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**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER**  
**REVIEW KARYA ILMIAH: JURNAL ILMIAH**

Judul Artikel Ilmiah : **Influence of Fitness-empowering Elderly Intervention Programs on Fitness Levels in Semarang City, Indonesia**

Nama semua penulis : Aris Sugiharto, Suharyo Hadisaputro, Soegiyanto, Hastaning Sakti, Hardhono Susanto, Tandiyo Rahayu, Ari Suwondo, **Dwi Sutiningsih**

Status Pengusul (coret yg tidak perlu) : ~~Penulis Utama/ Penulis Utama & Korespondensi/ Penulis Korespondensi/ Penulis Anggota~~

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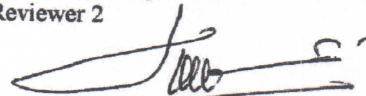
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c	Kecukupan dan kemutakhiran data/informasi dan metodologi	Sebagian besar data/informasi yang diacu untuk penulisan artikel ini adalah dari referensi terbitan kurang dari 10 tahun terakhir.
d	Kelengkapan unsur dan kualitas jurnal	Penerbit mempunyai nomor p dan e-ISSN, terindeks di EMBASE, ASCI-Database, Asian Digitaly Library, Google Scholar, SCIMAGO.

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 Reviewer 2



dr. M. Sakundarno Adi, M.Sc, Ph.D  
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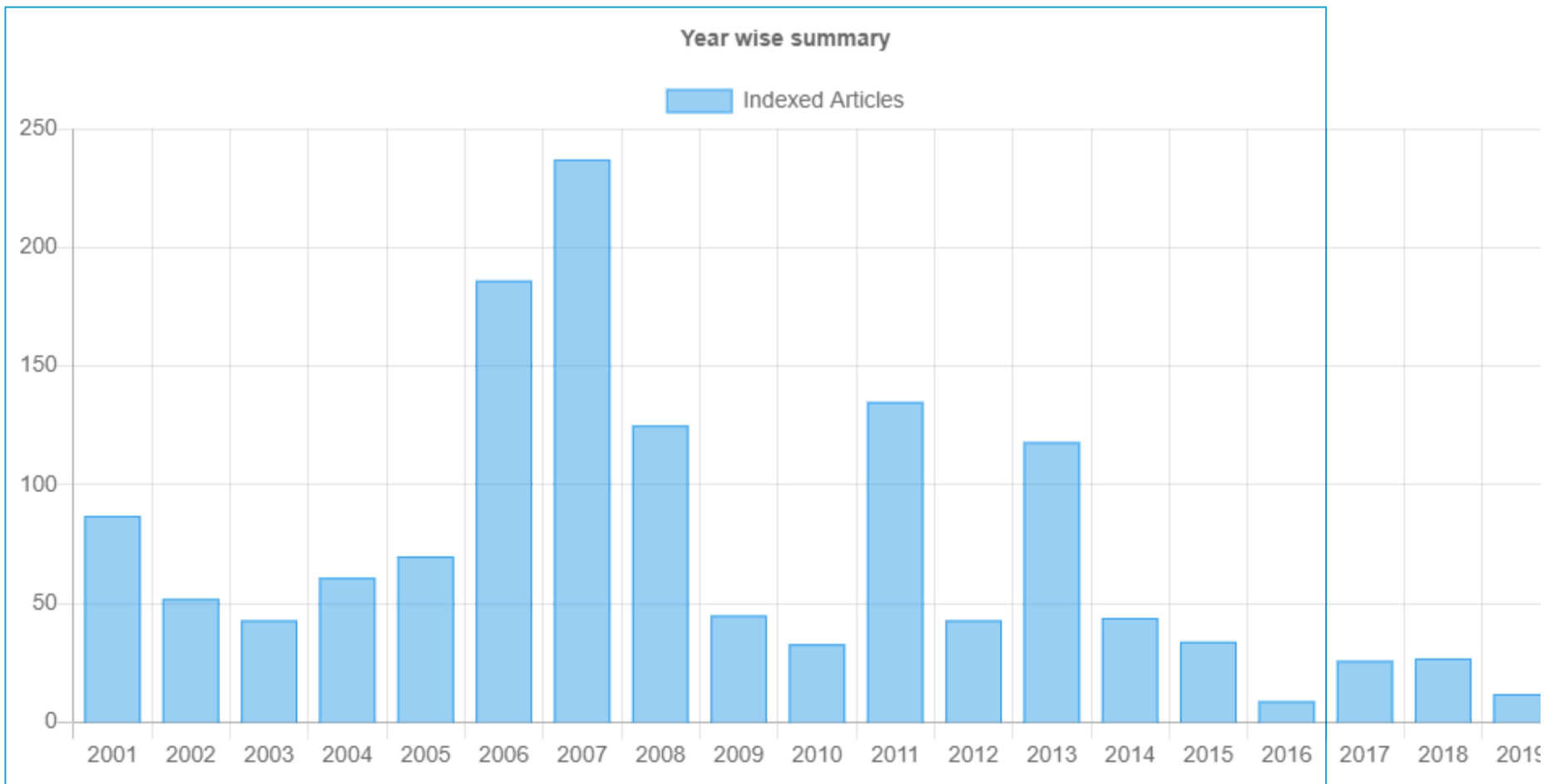
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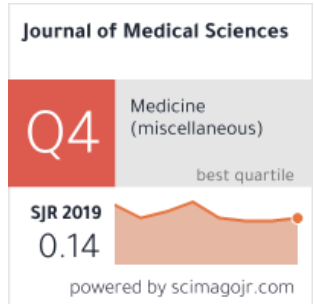
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Ghada M. Khalil, Ibrahim El-Balat, Azza Abou Zeid, Abdul-Raouf Al-Mohammadi and Gamal Enan

