

# Lifestyle and Dietary Habits in Renal Transplanted Patients

Vincenzo Bellizzi<sup>1</sup>, Adamasco Cupisti<sup>2</sup>, Alessandro Capitanini<sup>3</sup>, Samar Abd ElHafeez<sup>4</sup>, Andrea Camocardi<sup>5</sup>, Patrizia Calella<sup>1</sup>, Claudia D'Alessandro<sup>2</sup>, Domenico Giannese<sup>2</sup>, Serena Torraca<sup>1</sup>, Maria Francesca Egidi<sup>2</sup>, Giovanni Tripepi<sup>6</sup>, Giuseppe Conte<sup>5</sup>

Division of Nephrology, University Hospital "San Giovanni di Dio e Ruggi d' Aragona"<sup>1</sup>, Salerno, Italy; Dept. Clinical and Experimental Medicine, University of Pisa<sup>2</sup>, Pisa, Italy; Nephrology Unit Hospital Pescia<sup>3</sup>, Italy; Epidemiology Dept., High Institute of Public Health, Alexandria University<sup>4</sup>, Alexandria, Egypt; Nephrology division Second University of Naples<sup>5</sup>, Naples, Italy; CNR - IFC/IBIM Clinical Epidemiology and Physiopathology of Renal Disease and Hypertension<sup>6</sup>, Reggio Calabria, Italy

Background	Aim	Subjects & Groups	Measurements
<ul style="list-style-type: none"> <li>Renal Transplantation (RTx) is hampered by high cardiovascular (CV) risk</li> <li>Lifestyle and eating habits may represent potent modifier of RTx patient</li> <li>No reliable data exist on lifestyle, physical activity and nutrient intake in RTx</li> </ul>	<p>To evaluate the comprehensive functional and nutritional profile in stable Renal Transplanted Patients</p>	<ul style="list-style-type: none"> <li>Matched, case-control, study</li> <li>Consecutive, adult patients with stable renal transplant (from at least 6 months) in absence of any acute disease (from at least 3 months) [RTx group, 198]</li> <li>Controls (cohabitants without renal disease) with the same socio-economic and cultural status [CON group, 136]</li> </ul>	<p><b>A.</b> Continuous measurements of Physical Activity (PA) (duration and intensity) along three consecutive days by mean of SenseWear Armband® (BodyMedia, Pittsburgh, USA) a clinically-validated accelerometer device collecting in a free-living context:</p> <ul style="list-style-type: none"> <li>daily number of steps</li> <li>daily physical activity duration</li> <li>physical activity intensity</li> </ul> <p><b>B. Smoking</b></p> <p><b>C. Nutritional status &amp; Body composition (anthropometry, bioimpedance analysis, dynamometry)</b></p> <p><b>D. Nutrients intake (dietary diaries, interviews, 24-h urine)</b></p>

Subjects Characteristics	Social Status	Employment	Weight & Smoke	Met. Syndrome	
RTx	CON	p	RTx	CON	p
Subjects, n	198	136			
Gender, M%	59	49	0.07		
Age, years	50±12	50±13	0.89		
Diabetics, %	11	5	0.09		
Previous CV events, %	11	---	---		
Charlson Index	2.8±2.0	---	---		
eGFR, ml/min <sup>1.73m2</sup>	52 [38-68]	---	---		
Dialysis-age, years	34 [22-66]	---	---		
RTx-age, years	67 [20-139]	---	---		
Barthel, n	99.6±3.1	99.7±0.4	0.11		
Karnowsky, n	96.3±6.8	99.3±3.1	<0.001		

