



# Journal of Applied Pharmaceutical Science

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**Editor in Chief:** Prof. Srinivas Mutalik

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Ratih Pangestuti, Eko Susanto, Evi Amelia Siahaan, Heli Siti Halimatul Munarwoh, Andriati Ningrum, Lukita Purnamayati



## Scope

*Journal of Applied Pharmaceutical Science* is a peer-reviewed, open-access journal, dedicated to the publication of original research, review articles, short communications on applied researches in the following fields of biology such as. [Read More.](#)



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CiteScore (2022): **2.4**

Anti-allergy

Anti-obesity

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**Misdiagnosis of Common Pathogens in Clinical Samples: An Overlooked Factor in the Antibiotic Resistance Crisis**

ABSTRACT	Methods	RESULTS	CONCLUSION
Rapid and accurate diagnosis of the causative organisms is critical for successful treatment against infectious agents. Misdiagnosis can undermine that outcome while leading to improper antibiotic recommendations.	<ul style="list-style-type: none"> <li>One hundred and twenty pre-characterized clinical isolates were collected.</li> <li>They were analyzed phenotypically and genotypically.</li> <li>To validate the identification of <i>Klebsiella pneumoniae</i> and <i>Enterobacter coli</i>, Random Amplification of Polymorphic DNA (RAPD), as well as <i>oxyA</i> and <i>phoA</i> genes based on 16S rDNA and <i>ompA</i> and <i>ompC</i> genes were considered.</li> <li>Further validation through 16S rDNA was performed to confirm the identification of the isolates.</li> </ul>	<ul style="list-style-type: none"> <li>According to diagnostic center records, the clinical isolates contained 27.5% <i>E. coli</i> and 41.67% <i>Klebsiella spp.</i>, 11.67% <i>Pseudomonas spp.</i>, 5.33% <i>Streptococcus spp.</i>, 13.33% <i>Staphylococcus spp.</i>, and 2.83% <i>Proteus spp.</i> DCE-E, ColDCE-E (13110) isolates and DCE-Klebsiella spp. (DCI-K (50110)) isolates were selected for further study because of their high prevalence and clinical significance.</li> <li>100% DNA sequencing confirmed the misclassification of some clinical pathogens belonging to other genera.</li> <li>Misidentification of clinical pathogens by the diagnostic centers were observed.</li> </ul>	<p>Rapid molecular techniques like LAMP may avoid misdiagnosis and consequent antibiotic resistance development.</p> <p><b>Keywords</b></p> <ul style="list-style-type: none"> <li>Misdiagnosis</li> <li>16S rDNA</li> <li>Sequencing</li> <li>Loop-mediated isothermal amplification</li> <li>Antibiotic Resistance</li> </ul>

Research Article | 2023-12-14

Misdiagnosis of Bacterial Pathogens by the Diagnostic Centers: A Potential Route for Antibiotic Resistance

Shanaz Fatema Bristy, Md. Reaz Uddin, Nowshin Jahan, Dewan Zubaer Islam, Bushra Ayat Meghla [...]

**Areas investigated:**

- Satisfaction with Pharmacy Preparedness
- Satisfaction with Pharmacy Education
- Expectations for pharmacist roles in the future

Only around half of the participants were satisfied with the pharmacy services provided during the COVID-19 pandemic.

Age, gender, and place of residence (urban/rural) were predictors for further satisfaction with pharmaceutical care during the pandemic.

Most participants were satisfied with availability of products (medicines and hygiene products) during the pandemic.

Approximately half of the participants disagreed and strongly disagreed that pharmacists provided adequate oral and written patient education about COVID-19 (e.g., isolates / masks).

Most of the participants believed that pharmacists did not provide adequate information regarding chronic disease education about COVID-19.

Most of the participants disagreed with the statement "The pharmacist provided information about when to do the test, pharmacy, and the proper quarantine protocol".


Do you think pharmacists have a role in the future?

Statement	Yes	No
Do you think pharmacists have a role in the future?	250	142
Do you think reporting for suspected COVID-19 cases is important?	241	151
Do you think community pharmacists should provide COVID-19 testing services?	303	119
Do you think community pharmacists should provide COVID-19 counseling services?	267	157
Do you think pharmacists should track COVID-19 cases?	237	187

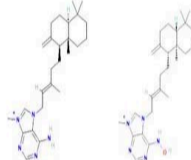
Research Article | 2024-03-05

A comprehensive analysis of public satisfaction: Community pharmacists' pandemic preparedness in Jordan

Derar H. Abdel-Qader, Yara A. Suleiman, Bashar A. Suleiman, Adel H. Suleiman, Salim Hamadi [...]



A. Nakamurai collected from Biak



Agelasin D Agelaoxim

Cytotoxic against MDA-MB-231

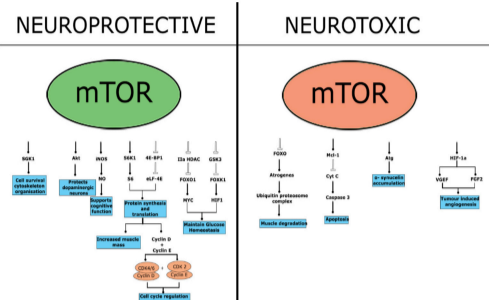
Research Article | 2024-04-03

Assessments of anti-breast cancer activity and profiling of active compounds using LC-MS/MS from the Indonesian *Agelas nakamurae*

Tutik Murniasih, Tri Aryono Hadi, Peni Ahmadi, Martha Sari, Bustanussalam Bustanussalam [...]

