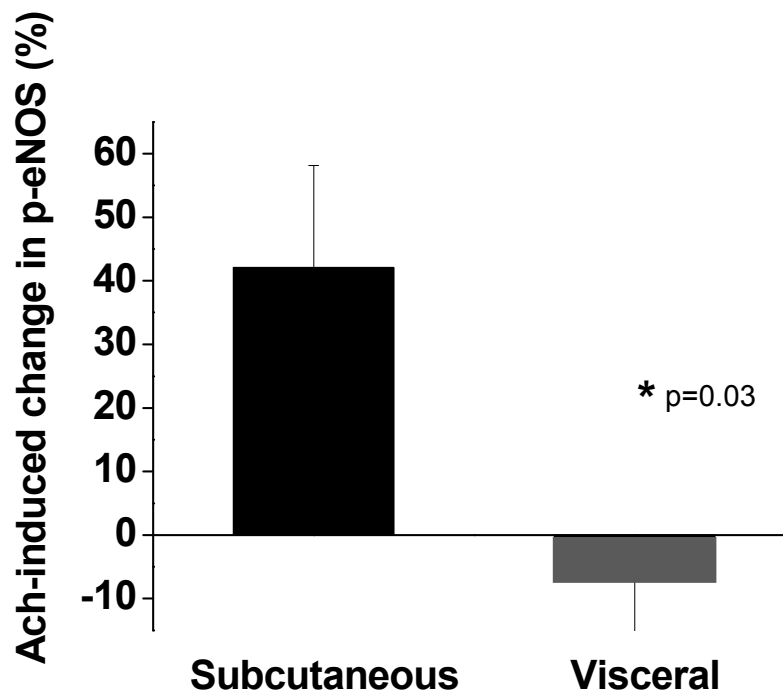


Cyclooxygenase inhibition improves endothelial vasomotor dysfunction of visceral adipose arterioles in human obesity

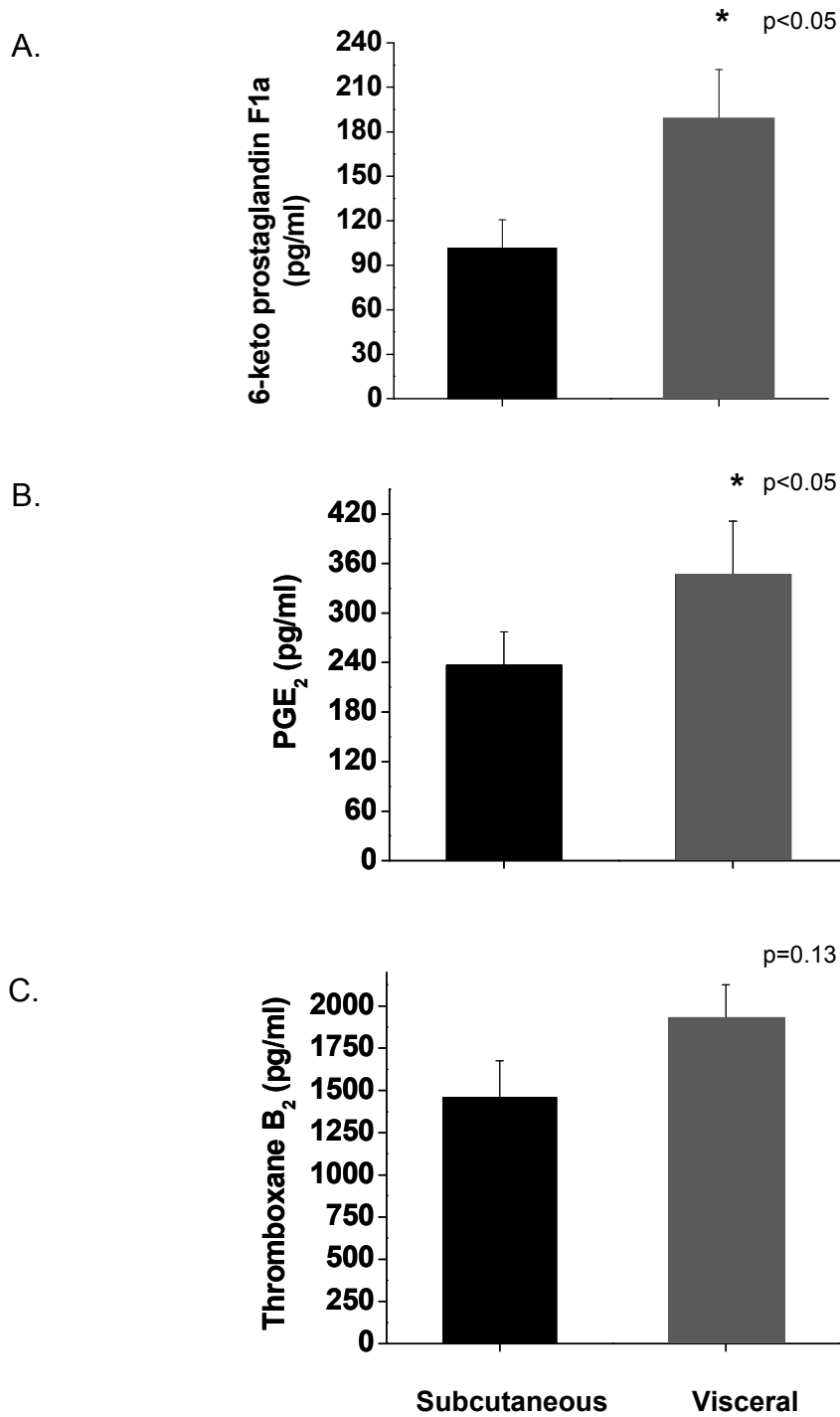
Melissa G. Farb PhD, Stephanie Tiwari, Shakun Karki PhD, Doan TM Ngo PhD, Brian Carmine MD, Donald T. Hess MD, Maria A. Zuriaga PhD, Kenneth Walsh PhD, Jessica L. Fetterman PhD, Naomi M. Hamburg MD, MS, Joseph A. Vita MD, Caroline M. Apovian MD and Noyan Gokce MD

