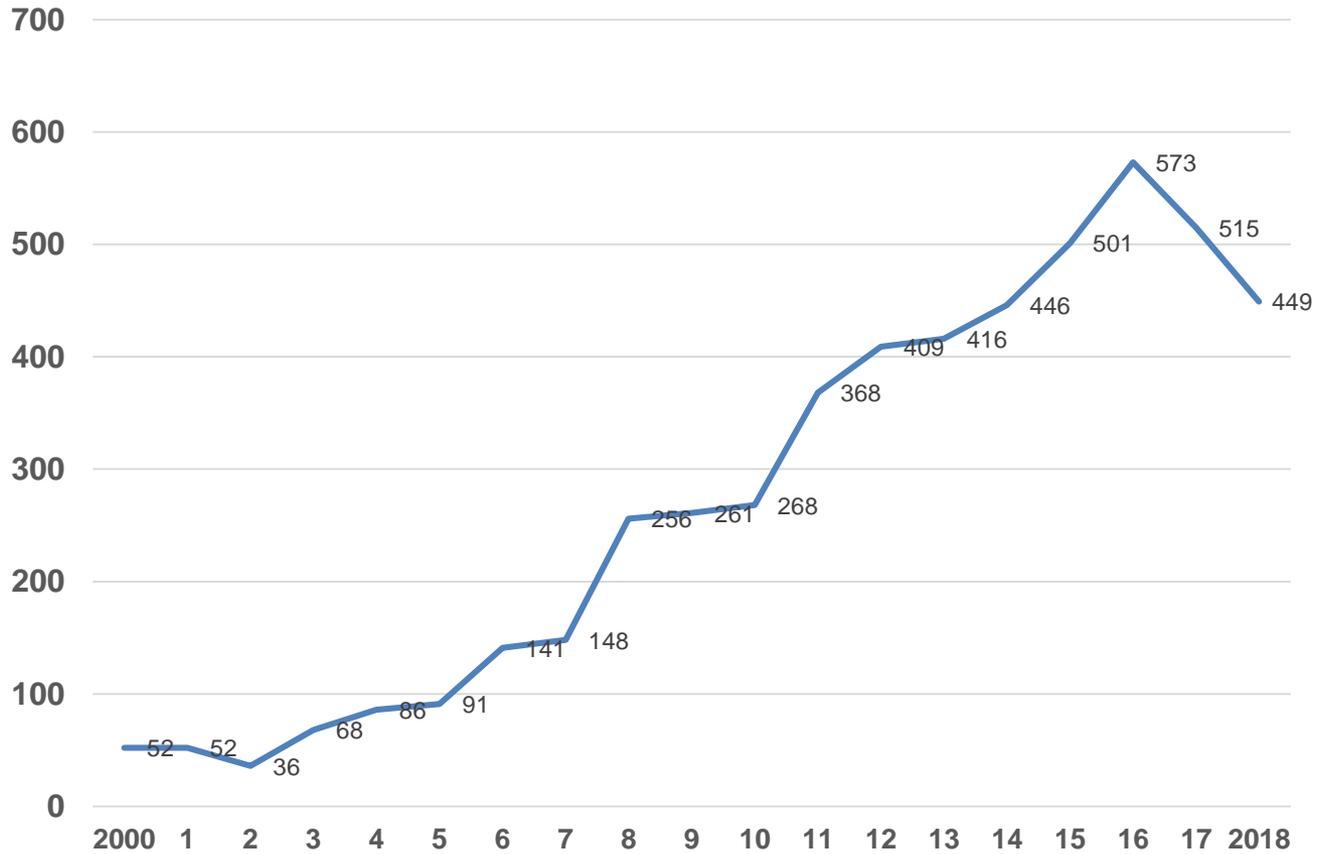


THE TRANSPLANT SURGEON'S PERSPECTIVE

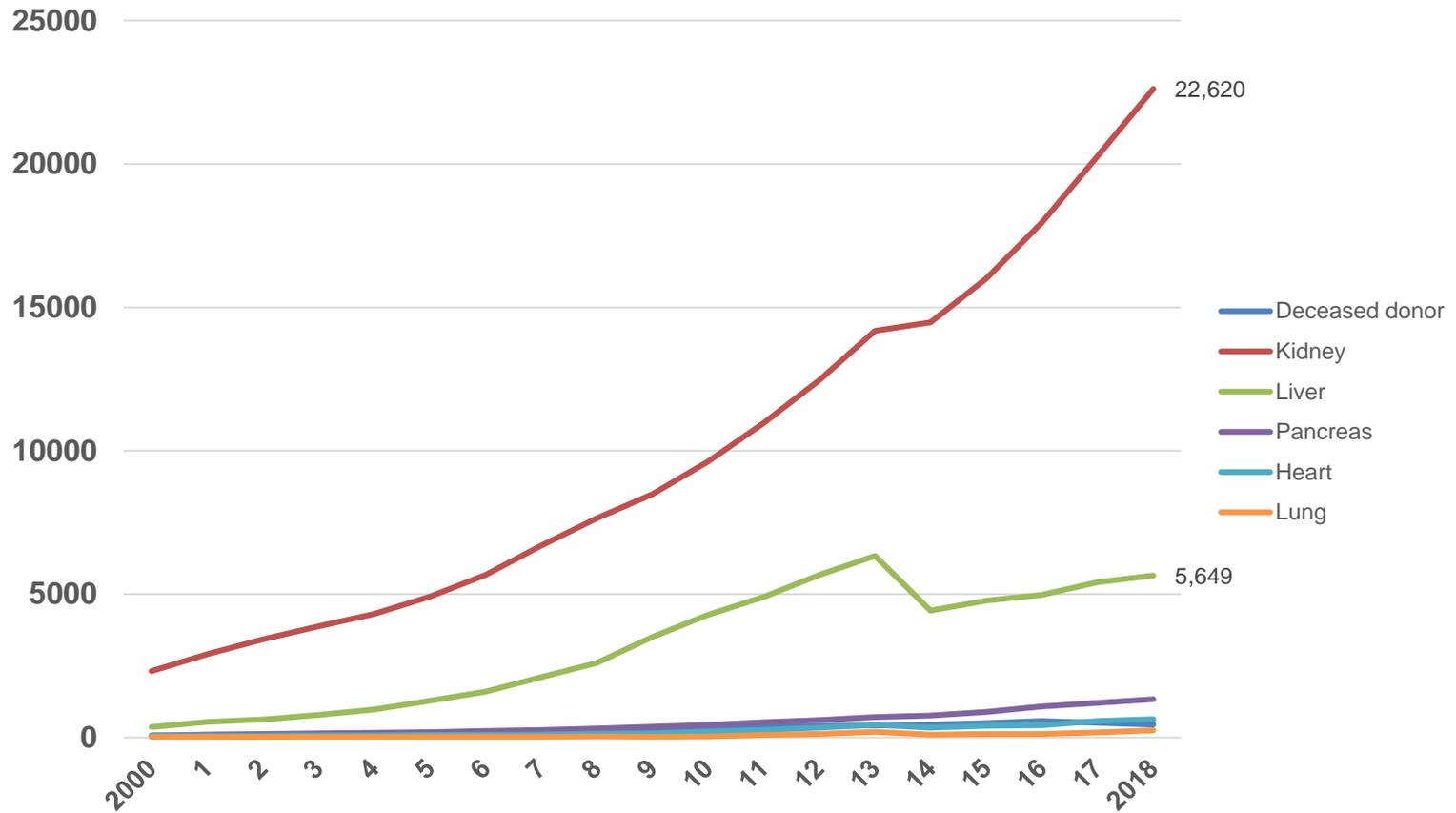
CHANG-KWON OH, MD

**DEPARTMENT OF SURGERY
AJOU UNIVERSITY
SCHOOL OF MEDICINE**

회사기증자수



장기별 대기자수



TERMINOLOGY

- **Potential donor:**
 - **suspected to fulfill brain death criteria**
- **Eligible donor:**
 - **declared dead**
- **Actual donor:**
 - **operative incision made**
- **Utilized donor:**
 - **at least one solid organ was transplanted**

PATHWAY FOR ORGAN DONOR

- **Collaborative practice**
- **Referral**
- **Declaration of brain death and consent**
- **Donor evaluation**
- **Donor management**
- **Recovery phase**

CARE OF THE POTENTIAL ORGAN DONOR

**THE FOCUS OF
TREATMENT
DIRECTED TOWARD
ORGAN PERFUSION
AND IMPROVED
QUALITY OF GRAFTS.**



THE BIGGEST DIFFERENCES

- **Patient with severe brain damage**
- **Goal shifting**
- **Organ allocation**
- **Maintaining after death**

SEVERE BRAIN DAMAGE

N ENGL J MED 2004;351:2730-9

- progressive rostral-to-caudal ischemia
- brain ischemia provokes a **sympathetic surge**
- spinal cord ischemia results in **deactivation** of the sympathetic nervous system

GOAL SHIFTING

From neuro-protection to optimizing organs