### Current Issue

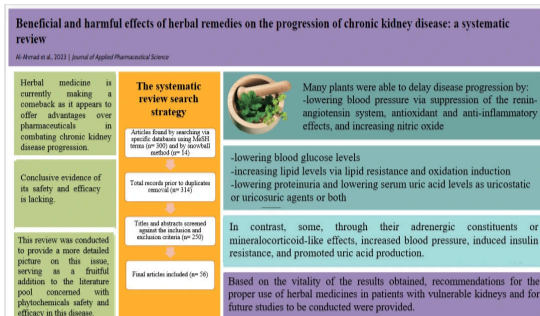
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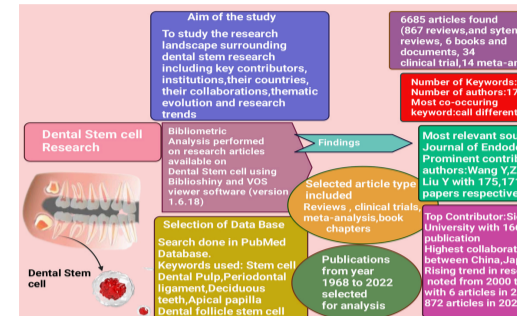
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Mohammad M. AlAhmad, Yamama Al Namer, Subish Palaian, Muae'd Jamal Alomar



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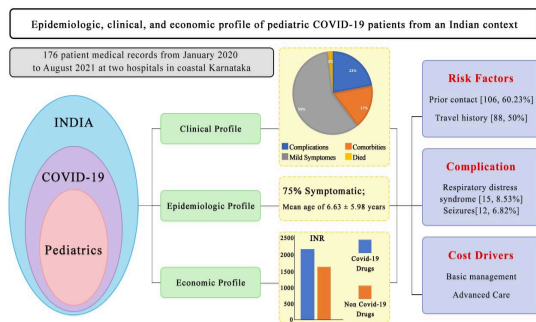
Namrata Dagli, Santosh Kumar, Rohan Bha, Govindool Sharaschandra Reddy, Rahnum Ahmad [...]



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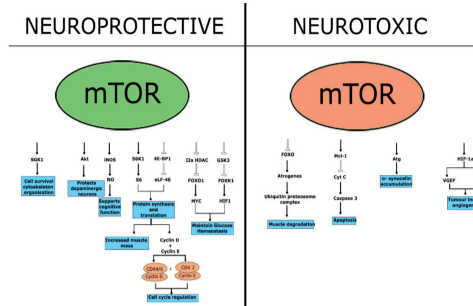
Femida Rashid, Mansi Pawar, Jay Damani, Siddheesh Rajpurohit, Suneel Mundkur [...]

Misdiagnosis of Common Pathogens in Clinical Samples: An Overlooked Factor in the Antibiotic Resistance Crisis			
ABSTRACT	Methods	RESULTS	CONCLUSION
<p><b>Rapid and accurate diagnosis of the causative organisms is critical for successful treatment against infectious agents. Misdiagnosis can obstruct that course while leading to improper antibiotic recommendations.</b></p>	<ul style="list-style-type: none"> <li>One hundred and twenty pre-characterized clinical isolates were collected.</li> <li>They were analyzed phenotypically and genotypically.</li> <li>To validate the identification of <i>Klebsiella pneumoniae</i> and <i>Enterobacter coli</i>, Random Amplification of Polymorphic DNA (RAPD) as well as <i>oxyA</i> and <i>phoA</i> gene-based PCR and Loop-Mediated Isothermal Amplification (LAMP) methods were employed.</li> <li>Further validation through 16S rDNA was performed to confirm the identification of the</li> </ul>	<ul style="list-style-type: none"> <li>According to diagnostic center records, the clinical isolates contained 27.5% <i>E. coli</i> and 41.67% <i>Klebsiella</i> spp., 11.67% <i>Pseudomonas</i> spp., 13.33% <i>Staphylococcus</i> spp., and 5.83% <i>Proteus</i> spp. DCC-E, CMLDCE-E (131180) isolates and DCC-E, <i>Klebsiella</i> spp./DCC-E (66120) isolates were selected for further study because of their high prevalence and clinical significance.</li> <li>16S rDNA sequencing confirmed the misclassification of some clinical pathogens belonging to other genera.</li> <li>Misidentification of clinical pathogens by the diagnostic centers were observed.</li> </ul>	<p>Rapid molecular techniques like LAMP may avoid misdiagnosis and circumvent antibiotic resistance development.</p>
<p><b>OBJECTIVES</b></p> <p>This study tried to validate the identity of the clinical isolates characterized by diagnostic facilities.</p>			<p><b>Keywords</b></p> <ul style="list-style-type: none"> <li>Misdiagnosis</li> <li>16S rDNA</li> <li>Sequencing</li> <li>Loop-mediated Isothermal Amplification</li> <li>Antibiotic Resistance</li> </ul>

Research Article | 2023-12-14

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Review Article | 2024-03-05

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