ASIAN JOURNAL OF PHARMACEUTICAL AND CLINICAL RESEARCH

NNOVARE ACADEMIC SCIENCES Knowledge to Innovation

Vol 12, Issue 8, 2019

Online - 2455-3891 Print - 0974-2441 Research Article

ANTIBIOTIC CONSUMPTION AT A PEDIATRIC WARD AT A PUBLIC HOSPITAL IN INDONESIA

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Received: 02 April 2019, Revised and Accepted: 11 June 2019

ABSTRACT

Objective: The aims of the study are to describe how antibiotics were used in a pediatric ward and to observe how they were prescribed for infectious diarrheas of bacterial origin indication. Diarrhea or acute gastroenteritis is one of the most common infection diagnoses observed among the hospitalized children. Rehydration therapy is the key treatment for children with diarrhea. With the zinc supplement, the duration of the hospital stay can be reduced. Thus, the decision whether the local or regional health authorities need to provide an antibiotic treatment depends on the etiology of the disease, the patient's nutritional history and immunological status, and eventually, the severity of the disease. Good anamneses and diagnoses are essential to decide whether antibiotic treatment is required.

Methods: The observation in this study consists of two phases. The first-phase observation was taken from the diagnosis and the number of antibiotics used in 2016 retrospectively calculated from each of the patients' medical records. Meanwhile, the second phase descriptive observation was prospectively drawn from the stool culture and the number of antibiotics prescribed to 21 inpatient diarrhea children between May 2017 and December 2017. The amount of antibiotic consumption was administered based on defined daily dose (DDD) and days of therapy (DOT).

Results: In 2016, 56% (828/1476) of the patients received antibiotic prescriptions. On average, the DDD per 100 bed-days was 45.57. In the prospective study, six of 21 patients with diarrhea were prescribed antibiotics intravenously. The DOT was 3.5 days and the DDD for these patients was 12.10/100 bed-days.

Conclusion: There was a high consumption rate of antibiotics which was not indicated in each patient's etiology of diarrhea in the hospital during the period. Thus, the recommendation is to encourage health authorities to judiciously prescribe antibiotics according to the guidelines.

Keywords: Antibiotic prescription, Days of therapy, Defined daily dose, Diarrhea, Pediatrics.

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INTRODUCTION

Children are admitted to hospitals mostly due to diagnoses of either infectious or non-infectious diseases. This study, however, focuses on the diagnoses of infectious diseases among which are urinary tract infection, acute meningitis, community-acquired pneumonia, fever without a localized source, and diarrhea (acute gastroenteritis). These infectious diseases are also the most common indications for antibiotics in hospitalized children [1-3]. Diarrhea or acute gastroenteritis is one of the most common infectious diagnoses seen in hospitalized children. Typically, antibiotics are not for routine use to treat gastroenteritis, except diarrhea triggered by Shigella, Vibrio cholera, or parasites [4]. The percentage of the patients who receive antibiotics should correlate with the percentage of the diagnoses of the infection. The higher number of antibiotic use could be a predictor of a higher infection prevalence. Unfortunately, there is excessive antibiotic use without any indications of infection [5]. Inappropriate use of antibiotics will increase the incidence of bacterial resistance to antibiotics [6-8]. One of the antimicrobial stewardship programs the goal of the Danish Ministry of Health is to reduce antibiotic consumption by 10% in 4 years' time with the defined daily dose (DDD)/100 bed-days for hospitalized patients [9].

Acute gastroenteritis in the community is usually self-limiting. However, at times, its diagnoses may be complicated and the prescribers may be misled by the diagnoses. Shigellosis infection, for instance, may lead to a life-threatening complication if not correctly diagnosed and quickly treated. Hydration therapy is the key treatment here. Then, antibiotic treatment is also indicated for specific bacterial infection where

the identification of an etiological agent by bacterial stool culture is rare [10,11]. Careless use of antibiotics in hospitals can actually trigger another type of diarrhea (antibiotic-associated diarrhea). This type of diarrhea is caused by bacterial species, one of which is *Clostridium difficile*. This situation requires another treatment using different antibiotics since some of the bacterial species are resistant to many of the easily available antibiotics.

The aim of the first phase of the study was to describe the number of antibiotics used in a pediatric ward in 2016. Meanwhile, the aim of the second phase was to closely observe antibiotics used for diarrhea treatment in children between May 2017 and December 2017 preceded with stool tests to confirm the etiology.