Journal of Medical Sciences Volume 20, Number 1, 1-12, 2020

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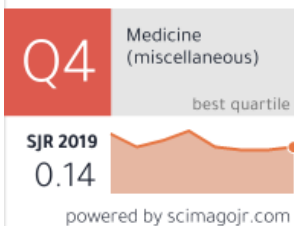
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## Research Article

# Pattern and Outcome of Drug Induced Dystonia at the Paediatric Emergency Room of a Teaching Hospital in Southwestern Nigeria

<sup>1,2</sup>A.O. Babatola, <sup>2</sup>A.B. Taiwo, <sup>1,2</sup>E.O. Ogundare, <sup>3</sup>T.O. Ojo, <sup>1,2</sup>A.B. Ajite, <sup>1,2</sup>O.I. Oluwayemi, <sup>4</sup>J.O. Fadare and <sup>1,2</sup>O.S. Olatunya

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<sup>3</sup>Department of Community Health, Obafemi Awolowo University, Ile-Ife, Nigeria

<sup>4</sup>Department of Clinical Pharmacology, Ekiti State University, Ado-Ekiti, Nigeria

## Abstract

**Background and Objectives:** Drug induced dystonia (DID) is a common reason for unnecessary diagnostic evaluations by the emergency physicians. This study aimed to determine the prevalence, pattern and outcome of DID at the Paediatric Emergency Room (PER) of Ekiti State University Teaching Hospital (EKSUTH), Ado-Ekiti, Nigeria. **Materials and Methods:** A retrospective study of cases of DID that presented at the PER of EKSUTH between January, 2014 to December, 2017 was conducted. Data about age, sex, drug intake and clinical symptoms were obtained from case files. Quantitative variables were summarized using mean and standard deviation while categorical variables were summarized using frequencies and percentages. Data were analyzed using SPSS version 20. **Results:** DID were 0.48% (17/3538) of the total admissions. The mean age of occurrence was  $5.7 \pm 4.2$  years (Range: 1-15 years) and 52.9% of them were females. The drugs implicated were amodiaquine in (7) 41.2%, promethazine (6) 35.2%, metoclopramide (2) 11.8% and haloperidol (2) 11.8%. The abnormal body movements involved the head in 12 (70.6%), neck (7) 41.2%, trunk and limbs (3) 17.6% of the cases. All the patients (100%) had complete resolution within 48 h of admission and were discharged. **Conclusion:** The leading cause of DID was the anti-malarial drug Amodiaquine with the most affected body part being the head region. Clinicians should be familiar with the various ways of presentation DID and have an increased index of suspicion when patients present with movement disorders to prevent misdiagnosis and unwarranted investigations or treatment.

