Does **s**x influence rear-infrared spectroscopyderived indicators of vascular reactivity and the response of acute dietary capsaicin

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Abstract

Introduction: Endothelial dysfunction precedes cardiovascular disease development, is associated with deficiencies in nitric oxide (NO), and may be sepecific. Although, it is unknown if Capsaicin, an agonist for transient receptor potential vanilloid chafin (TRPV₁), alters endothelial function in a sextependent manner, as assessed via-infrared spectroscopy (NIRS)-derived measures of tissue oxygen saturation 2/State of reperfusion. Purpose: Therefore, this study sought to determine there wassex specificity in the effect of capsaicin on NIRS-derived vascular responsiveness statement of a specific in the forearm and thigh. Methods: In a blinded crossover desitine reperfusion rates of 45 young males (M: n=25) and females (F: \$\frac{1}{2}0\$) were assessed after acute ingestion of placebo or capsaicin. Urine samples were assayed for nitrate/nitrite (NOx) concentrations and antioxidant capacity. Results: In the placebo condition, females had greater reperfusion rates in both the foreal on 4/4 on 24 vs F: 0.98 on 0.46 %/sec; p=0.002, d=0.50 and quadricep (M: 0.86 on 0.86 on 0.31 vs. 1.17 on 0.43 on 0.86 on 0.85 on 0.85 on 0.86 on