achieve normo-volemia

maintain blood pressure

optimize cardiac output

- achieve gradients of **perfusion pressure and blood flow**
- promote organ function with **reduced use of vasoactive-drug** support

ORGAN ALLOCATION

For the recipients with end-stage organ failure.

- Life Saving Organs
- Life Enhancing Organs

Suitable Organ depends on
the Organ Function of the donors.

Acceptable Organ depends on
the Clinical Situation of the recipients.

MARGINAL DONOR

- 가. 심장이 정지된 기증자(**Non-heart beating donor**)인 경우
- 나. 저혈증성 발작(**Hypotensive attack**)이 3회 이상인 경우
- 다. 장기별 기준

상위 제**3**순위인 자까지 이식대상자가 선정되지 아니하는 경우 뇌사자를 관리하고 있는 뇌사판정대상자관리기관에 이식대상자 선정 우선권을 부여한다.

DONORS WITH ACUTE (REVERSIBLE) ORGAN FAILURE

- **Try to recover the organ function.**
- **Minimize the consequence of the failure.**
- **Evaluate the functional change.**
- **Maximize the organ suitability and acceptability.**

Scarcity of organs

ORGAN FUNCTION EVALUATION

- **Common parameters:**
 - Age
 - Vital signs
 - Past history
 - Circulatory events
 - Systemic illness
 - Co-morbidity
 - etc
- **Organ specific parameters**

MAINTAINING AFTER DEATH

Declaration of brain death

Not the end, but **a new start**



Thank you for your attention.