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# Synthesis and evaluation of some newerthiazolidinonyl substituted quinazolinones as potent anticonvulsant agents

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**Abstract :** A new series of 3-(Aminoacetylthiosemicarbazido)-2-methyl mono substituted quinazolin-4(3H)-ones(3-4),3-(Aminoacetyl thiosemicarbazido substituted arylidene)-2-methyl monosubstituted-quinazolin-4(3H)-ones (5-14) and 3-[3'-( Amino acetyl thiosemicarbazido)-4'-oxo-2'-(substitutedaryl)-1'-thiazolidinonyl]-2-methyl mono substitute dquinazolinones (15-24) were synthesised and evaluated for anticonvulsant activity. All these compounds were screened in vivo, for their anticonvulsant activity and acute toxicity. Compound **22**,3-[3'-(Amino acetyl thiosemicarbazido)-4'-oxo-2'-(3-methoxy-4hydroxy arylidene)-1'-thiazolidinonyl]-2-methyl-6-bromoquinazolinones, was found to be most potent compound of this series, more potent (exhibiting 90%protection) than standard drug phenytoin sodium (having 80% protection). The homogeneity of all the compounds have been established by elemental analysis, IR and <sup>1</sup>H-NMR spectroscopy.

**Keywords :** Thiazolidinones, quinazolinones, anticonvulsant activity, acute toxicity.

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