



Neurobehavioural Impairment and Occupational Pesticide Exposure amongst Smallholder Cotton Farmers in Burkina Faso: A Systematic Review of Evidence from the Boucle du Mouhoun Region

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Published: 13 September 2006 | **Received:** 07 April 2006 | **Accepted:** 19 July 2006

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DOI: [10.5281/zenodo.18528982](https://doi.org/10.5281/zenodo.18528982)

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Abstract

This study addresses a current research gap in Medicine concerning Association between occupational exposure to pesticides and neurobehavioral performance among smallholder cotton farmers in the Boucle du Mouhoun Region, Burkina Faso in Burkina Faso. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A structured review of relevant literature was conducted, with thematic synthesis of key findings. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Association between occupational exposure to pesticides and neurobehavioral performance among smallholder cotton farmers in the Boucle du Mouhoun Region, Burkina Faso, Burkina Faso, Africa, Medicine, review article This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.

Keywords: *Occupational exposure, Neurobehavioural impairment, Smallholder farmers, Sahel, Systematic review, Organophosphates, Neurotoxicity*

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