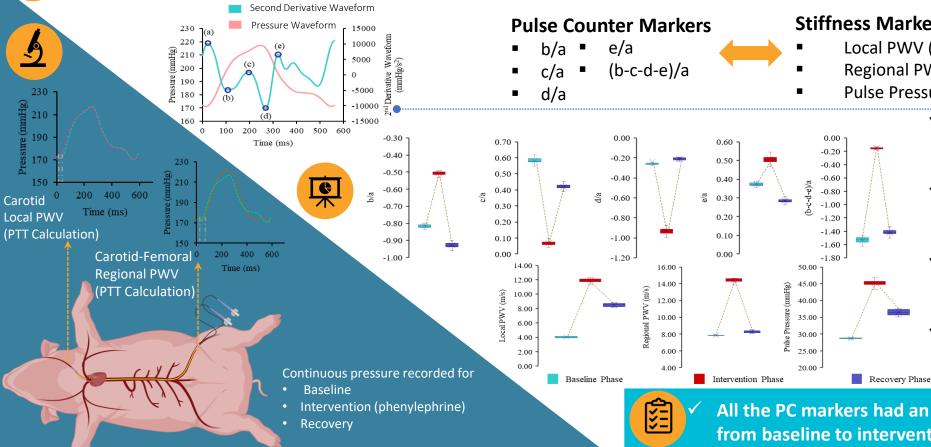
Variation in Pulse Contour Markers on an Anesthetized Porcine During **Pressure Perturbation: Association with Local and Regional Stiffness**



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To understand association between pulse counter markers and stiffness markers during pharmacologically induced blood pressure and heart rate perturbation



Swine under anaesthesia with pressure catheters at carotid and femoral arteries

Stiffness Markers

- Local PWV (Carotid)
- Regional PWV (Carotid-Femoral)
- Pulse Pressure (Carotid & Femoral)
 - ✓ With regional PWV, a statistically significant and strong negative correlation (r > -0.9, p < 0.001) was observed for c/a and d/a
 - ✓ Statistically significant and moderate correlation (r >) 0.63, p < 0.001) was observed between b/a, c/a and local PWV and pulse pressure
 - ✓ d/a, e/a and (b-c-de)/a showed statistically insignificant p-value (p > 0.05) with local PWV and pulse pressure
 - ✓ All the markers had a **change > 25%** from baseline phase to intervention phase and a change > 20% from intervention to the recovery phase
- All the PC markers had an observational change in the mean values from baseline to intervention and back to recovery
- Regional and Local Stiffness correlates differently with PC markers



