## SIIORI COMMUNICATION，

## ACOTE WOXICITY STUDIES OF RAW MUCUNA UTIISEXARACTS ISING； BROIIIR CIIICKS

A．II．AEINMUTIMH，A．USMAN \＆U．Y．ANELE



## ABSTRACI






 tovicity for all the doses but no moralily．


## INTIROIOUCTION


 and comsert imto ammal protem There evas an mense competiton for the analable protemonse gram betucen humans and amimals wilh the ammals bemg the loser（ $\wedge$ kimmumine er．al．リソリ7）．

 a lesser hnown and neglected tropical legume in Nigeria as ammal leced．W．whilis lihe most other legmes









## MAIIMAISANI ML HIOOS．

Slic of sund and cypurnicil．11 buds



 for the stad is shome im lablel

## LVにはル！





 Detcrmanation of concemtation of extract

A clean dry emply beaker was weighed．Onc milhilitic of $M$ ．wilns entract was put mito beaker to
 again Concemation of solute in evaraci．capressed as $0.2 \mathrm{p} / \mathrm{ml}$ or $200(\mathrm{mg} / \mathrm{mil}$

Calculation of tolume cof cevara gisen to cach bird：
 at the projected dosige levels $\mathrm{kg}^{-1}$ body weight were as showns in Table I

Experimemal procedure：
30 broter birds were selected and divided into live promps of 6 b bids eide The at promps were


 UTHIS＇EXTRACT THE bIRDS RECLIVED IN EACII DOSE：．

| Keplicale <br> Brody <br> Weighl |  | Comileo <br> I：Nata｜ <br> Volunic |  |  |  | 1506mingh |  | $50100119 / \mathrm{hb}$ |  | livnal｜ <br> Volume |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bodv <br> Weught | l：whacl <br> Volumic | bods <br> Werght | l：Naicl <br> Volume | Body <br> Weight | 1：Maticl <br> Volumic | Boody Werght |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 87510 | 4101 | 8.1 | 5511 | 11.250 | （1）\％ | 15010 |
| 1 | （1）11） | $0011 \%$ |  |  |  |  |  |  |  | 1375 |
| 2 | 550 | （）\％い口⿺𠃊 | 1511 | 7．875 | Sil） | 11.10 | 5.51 | 12375 | 550 |  |
| 3 | ． 451 | （1）Nug | 5011 | 8.750 | ¢10） | 8.1 | （1）10 | 13.500 | 500 | 12.50 |
|  | S00） | 10 mmg | 5010 | 8.750 | 5511 | 11.11 | S（1） | 11.250 | 1511 | 11.25 |
| 5 | 550 | 明吅发 | 510 | 9025 | 550 | 11.10 | 5511 | 12.375 | 450 | 11.25 |
|  | （1）10） | （1）0m\％ | Siin | 8.7511 | （1）0） | 12.1 | （1）N | り110） | 120 | 10.56 |

## RESULIS AND DISCUSSION






 loung. 19\%()


 cochmelmeme evtract St on broiler and they atmbuted the result to the eflee of dopamine on the centrat nenoms sy sem of the birds.

Furlhermore, physte acid, amother toxic component of the extrach, has been reported to lower bioa aubibility of muncrals and hence indirectly influence energy transformation and metabolism wheh are
 effect of digestive and excretory problem (Szabo and T'ebbill. 2000). Earlier on Moffat (I986) reported that
 stooling and diarrheic droppings. Also Duke (1981) :eported lian feeding of $1 /$. milas resulted in vomiting and darrlacic in pigs. The inceasing diarrheic drofping associated with increasing doses observed may be due to raphed excretion of toxic components like tamin. 3 - mellydopai ete (Jankovic and Caine, 1987). The observed darrhoea and moreasing quantity of diarrhoea as the doses increased were in agreement with the report of Ukachukwn et al (1999) who studied the effect of $1 /$. conchinchinemsis to any deall even at tery high dose of 5000 mg / kg body weight

## CONCLUSION ANI RECOMMENDATION

There was acute toxicity but not fully for all the range of doses administered leading to restlessmess. dimmess. diarrhoca but no mortality. Iloweser. fimther iesearch will be able to determine the dosage at which acute toxicity signs begins between 0mg/kg and $3500 \mathrm{mg} / \mathrm{kg}$ and the lethal dose begres above $5000 \mathrm{mg} / \mathrm{kg}$ doses of the exatact).

## REFERENCES

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Duke. J. A (1981). Handbook of legmes of world ceonomic importance. Plenan press. New York


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 $193-234$

 Manlin Dunil/ (cds). I ondon, pן) 117 -130.

 bean seeds dommal lor Science of food and Apriculane d(1.71-79)



Standard. D.G and $\Lambda .13$, young ( $リ 9(1)$ Itealment of cental Nervous System Degencrative Disorders. In
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