



More on Carboxylic Acid: One Possible Cause of Alzheimer's

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Opinion

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Abstract

In this paper, we consider the possible pathway from cresol to carbon monoxide- a compound that is known to kill brain cells. Carbon monoxide and cresol may be the cause of dementia and Alzheimer's

Keywords: Carboxylic Acid; Dementia; Alzheimer's; Carbon Monoxide

Introduction

In a previous paper, I showed how Cresol may be the culprit in causing Dementia. Second, I postulated that carboxylic acid from oil fired power plants may be a culprit as well, but nothing was conclusive, merely suggestive. Third, the idea that cancer and dementia are mutually exclusive diseases. In this paper, I consider the fundamental chemistry that shows how the equations may run from Cresol; to Carboxylic Acid; to Acetylene; to Carbon Monoxide. Carbon Monoxide is known to kills brain cells, thus dementia and Alzheimer's. We begin then with the chemical equations of the functional groups.

Chlorine is the important agent in Cresol. Many workers were exposed to Cresol on docklands, railyards. Smoked-meat shops, and military uses. Note in Figure 1, that water has a dipolar charge that draws the chlorine away from the acid. In its place is the OH- Hydroxide Ion. Note that the Hydroxide Ion could form hydrogen peroxide which is important in the cause of cancer. As the chlorine is pulled off of the Acid Chloride, it is replaced with hydroxide. This then gives us carboxylic acid (Figure 2) [1,2].

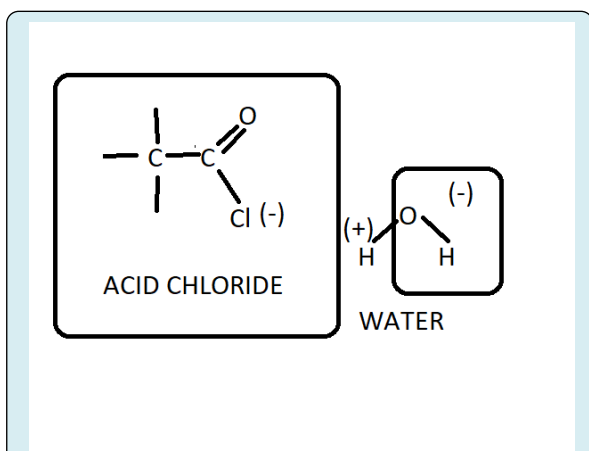


Figure 1: Functional Group Acid Chloride.

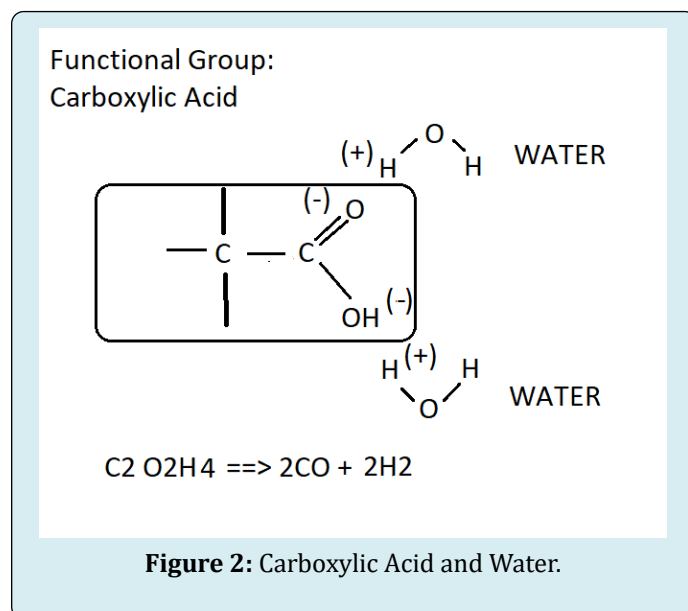


Figure 2: Carboxylic Acid and Water.

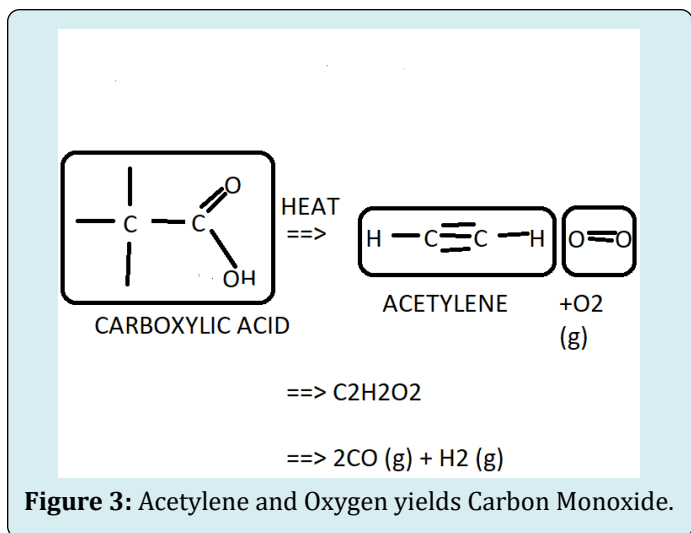


Figure 3 illustrates how the Carboxylic Acid turns to Acetylene and Oxygen. The combustion of acetylene yields Carbon Monoxide which is known to kill human brain cells; thus leading to Dementia [3-5].

Conclusion

This could well be a pathway for dementia in some cases.

Cresol was widely used and so are oil fired power plants and oil refineries up wind of residential neighbourhoods [6]. Suggest that neighbourhoods such as East Saint John, NB Canada be studied to determine if there is indeed a higher than normal incidence of Alzheimer's.

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