METHODS

The study was conducted at Bangil Regional Public Hospital, which is a secondary care hospital with 272 beds. The research method used in the study was a descriptive, observational cross-sectional study. The data were collected based on the two types of medical records. The first type of data was retrospective medical records of the patients in the Pediatric Ward of Bangil Regional Public Hospital in 2016. The second type of data was drawn from the prospective medical records of the patients including microbiology examination and bacteria sensitivity test of the patients admitted to the hospital between May 2017 and December 2017. The study was granted ethical clearance by the Health Research Ethics Committee of Politeknik Kesehatan Kemenkes Surabaya, Ministry of Health No. 025/S/KEPK/V/2017. The antibiotic use was measured as DDD, days of therapy (DOT), and prescribed

daily dose (PDD). The function of the DDD is to estimate the use of antibiotics in hospitals drawn from the total number of grams of each antibiotic dispensed during a period of interest divided by the World Health Organization (WHO) – DDD. DOT is the total number of days during which any unit of a specific antimicrobial agent is administered to a particular patient (numerator) divided by the number of patients (denominator) [12-14]. PDD is the average dose administered based on the total sum of prescriptions. The diagnosis data from medical records and antibiotic use were analyzed descriptively. The equation used to calculate DDD per 100 bed-days was modified from DDD/1000 population/day [15,16] as stated in the following equation:

$$DDD/1000 \text{ population } / \text{ day} = \frac{\text{Amount used in 1 year (mg)} \times 1000}{DDD(\text{mg}) \times \text{ population } / 365(\text{days})}$$
(1)

Several adjustments were made in terms of the DDD of a specific period and hospital bed-days of care availability derived from the inpatient's days of care to the equation. The DDD was drawn from the assumed average maintenance of dose per day on a drug used for the WHO-based DDD main indication in adults.

The study focused on the analysis of Pearson correlation of the number of patients and the number of antibiotics used. The absolute values of r at 0–0.19 represented very weak, 0.2–0.39 weak, 0.40–0.59 moderate, 0.6–0.79 strong, and 0.8–1 very strong associations or correlations. The significant difference between the average duration of the stay of patients with antibiotics and that of patients without antibiotics was determined by independent t-tests.

RESULTS

More than 65% of the children were admitted to the hospital due to infectious disorders and diarrhea was the second most common disorder. Not all children with infectious disorders were treated with antibiotics. Only 56% of the children admitted to the hospital in 2016 (Table 1) and 29% of the children with diarrhea admitted to the hospital between May and December 2017 were treated with antibiotics (Table 2).

The average DDD per 100 bed-days in 2016 was 45.57 (the result of the difference between 23.18 and 69.95) as shown in Table 3. The Pearson correlation between the number of patients and the DDD per 100 bed-days was weak (0.4). The average DDD for children with diarrhea between May 2017 and December 2017 was 12.1 as shown in Table 4. The DOT for ampicillin of 14 days/4 patients was 3.5 and the DOT for metronidazole of 6 days/2 patients was 3. The PDD for ampicillin of 11.5 g/14 days was 0.8 g and the PDD for metronidazole of 1175 g/6 days was 0.2 g.

The etiology of 48% of the hospitalized children with diarrhea was *Escherichia coli* (Table 5). There were zero *E. coli* isolates sensitive to ampicillin. The average duration of stay of the hospitalized children with diarrhea treated with antibiotics was similar to that of the hospitalized children with diarrhea treated without antibiotics (p>0.05).

DISCUSSION

In developing countries, infectious disorders in respiratory and digestive system, predominantly pneumonia, and gastroenteritis ranging between 45% and 80% account for the most frequent reasons for children's hospitalization [17-21]. Antibiotics are indicated particularly for below 5-year-old children with pneumonia, bronchiolitis, and urinary tract infection. Consequently, there is a high DOT of antibiotics prescribed for hospitalized children [22]. The lower DDD per 100 beddays is attributed to the lower DDD in comparison to the number of patients with diarrhea diagnosis. The DDD is the assumed average maintenance dose per day for a drug mainly prescribed for adults. Apart from its effectiveness, antibiotics also carry a microbial resistance risk. Unnecessary antibiotic prescription is the most common sign of inappropriate antibiotic use [23-27].

