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Development of latent blood stains through luminol on different surfaces after subjecting household cleaning reagents

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In most of the violent crimes, perpetrators try to stage the crime scenes. Usually in indoor crimes common household items like tap water and detergents are commonly used to clean blood stains. The present study is based on the development of latent blood stains subjected to reagents like normal water, hot water, detergent, bleach and ethanol using luminol solution on surfaces like cloth, paper, wooden plank and tiles (porous and non-porous) after leftover of 15 days. The objective of the study was to understand whether the latent blood stains can be developed after cleaning agents application on different surfaces (porous and non-porous) and to understand if they can be developed after fifteen days, post subjecting to cleaning agents. The luminol solution was prepared using standard procedure and was used to develop the blood stains. The analysis is done based upon the color, intensity and visibility of the stain after luminol reaction. The reactions was positive, concluding that the latent blood stain can be developed over a period of time using luminol after treating the subjected surfaces with reagents mentioned. This study will be useful for crime scene investigators for instant identification of latent blood stains and to identify faded spots due to treatment of cleaning agents.

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