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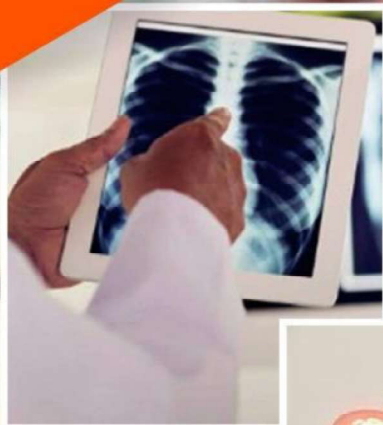
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PROCEEDINGS

**3RD INTERNATIONAL CONFERENCE
OF PHARMACY AND HEALTH SCIENCES 2021
(ICPHS 2021)**

**UNIVERSITI KUALA LUMPUR
ROYAL COLLEGE OF MEDICINE PERAK**



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FACULTY OF PHARMACY AND HEALTH SCIENCES
UNIVERSITI KUALA LUMPUR ROYAL COLLEGE OF MEDICINE PERAK
MALAYSIA

IN COLLABORATION WITH



ADICHUNCHANAGIRI
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India



UNIVERSITAS AIRLANGGA

Faculty of Pharmacy
Indonesia

PROCEEDINGS

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E-POSTER

PRESENTATIONS

EFFECTS OF COORDINATION COMPOUNDS OF GERMANIUM ON THE LEVELS OF NICOTINAMIDE COENZYMES IN THE TISSUES OF EXPERIMENTAL ANIMALS

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Background. Although current data confirm the presence of different types of biological activity in metal complexes with different bioligands, the study of new types of pharmacological activity, their mechanisms of action and pharmacokinetic parameters remain relevant. **Objective.** To study the effects of niacin (NA), niacinamid (NAM), coordination compounds of germanium with niacin (MIGU-1) and niacinamide (MIGU-2) on the *in vivo* synthesis of NAD⁺. **Materials and Methods.** Wistar rats were divided into 5 groups, which were injected with 0.9% NaCl (control); NA; NAM; MIGU-1 and MIGU-2 at a dose of 100 mg/kg. Six hours later, the levels of NAD⁺ in the protein-free extracts of the brain, heart and liver were determined using an enzymatic method and statistically processed according to generally accepted methods. **Results.** The administration of NAM and MIGU-2 increased the levels of NAD⁺ in all studied tissues. NA and NAM affected the levels of NAD⁺ more significantly than the studied coordination compounds of germanium. In the liver, the effects of MIGU-1 were greater than that of MIGU-2, while in the brain, the effects of MIGU-2 were greater than that of MIGU-1. In the heart the levels of NAD⁺ were the same after the administration of both MIGU-1 and MIGU-2. **Conclusion.** The above suggests that MIGU-1 and MIGU-2 are stable compounds, and the mechanism of their action may be different from their use by the tissues in the synthesis of nicotinamide coenzymes. Further comprehensive studies of these compounds are still required.

Keywords: *Coordination compound of germanium, NAD, Niacin*



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