Table 1: The number of patients in pediatric ward in 2016

Month	Number of patie	ents	Total (%)
	With antibiotic (%)	Without antibiotic (%)	
January	74 (8.94)	72 (11.11)	146 (9.89)
February	58 (7.01)	57 (8.80)	115 (7.79)
March	70 (8.45)	70 (10.80)	140 (9.49)
April	70 (8.45)	48 (7.41)	118 (7.99)
May	95 (11.48)	90 (13.89)	185 (12.53)
June	79 (9.54)	39 (6.02)	118 (7.99)
July	38 (4.59)	53 (8.18)	91 (6.17)
August	79 (9.54)	66 (10.18)	145 (9.82)
September	51 (6.16)	39 (6.02)	90 (6.10)
October	80 (9.66)	40 (6.17)	120 (8.13)
November	79 (9.54)	34 (5.25)	113 (7.66)
December	55 (6.64)	40 (6.17)	95 (6.44)
Total	828 (56.10)	648 (43.90)	1476 (100)

Table 2: The number of patients in pediatric ward between May 2017 and December 2017

Age (years)	Number of patients		Total (%)
	With antibiotic (%)	Without antibiotic (%)	
<1	4 (19.05)	7 (33.33)	11 (52.38)
1-<5	2 (9.52)	7 (33.33)	9 (42.86)
5-14	-	1 (4.76)	1 (4.76)
Total	6 (28.57)	15 (71.43)	21 (100)

Table 3: Defined daily dose per 100 bed-days in a pediatric ward in 2016

Antibiotic name	ATC code	DDD standard	DDD per 100 bed-days
Oral route of drug administrat	ion		
Chloramphenicol	J01BA01	3	1.24
Thiamphenicol	J01BA02	1.5	3.30
Amoxicillin	J01CA04	1	6.79
Amoxicillin/clavulanic acid	J01CR02	1	0.17
Cefadroxil	J01DB05	2	0.68
Cefixime	J01DD08	0.4	2.09
Azithromycin	J01FA10	0.3	2.73
Erythromycin	J01FA01	1	0.72
Spiramycin	J01FA02	3	0.01
Rifampicin	J04AB02	0.6	3.83
Ethambutol	J04AK02	1.2	0.59
Pyrazinamide	J04AK01	1.5	2.65
Total	-		24.87
Parenteral route of drug admir	nistration		
Chloramphenicol	J01BA01	3	2.18
Ampicillin	J01CA01	2	9.09
Amoxicillin	J01CA04	1	1.65
Ampicillin/sulbactam	J01CR01	6	2.04
Cefazolin	J01DB04	3	0.02
Cefuroxime	J01DC02	3	0.02
Cefotaxime	J01DD01	4	0.24
Ceftazidime	J01DD02	4	0.39
Ceftriaxone	J01DD04	2	3.53
Streptomycin	J01GA01	1	0.08
Gentamicin	J01GB03	0.24	0.51
Amikacin	J01GB06	1	0.04
Metronidazole	J01XD01	1.5	0.96
Total			20.77
Total of oral and parenteral ro	utes of drug	5	45.57
administration			
DDD: Defined daily dose ATC: Ana	tomical thora	noutic chomic	al .

DDD: Defined daily dose, ATC: Anatomical therapeutic chemical

Table 4: The prescribed antibiotics for children with diarrhea between May 2017 and December 2017

Patient codes	Antibiotic name	ATC codes	Strength (gram)	Number of units	Duration of therapy (days); prescription (mg)	Duration of stay (days)	DDD standard	DDD patient
A	Ampicillin IV	J01CA01	0.2	23	5; 4×200	6	2	2.3
В	Ampicillin IV	J01CA01	0.2	12	3; 4×200	3	2	1.2
C	Metronidazole IV	J01XD01	0.08	3	1; 1×80	1	1.5	0.16
D	Ampicillin IV	J01CA01	0.3	9	3; 3×300	3	2	1.35
E	Ampicillin IV	J01CA01	0.2	16	3; 4×200	3	2	1.6
F	Metronidazole IV	J01XD01	0.125	15	5; 3×125	5	1.5	1.5
G	-	_	-	_		3	_	_
H	-	_	-	_		2	_	_
I	_	_	_	_		4	_	_
J	-	_	-	_		3	_	_
K	-	_	-	_		4	_	_
L	-	_	-	_		3	_	_
M	-	_	-	_		2	_	_
N	-	_	-	_		4	_	_
O	-	_	-	_		3	_	_
P	-	_	-	_		3	_	_
Q	-	_	-	_		4	_	_
R	-	_	-	_		1	_	_
S	-	_	-	_		3	_	_
T	_	_	-	_		3	_	_
U	_	_	_	_		4	_	_
Total				78	20	67	11	8.11

