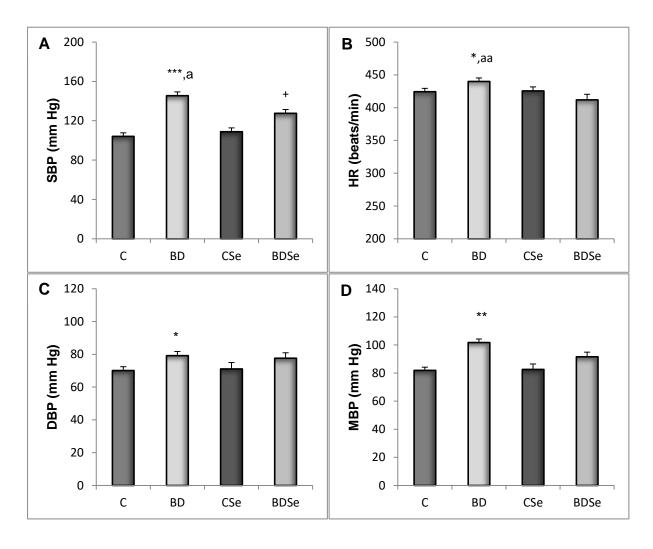
This is an Accepted Manuscript of an article published by Taylor & Francis in Am J Drug Alcohol Abuse on 28/09/2021 available at: https://doi.org/10.1080/00952990.2021.1973485.

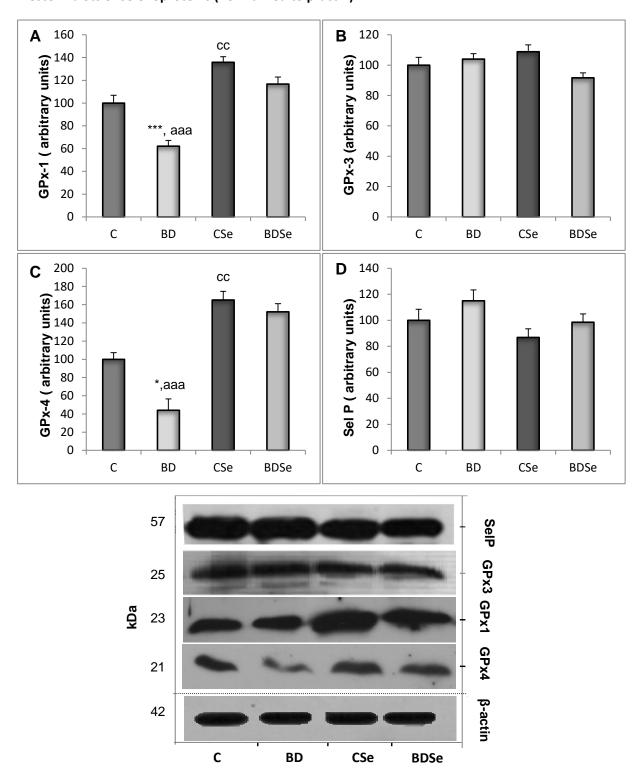
Figure 1: Systolic Blood Pressure (SBP: A), Heart Rate activity (HR: B), Diastolic blood Pressure (DBP: C) and Mean Blood Pressure (MBP: D).



The results are expressed as mean \pm SEM and analysed by a multifactorial analysis of variance (one-way ANOVA) followed by the Tukey's test. The number of animals in each group is 8. Groups: C: control group, BD: binge drinking group, CSe: control selenium supplemented group, and BDSe: binge drinking selenium supplemented group. Statistic difference between groups was expressed as: BD vs C: *p<0.05, **p<0.01, ***p<0.001; BD vs BDSe: ap<0.05, ap<0.01; BDSe vs CSe: p<0.05.

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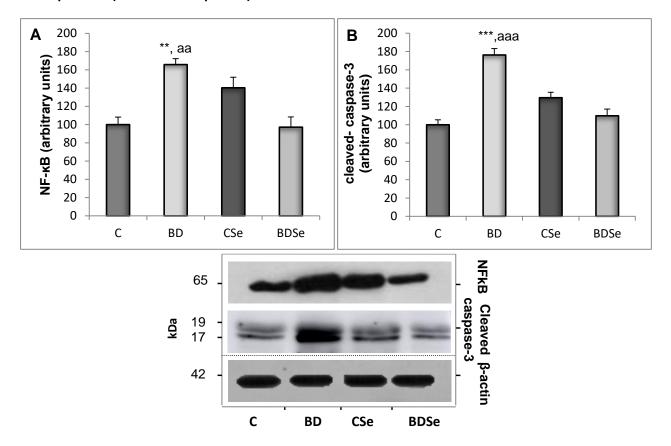
Figure 2: Expression of heart selenoproteins (GPx1: A; GPx3: B; GPx-4: C;SelP: D). Representative western blots of selenoproteins (normalized to β -actin).



