

# **Possible Therapeutic Role of N-acetylcysteine in Cuprizone-induced Demyelination of the Brain of Male Albino Rat: Histological and Immune Histochemical Study.**

## ***Thesis***

*Submitted in Partial Fulfillment of the requirements  
of MD Degree in Anatomy & Embryology*

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Multiple sclerosis is demyelinating autoimmune disease. Fifty adult male albino rats were grouped: **G1**-Control (normal and sham), **GII**-CPZ (**II-A** 4Ws); (**II-B** 8Ws), **GIII**-CPZ and NAC: (**III-A**- 4Ws); (**III-B**- 8Ws), **GIV** (CPZ followed by NAC): (**IV-A**- 4Ws CPZ followed by 4Ws NAC) and (**IV-B**- 8Ws CPZ followed by 8Ws NAC); **GV** (Remyelination): (**V-A** 4Ws CPZ followed by 4Ws no medication) and (**V-A** 8Ws CPZ followed by 8Ws no medication) . **GII** showed CC demyelination, which were reduced in **GIII** more than in **GIV** demonstrating duration dependency.

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