Daily dose per 100 bed-days: 8.11/67*100=12.10. ATC: Anatomical therapeutic chemical

Table 5: The isolation of bacteria from each patient's stool test between May 2017 and December 2017

Bacteria	Number of isola	Total (%)	
	Patient with antibiotic (%)	Patient without antibiotic (%)	
Escherichia coli Serratia odorifera	3 (14.29) 1 (4.76)	7 (33.33) 7 (33.33)	10 (47.62) 8 (38.09)
Burkholderia cepacia	1 (4.76)	1 (4.76)	2 (9.52)
Pseudomonas aeruginosa	1 (4.76)	-	1 (4.77)
Total	6 (28.57)	15 (71.43)	21 (100)

Antibiotics should not be carelessly prescribed for acute gastroenteritis since the misuse of antibiotics contributes to antibiotic resistance, one of which is Clostridium difficile infection. According to the Clinical Practice Guidelines of Health Service Facilities (FASYANKES) of the Ministry of Health No. 514/2015, acute gastroenteritis can be treated in the following ways [28]. First, Shigella gastroenteritis is treated with ampicillin and trimethoprim-sulfamethoxazole. Then, metronidazole is prescribed if there have been trophozoites of Entamoeba histolytica within red blood cells, or if there have been trophozoites or cysts of Giardia seen in the feces. Metronidazole can also be considered for persistent diarrhea with blood in the stool when two different antibiotics usually locally effective for Shigella have been prescribed without any clinical improvements. Finally, parenteral antibiotic therapy is recommended for bacteremia (systemic infections) triggered by bacterial enteric pathogens [29-31]. Doctors generally refrain from prescribing ciprofloxacin for children though it is effective in the treatment of pathogenic E. coli [32,33]. In the study, the etiology of acute diarrhea is E. coli (10 specimens; 47.62%), Serratia odorifera (eight specimens; 38.09%), Burkholderia cepacia (two specimens; 9.52%), and Pseudomonas aeruginosa (one specimen; 4.77%). Ampicillin and metronidazole were not recommended for these 21 patients. The sensitivity of *E. coli* to ampicillin is low [34-36]. Interestingly, the average length of the stay of inpatients with antibiotic treatment is similar to that of inpatients without antibiotic treatment.

CONCLUSION AND RECOMMENDATION

Surveillance is mandatory since it is one of the assessment criteria of hospital accreditation and this surveillance extends to the proper use of the antibiotics in the hospital [37,38]. The improper use of antibiotics was, in fact, still detected in the daily routines of the hospital, such as in monitoring drug therapy or medication therapy management using Gyssen flowchart [24]. The average DDD per 100 bed-days was significantly lower than the percentage of the infectious disorder. This study shows that the antibiotic use in children with diarrhea is not appropriate. Meanwhile, ampicillin and metronidazole were not prescribed for the patients due to several reasons. First, infectious diarrhea by E. coli is usually self-limiting and has low ampicillin effectiveness against E. coli. Second, there were no indications of Trichomonas vaginalis, amebiasis, or giardiasis from the stool culture. Further studies of other infectious disorders are recommended to evaluate whether discrepancies between the number of antibiotics prescribed and the number of antibiotics suggested by the therapeutic guidelines exist.

ACKNOWLEDGMENTS

The research was a joint study conducted under the Memorandum of Understanding between the Faculty of Pharmacy of the University of Surabaya in Surabaya and the Bangil Regional Public Hospital in Pasuruan. The authors thank the hospital management and staff for their cooperation to collect the data from the patients and to use them for the evaluation.

AUTHORSHIP AND CONTRIBUTORSHIP STATEMENT

FH and MSM collected and calculated the data. FH, MSM, and RY analyzed and interpreted the data. FH, RY, and RA wrote the manuscript. All authors read and approved the final manuscript.