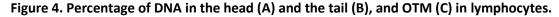
The results are expressed as mean ± SEM and analysed by a multifactorial analysis of variance (one-way ANOVA) followed by the Tukey's test. The number of animals in each group is 8. Groups: C: control group, BD:

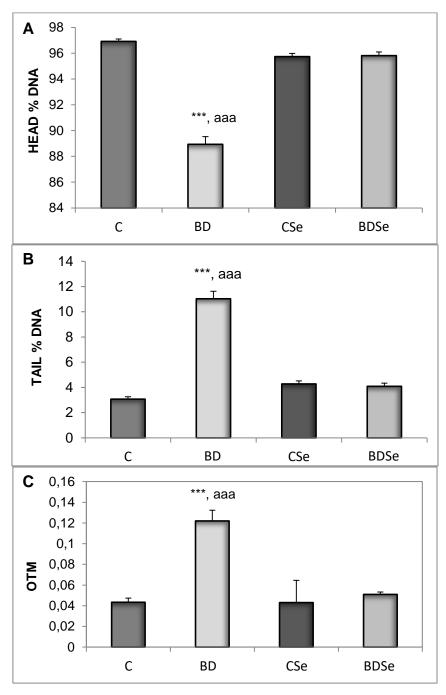
binge drinking group, CSe: control selenium supplemented group, and BDSe: binge drinking selenium supplemented group. Statistic difference between groups was expressed as: BD vs C: *p<0.05, ***p<0.001; BD vs BDSe: aaa p<0.001.

Figure 3. Expression of heart NFkBp65 and cleaved-caspase-3. Representative western blots of these proteins (normalized to β -actin).



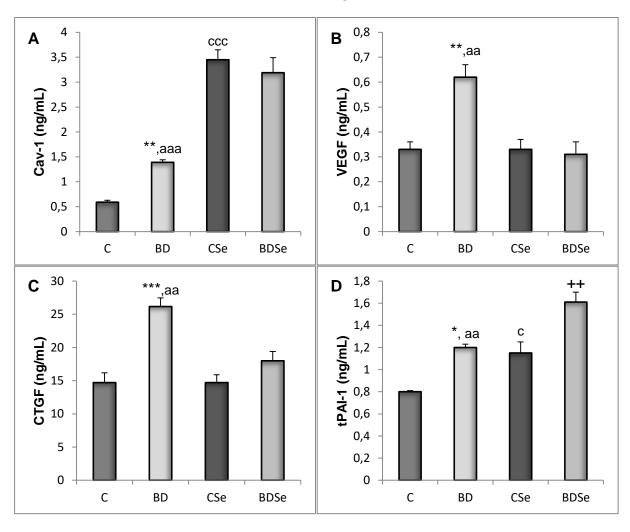
The results are expressed as mean ± SEM and analysed by a multifactorial analysis of variance (one-way ANOVA) followed by the Tukey's test. The number of animals in each group is 8. Groups: C: control group, BD: binge drinking group, CSe: control selenium supplemented group, and BDSe: binge drinking selenium supplemented group. Statistic difference between groups was expressed as: BD vs C: **p<0.01, ***p<0.001; BD vs BDSe: aap<0.01, aaa p<0.001.





The results are expressed as mean \pm SEM and analysed by a multifactorial analysis of variance (one-way ANOVA) followed by the Tukey's test. The number of animals in each group is 8. OTM: Olive Tail Moment [OTM= (tail mean-head mean) \times tail percentage of DNA/100]. Groups: C: control group, BD: binge drinking group, CSe: control selenium supplemented group, and BDSe: binge drinking selenium supplemented group. Statistic difference between groups was expressed as: BD vs C: ***p<0.001; BD vs BDSe: aaa p<0.001.

Figure 5. Vascular markers: Caveoline 1 (Cav-1) (A), Vascular Endothelial Growth Factor (VEGF) (B), Connective Tissue Growth Factor (CTGF) (C), Plasminogen Activator Inhibitor-1 (tPAI-1) (D).



The results are expressed as mean ± SEM and analysed by a multifactorial analysis of variance (one-way ANOVA) followed by the Tukey's test. The number of animals in each group is 8. Groups: C: control group, BD: binge drinking group, CSe: control selenium supplemented group, and BDSe: binge drinking selenium supplemented group. Statistic difference between groups was expressed as: BD vs C: *p<0.05, **p<0.01, ***p<0.001; BD vs BDSe: aa p<0.01; C vs CSe: cp<0.05, ccc p<0.001; BDSe vs CSe: cp<0.01.

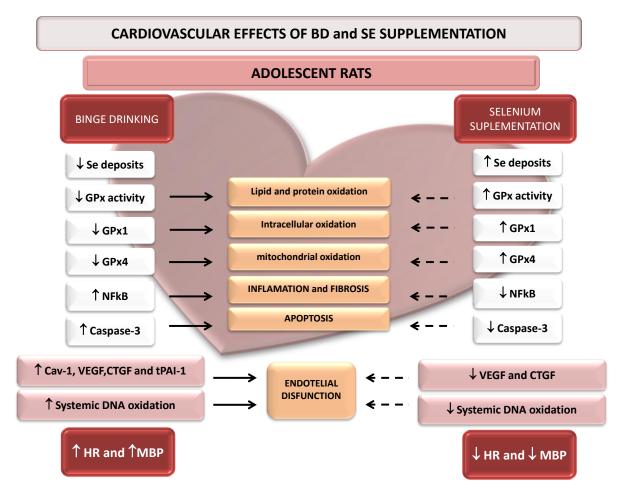


Figure 6. Cardiovascular effects of Binge Drinking and selenium supplementation. Glutathione Peroxidase (GPx), Nuclear Factor kappa-light-chain-enhancer of activated B cells (NFkB), Caveolin 1 (Cav-1), Vascular Endothelial Growth Factor (VEGF), Connective Tissue Growth Factor (CTGF), Plasminogen Activator Inhibitor-1 (tPAI-1), Heart Rate (HR), Mean Blood Pressure (MBP).