Effect of neurosteroid levels, genetic linkages, and pre-deployment virtualreality resilience training on PTSD severity Kat Fama

Post-traumatic Stress Disorder (PTSD) is more prevalent among soldiers than civilians, with 11-20% of soldiers than civilians, with 11-20% of soldiers than civilians (US Department of Veterans Affairs, 2018). Current military programs focus on treating PTSD after combat deployment instead of preventing it. Biological factors, such as blood plasma levels of neurosteroids allopregnanolone and pregnanolone (together known as ALLO) are associated with decreased vulnerability to PTSD. Conversely, the presence of SNP rs717947 indicate an increased vulnerability to PTSD. Psychological interventions such as virtual-reality based resilience training (VRRT) has been shown to effectively mitigate PTSD symptom severity. The aim of this project is to examine these biological factors and psychological interventions to identify effective PTSD prevention methods.