CONFLICTS OF INTEREST STATEMENT

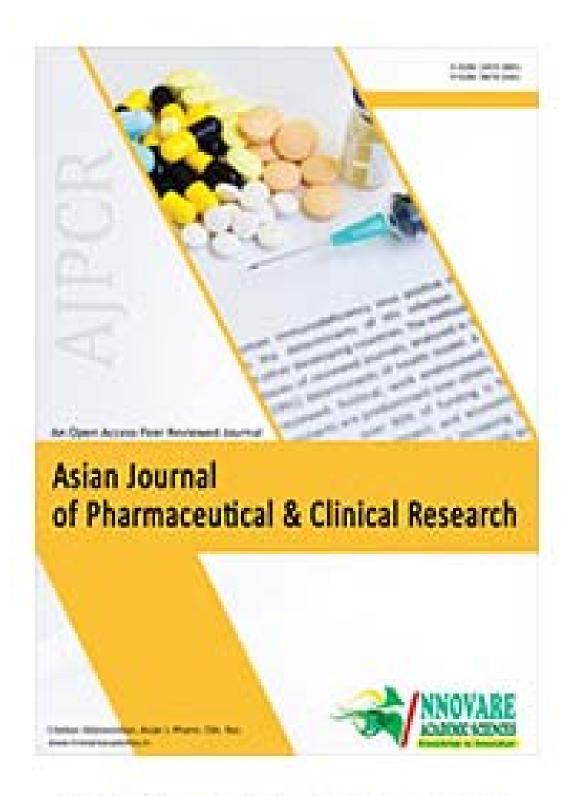
The authors declare that there are no conflicts of interest.

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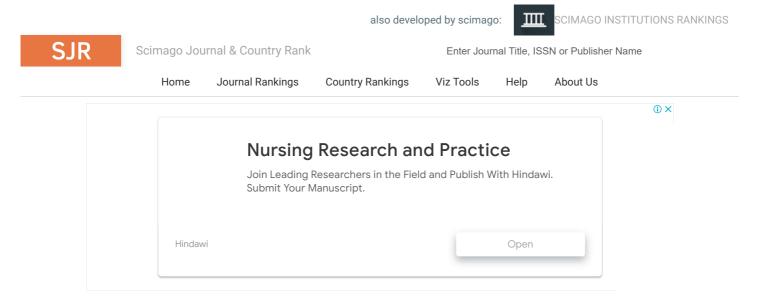
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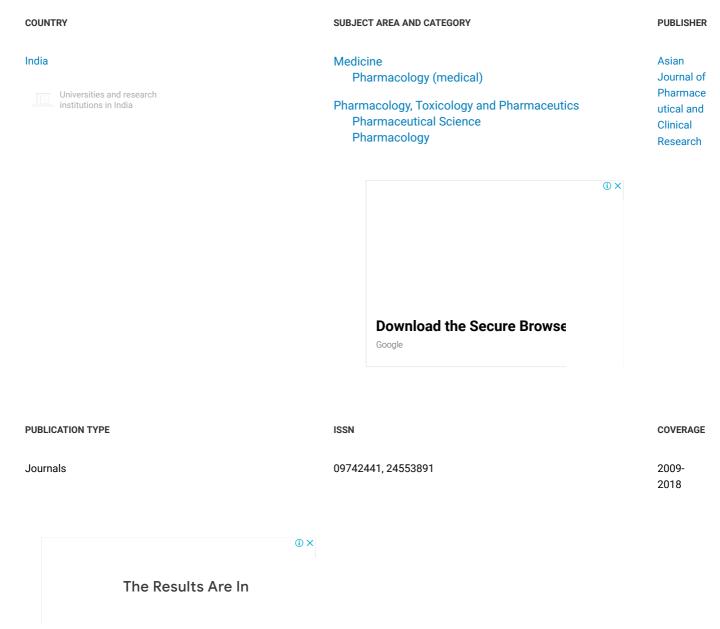
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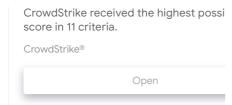
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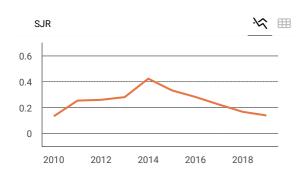
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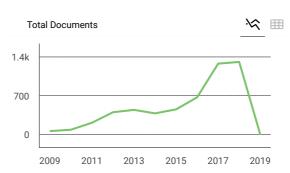
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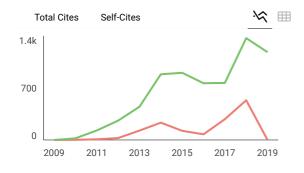
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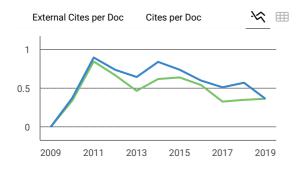
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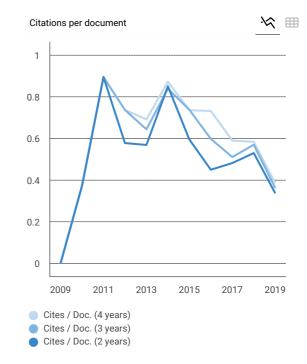
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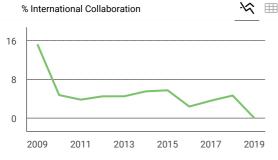


