

Publications Template

#	Research Title	Field	Abstrac	t 		Year of Publication Publishing	Publishing Link "URL"
1	Telmisartan and captopril ameliorate pregabalin- induced heart failure in rats	Pharmacology and Toxicology	Pregabalin (PRG) is highly effect epilepsy, neuropathic pain and any potential benefits, PRG administratinduce or exacerbate heart failure (I documented that overactivation of the (RAS) is involved in HF pathophy target of the current study was cardioprotective effect of telmisartatype 1 receptor (AT1R) blocker, com (Cap), an angiotensin converting elameliorating PRG-induced HF morphometric, echocardiographic parameters. Furthermore, to inversiblockade by the two drugs in guar changes in cardiac angiotensin 1-7 (Ang II) levels, in addition to myocal ACE, Mas receptor (MasR) and APRG administration induced morph and histopathological deleterious and elevated cardiac Ang II, ACE and APRG and 1-7, ACE2 and MasR cardiac I with either Tel or Cap reversed Prechocardiographic and histopathological	kiety disorders. Despite tion has been reported HF). It has been previous he renin angiotensin system in the examine the possion (Tel), an angiotensin pared with that of capton in rats by assess and histopathologistigate the role of I reding against PRG-indu Ang 1-7) and angiotensing ardial expression of AC T1R. Results showed to metric, echocardiogral lterations and significations. AT1R levels, while reduced the evels. Concurrent treatmers are transported to the evels. Concurrent treatmers are transported to the evels. Concurrent treatmers are transported to the evels are transported to the evels. Concurrent treatmers are transported to the evels are transported to the evel	e its ed to busly stem The sible in II opril or, in ssing gical RAS uced sin II CE2, that aphic antly uced ment etric,	2019	https://www.sciencedirect.c om/science/article/abs/pii/S 0300483X19302677
		Page 1 of 5 Rev. (1) Date (30-12-2020)	مستوى سريــة الوثيقة: استخدام داخلي Document Security Level = Internal Use	Publications Template		Doc. No. (PUA-IT-P01-F14) sue no.(1) Date (30-12-2020)	



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			revealed prominent protection against PRG-induced HF via downregulation of ACE/Ang II/AT1R and upregulation of ACE2/Ang 1-7/MasR axes. These are the first findings to demonstrate that the potential benefits of Tel and Cap are mediated by counteracting the altered balance between the RAS axes induced by PRG. Hence; Tel and Cap may attenuate PRG-induced HF partially through stimulation of ACE2/Ang 1-7/MasR pathway.		
2	Assessment of pregabalininduced cardiotoxicity in rats: mechanistic role of angiotensin 1-7	Cardiovascular Toxicology	Pregabalin (PRG) possesses great therapeutic benefits in the treatment of epilepsy, neuropathic pain and fibromyalgia. However, clinical data have reported incidence or exacerbation of heart failure following PRG administration. Experimental data exploring cardiac alterations and its underlying mechanisms are quite scarce. The aim of the present work was to investigate the effect of PRG on morphometric, echocardiographic, neurohumoral and histopathological parameters in rats. It was hypothesized that alterations in cardiac renin angiotensin system (RAS) might be involved in PRG-induced cardiotoxicity. To further emphasize the role of RAS in the mechanism of PRG-induced cardiotoxicity, the protective potential of diminazene aceturate (DIZE), an ACE2 activator, was investigated. Results showed 44% decrease in ejection fraction and 7-fold increase in plasma N-terminal pro-brain natriuretic peptide. Histopathological examination also showed prominent vacuolar changes and edema in cardiomyocytes. In addition, PRG significantly increased angiotensin II (Ang II), angiotensin converting enzyme (ACE) and angiotensin II type 1 receptor (AT1R) levels, while decreased angiotensin 1-7 (Ang	2020	https://link.springer.com/article/10.1007/s12012-019-09553-6

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			1-7), angiotensin converting enzyme 2 (ACE2) and Mas receptor (MasR) cardiac levels. DIZE co-administration showed prominent protection against PRG-induced echocardiographic, neurohumoral and histopathological alterations in rats. In addition, downregulation of ACE/Ang II/AT1R and upregulation of ACE2/Ang 1-7/MasR axes were noted in DIZE co-treated rats. These findings showed, for the first time, the detailed cardiac deleterious effects of PRG in rats. The underlying pathophysiological mechanism is probably mediated via altered balance between the RAS axes in favor to the ACE/Ang II/AT1R pathway. Accordingly; ACE2 activators might represent promising therapeutic agents for PRG-induced cardiotoxicity.		
3	Microbial bowel infections-ind uced biochemical and biological abnormalities and their effects on young Egyptian swimmers	Scientific Reports	Swimmers' personal hygiene affects the spread of microbes in pools. The present study aimed to determine the incidence of microbial infections among young Egyptian swimmers and its impact on swimmers' scores. From January 2020 to June 2021, 528 public club swimmers were examined cross-sectionally. Swimmers were divided into two groups according to their star tests and their scores in the competition (group 1 with a high score and group 2 with a low score). Stool samples, biochemical and biological parameters were assessed. Microbial infections were 54% for intestinal parasitosis and 2.8% for Helicobacter pylori. The rate of intestinal parasitosis was higher among Gp2 as compared to Gp1. The results also revealed higher prevalence of Cryptosporidium spp., Giardia lamblia, Entameba histolytica, and Cyclospora among Gp2 than Gp1. Swimming frequency, and duration infuenced the infectious status that induced anemia, abnormal blood pressure, and heart rate. Infected swimmers with	2023	https://www.nature.com/articles/s41598-023-31708-3

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histopathology were statistically investigated. Reduction in wound area reached 69.12 and 72.01 % on day 12 for KE and
YE nanoformulations, respectively. The YE encapsulated Page 4 of 5 مستوی سریة الوثیقة: استخدام داخلی Doc. No. (PUA-IT-P01-F14) Publications Template

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within chitosan nanoparticles loaded gel showed a promising	
and a significant healing effect comparable to the most	
commonly used marketed drug product (Mebo®) and possible	
mechanisms involved in the phases of healing were illustrated.	
Eco-friendly waste herbal extracts-loaded chitosan	
nanoparticles in thermo-reversible gel have been successfully	
developed from the two extracts: Kiwi peels and <i>yucca</i> seeds for	
burn and wound healing. This confirms the possible use of	
traditional medicines in advanced formulations to satisfy the	
future market of pharmaceuticals.	