Abstracts

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THE IMPACT OF AGE ON ACCEPTABLE MEASURED GFR FOR LIVING KIDNEY DONATION

François Gaillard⁹, Marie Courbebaisse², Nassim Kamar⁷, Lionel Rostaing⁶, Martin Flamant¹, Emmanuelle Vidal-Petiot¹, Lionel Couzi⁴, Paolo Malvezzi⁶, Bruno Moulin¹², Philippe Gatault⁸, Laurence Dubourg¹¹, Cyril Garrouste⁵, Christophe Legendre³, Pierre Delanaye¹³, Christophe Mariat¹⁰

¹Physiology, AP-HP, Bichat Hospital and Paris Diderot University, Sorbonne Paris Cité, Paris, France, ²Physiology, AP-HP, Georges Pompidou European Hospital and INSERM, Unit 1151, Paris, France, ³Nephrology and Renal Transplantation, AP-HP, Necker University Hospital, Paris, France, ⁴ Nephrology, Transplantation, Dialysis and Apheresis, Bordeaux University Hospital and Immuno ConcEpT, CNRS UMR 5164, Bordeaux University, Bordeaux, France, ⁵Nephrology, CHU Clermont-Ferrand, Clermont-Ferrand, France, ⁶Nephrology and Transplantation, CHU Grenoble, Grenoble, France, ⁷Nephrology and Organ Transplantation, CHU Rangueil and INSERM U1043, IFR"*BMT, Université Paul Sabatier, Toulouse, France, ⁸Nephrology, Dialysis and Renal Transplantation, CHU Tours and François Rabelais University, EA4245 Cellules Dendritiques, Immunomodulation et Greffes, Tours, France, ⁹Renal Transplantation, Hôpital Necker, Paris, France, ¹⁰Nephrology, Dialysis and Renal Transplantation, Hôpital Nord, CHU de Saint-Etienne, Jean Monnet University, COMUE Université de Lyon, Saint-Etienne, France, ¹Exploration Fonctionnelle Rénale et Métabolique, Hospices Civils de Lyon and 16. UMR 5305 CNRS/Université Claude-Bernard, Biologie Tissulaire et Ingénierie Thérapeutique, Lyon, France, ¹²Nephrology and Transplantation, Nouvel Hôpital Civil -Hôpitaux Universitaires de Strasbourg, Strasbourg, France and ¹³Department of Nephrology, Dialysis, Transplantation, University of Liège (CHU ULg), Liege, Belgium

INTRODUCTION AND AIMS: Recommendations on the GFR threshold to accept living kidney donation are not consensual. The recent K/DIGO guidelines suggested to reset the conventional cutoff value of 80 to 90mL/min/1.73m². While GFR physiologically declines with age, it is unclear whether and how age should be taken into account for selecting acceptable pre-donation GFR.

METHODS: In this multicentric retrospective study conducted in 2007 kidney donors in France, we evaluated the impact of age using two thresholds (80 and 90mL/min/ 1.73m²). Three groups of donors were defined according to baseline GFR: <80, 80-89.9, ≥90mL/min/1.73m².

RESULTS: Thirty-two percent of donors were selected despite a GFR below 90 mL/ min/1.73m². Donors with the lowest GFR were significantly older (60 ± 9 years vs. 47 ±11 years, p<0.0001). The lifetime-standardized renal reserve, defined as the pre-donation mGFR value divided by the expected number of remaining years of life, was similar across all baseline GFR groups. In a subgroup of 132 donors with repeated mGFR 5 years after donation, the magnitude of GFR decrease was similar in all groups (-34.3%, -33.9%, and-34.9% respectively).

CONCLUSIONS: In conclusion, decision to accept individuals with GFR lower than 90mL/min/1.73m² for kidney donation is highly dependent on the age of the candidate. Our data suggest that a threshold value lower than 90 mL/min/1.73m² is reasonable for older donors and more generally, that considering age-calibrated GFR may improve efficiency of the selection process.

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