**Key words:** Drug-induced dystonia, amodiaquine, manifestations, promethazine, metoclopramide

**Citation:** A.O. Babatola, A.B. Taiwo, E.O. Ogundare, T.O. Ojo, A.B. Ajite, O.I. Oluwayemi, J.O. Fadare and O.S. Olatunya, 2020. Pattern and outcome of drug induced dystonia at the paediatric emergency room of a teaching hospital in southwestern Nigeria. *J. Med. Sci.*, 20: 13-17.

**Corresponding Author:** A.O. Babatola, Department of Paediatrics, Ekiti State University, Ado-Ekiti, Nigeria

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**Competing Interest:** The authors have declared that no competing interest exists.

**Data Availability:** All relevant data are within the paper and its supporting information files.



## Research Article

# Prevalence, Characterization and Inhibition by Probiotics of Multidrug Resistant Bacteria Isolated from Renal Failure Patients Undergoing Hemodialysis

<sup>1</sup>Ghada M. Khalil, <sup>2</sup>Ibrahim El-Balat, <sup>2</sup>Azza Abou Zeid, <sup>3</sup>Abdul-Raouf Al-Mohammadi and <sup>2</sup>Gamal Enan

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## Abstract

**Background and Objectives:** Characterization and inhibition by probiotics of multidrug resistant (MDR) bacteria causing renal failure patients and receiving hemodialysis were the target of this study. The prime objective of this study was to study the prevalence of MDR within Egyptian renal failure patients and to inhibit them by probiotics. **Materials and Methods:** The pathogenic bacteria were isolated from clinical samples and were then characterized by biochemical and molecular methods. Inhibition of MDR bacteria by cell free supernatants (CFS) from the probiotic *Enterococcus faecium* NM<sub>2</sub> (*E. faecium* NM<sub>2</sub>) was studied *in vitro*. **Results:** One hundred bacterial isolates were isolated and into 76% Gram negative bacilli and 24% Gram positive cocci. Based on characterization of such isolates, 7 groups were found and could be arranged in the following descending order according to number of strains identified: *Escherichia coli* (*E. coli*, 35%) > *Klebsiella pneumoniae* (*K. pneumoniae*, 18%) > *Staphylococcus aureus* (*S. aureus*, 17%) > *Pseudomonas aeruginosa* (*P. aeruginosa*, 16%) > *Proteus vulgaris* (*Prot. vulgaris*, 8%) > *Staph. Saprophyticus* (4%) > *Streptococcus pyogenes* (*S. pyogenes*, 2%). Susceptibility of such bacteria to antibiotics was studied and the more resistant strains (4 strains) were characterized by 16S rRNA cataloging analysis. CFS obtained from the probiotic bacterium *E. faecium* NM<sub>2</sub> inhibited distinctively the growth of 4 MDR bacterial strains (RF22, RF27, RF51, RF55). **Conclusion:** One hundred bacterial isolates obtained from hemodialysis patients were isolated and identified herein. About 20% of such isolates were MDR. CFS from *E. faecium* NM<sub>2</sub> inhibited the more MDR bacteria.

**Key words:** Probiotics, multidrug resistant (MDR) bacteria, hemodialysis, renal failure

**Citation:** Ghada M. Khalil, Ibrahim El-Balat, Azza Abou Zeid, Abdul-Raouf Al-Mohammadi and Gamal Enan, 2020. Prevalence, characterization and inhibition by probiotics of multidrug resistant bacteria isolated from renal failure patients undergoing hemodialysis. J. Med. Sci., 20: 1-12.

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