



## UNIVARIATE WEIBULL DISTRIBUTIONS FOR CARDIOVASCULAR ACTIVATION IN HEALTHY MEN

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### ABSTRACT

*In this paper we have used Univariate weibull distribution and are applied in plasma glucose, systolic blood pressure, plasma renin activity, epinephrine to find survival function and joint survival functions. Measurement of hormone concentrations revealed an enhanced release of adrenocorticotrophic hormone and growth hormone and growth hormone in response to stress of hypoglycaemia in subject treated with both antidepressants used. A similar augmentation was observed in systolic blood pressure. Stress-induced prolactin release was potentiated by citalopram only. Plasma renin activity, epinephrine, norepinephrine and cortisol levels failed to be modified by antidepressants. The Present study demonstrates that (i) repeated antidepressant treatment in healthy men does not inhibit, but enhances, neuroendocrine activation during stress and (ii) such effects were observed after treatment with antidepressants having opposing actions on brain serotonin, indicating involvement of nonserotonergic mechanisms.*

**Keywords:** *antidepressants, blood Pressure, hormones, MSW, MO-MSW, MSP, MO-MSP distributions.*