RESORPTION / ABORTIFACIENT AND TERATOGENIC ACTIVITY OF SELECTED INDIGENOUS MEDICINAL PLANTS IN FEMALE ALBINO RATS

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ABSTRACT – Alcoholic extracts of Abrus precatorius (T1) Linn. (dried seeds and inflorescence), Moringa oleifera (T7) Lam. (dried bark), Peganum harmala (T8) Linn. (dried seeds) and Momordica tuberose (T9) (Roxb.) Cogn. (dried roots), petroleum ether extracts of Cedrus deodara (T2) (Roxb), Loud. (dried stem bark), Artabotrys hexapetalus (T3) (Linn. F. Bhandri.) (fresh leaves), Ocimum tenuiflorum (T5) (Linn.) (dried seeds) and Jasminum arborescence (T6) (Roxb.) (fresh flower buds) and extract of Mallotus philippensis (T4) (Muell. Arg.) (dried bark) prepared from edible mustard oil through oil emulsion process (Ayurvedic Tel pak vidhi), were screened for resorption / abortifacient and teratogenic activity at a dose of 250 mg/kg. body weight for 10 days on the test animals. The plants A. precatorius (T1), M. oleifera (T7), P. harmala (T8) and M. philippensis (T4) showed 100, 78, 68 and 30 percent abortifacient activity. Zero percent abortifacient activity was observed in treatments of C. deodara (T2), A. hexapetalus (T3), O. tenuiflorum (T5) and M. tuberosa (T9) although M. oleifera (T7), P. harmala (T8) and M. philippensis (T4) recognized themselves in interstitial position regarding abortifacient and resorption activity. 100 percent abortifacient activity was seen only in one plant product A. precatorius (T1) out of nine selected plants. Although these plants have been listed for their use as an emmenagogue or abortifacient in ethnomedicine and Ayurvedic literature. The plant products like O. tenuiflorum (T5), A. hexapetalus (T3), M. oleifera (T7) C. deodara (T2) and P. harmala (T8) showed resorption capacity. The pregnancy was partially terminated in the case of M. oleifera (T7), A. hexapetalus (T3), P. harmala (T8), C. deodara (T2) and M. philippensis (T4) but the remarkable teratogenic effects were observed in rest of the neonates as well as on fetus. These defects mainly includes reduction anomalies like non-ossification of bones in different regions of neonates body. The details of gross anomalies are categorized as semi-solid brain, non-ossified caudal bone, non-ossified cervical bone, hip joint defect, everted claw and wrist drop. The interpretative clinical chemistry determination and role of calcium remarkably summed as that the hypo-level of calcium is a major creator to organize the anti-fertility or abortifacient or resorption percentage.

Key words : Ethnomedicine, resorption, abortifacient, teratogenic, emmengogue, reduction anomalies, neonates, fetus.