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Synthesis, reactions, and antiarrhythmic activities of some novel pyrimidines and pyridines fused with thiophene moiety

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Abstract: We report herein the synthesis and antiarrhythmic activities of some newly synthesized heterocyclic theino[2,3-c]pyrimidine and theino[2,3-c]pyridine derivatives fused with thiophene moiety. Initially the acute toxicity of the compounds was assayed via the determination of their LD_{50}. The antiarrhythmic activities for the compounds were determined and all the tested compounds were found more potent than Procaine amide\textregistered and Lidocaine\textregistered as positive antiarrhythmic controls.

Key Words: Pyrimidine, pyrimidinethione, thiazolopyrimidine, antiarrhythmic activity.

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