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Carboxylic Acid & Alzheimer's Disease

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Opinion

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Abstract

In this paper we consider the possible connection between carboxylic acid and Alzheimer's disease. There appreas to be a possible link whereas the neurotransmitter acetylcholine depleted in Alzheimer's patients may be mimicked by carboxylic acid.

Keywords: Carboxylic Acid; Alzheimer's; Acetylcholine

Introduction

In a previous paper, this author suggested that carboxylic acid may be a cause of Dementia. In fact, we see that functional group carboxylic acid has the same structure as the neurotransmitter Acetylcholine (Figure 1).

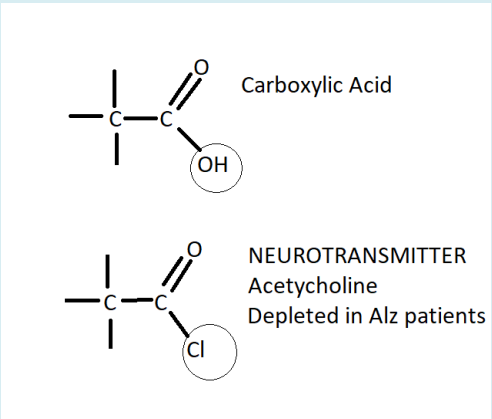

Figure 1: Functional group for carboxylic acid and acetylcholine.

Acetylcholine has been found to be deficient in Alzheimer's patients and is prominent in memory and learning. I suggest that carboxylic acid is the culprit and a possible cause of Alzheimer's disease. Perhaps the carboxylic acid overload induces the neurotransmitter to be under produced leading to Alzheimer's. Perhaps carboxylic acid mimics acetylcholine causing an imbalance of the necessary neurotransmitter. There may be more than one cause. Indeed, I have suggested in other papers that the herpes simplex virus may be a cause of dementia [1-3].

Conclusion

Studies should be undertaken to see if the connection between carboxylic acid and Alzheimer 's disease is a valid one.

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