Supplemental Materials

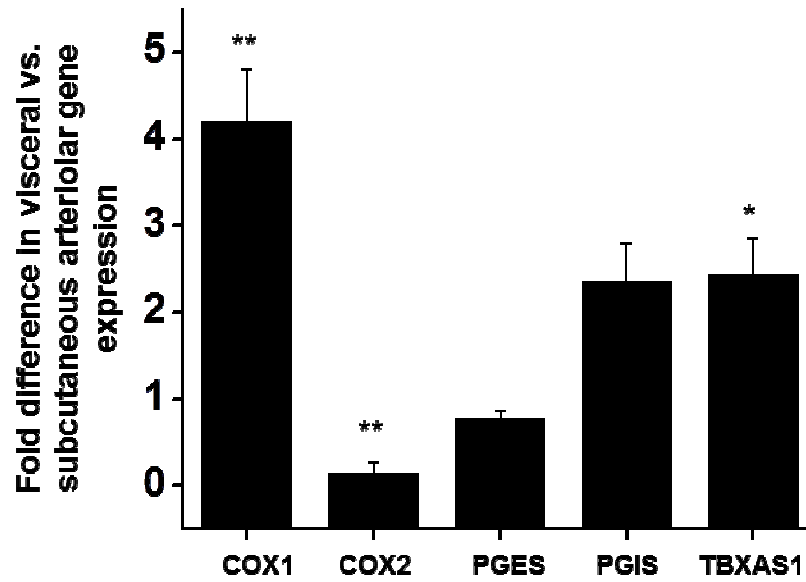
Supplemental figure I
Supplemental figure II
Supplemental figure III



Supplemental figure I: Ach-induced phosphorylation of eNOS at serine 1177 is impaired in endothelial cells isolated from visceral compared to subcutaneous depots. * $p < 0.05$, $n = 7$.



Supplemental figure II: 6-keto F alpha (A) production (metabolite of PGI₂) and PGE₂ (B) were significantly higher in the supernatant of cultured visceral compared to subcutaneous fat tissue (*p<0.05), and TBX₂ (C) also trended higher in visceral fat.



Supplemental figure III: Expression of cyclooxygenases and synthases relevant to prostanoid production were upregulated in visceral arterioles compared to subcutaneous vessels (n=7).

COX1=Cyclooxygenase-1, COX2=Cyclooxygenase-2, PGES=Prostaglandin E synthase, PGIS=Prostaglandin I synthase, TBXAS=Thromboxane synthase. **p<0.01 and *p<0.05.