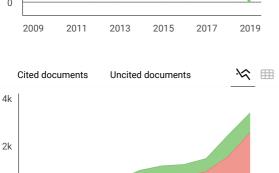










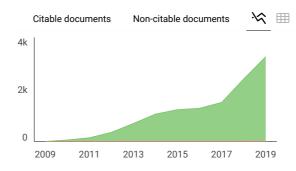


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2009

2011

2013





2015

2017

2019



Metrics based on Scopus® data as of April 2021

S swati singh 1 month ago

Sir,

Does the Asian Journal of Pharmaceutical and Clinical Research index in Scopus and Elsevier?

reply



Melanie Ortiz 1 month ago

SCImago Team

Dear Swati,

Thank you very much for your comment.

All the metadata have been provided by Scopus /Elsevier in their last update sent to SCImago, including the Coverage's period data. The SJR for 2020 has been released on 17 May 2021. We suggest you consult the Scopus database directly to see the current index status as SJR is a static image of Scopus, which is changing every day.

Best Regards, SCImago Team

Thamara Melo 9 months ago

Dear Scimago Team,

Does the Asian Journal of Pharmaceutical and Clinical Research still coverage by Scopus and Elsevier 2020?

reply

SCImago Team



Melanie Ortiz 9 months ago

Dear Thamara,

Thank you very much for your comment.

All the metadata have been provided by Scopus /Elsevier in their last update sent to SCImago, including the Coverage's period data. The SJR for 2019 was released on 11 June 2020. We suggest you consult the Scopus database directly to see the current index status as SJR is a static image of Scopus, which is changing every day.

Best Regards, SCImago Team

S Sagar 11 months ago

Dear sir, every year SJR ranking is updated on june. There is no any update for AJPCR on June 2020. Will there be no update in future??

reply



Melanie Ortiz 11 months ago

SCImago Team

Dear Sagar,

Thank you for contacting us. The SJR for 2019 is available just above.

Best Regards, SCImago Team

G GAF 1 year ago

Dear journal Editor

Why can't I found my published paper on google scholar search? My paper is published on january 2020 volume 13.

Thanks

reply

SCImago Team



Melanie Ortiz 1 year ago

Dear GAF,

thank you for contacting us.

We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus. Unfortunately, we cannot help you with your request, we suggest you to contact the journal's editorial staff, so they could inform you more deeply.

Best Regards, SCImago Team

S smitharaj.m 2 years ago

plz let me knw the asian journal of pharmaceutical sciences and clinical research.....cums under ugc list

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Sir,

Sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.

Unfortunately, we cannot help you with your request, we suggest you to visit the journal's homepage or contact the journal's editorial staff, so they could inform you more deeply. Best Regards, SCImago Team

√ Vinendra 2 years ago

What is the impact factor of AJPCR in 2018? Please share

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Vinendra, SCImago Journal and Country Rank uses Scopus data, our impact indicator is the SJR. Check our web to locate the journal. We suggest you to consult the Journal Citation Report for other indicators (like Impact Factor) with a Web of Science data source. Best Regards, SCImago Team

R Ratih 2 years ago

Dear Scimago Team,

Does the Asian Journal of Pharmaceutical and Clinical Research still coverage by Scopus until 2019? Because I have opened the Scopus.com, it mentioned that this journal isn't coverage by scopus anymore. But in SCimago web, it mentions that the coverage is still on going. What's that mean?

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Ratih, thank you very much for your comment. SJR has been updated on June 1, 2019. Each year Scopus provides us an update database and, according to that new information, indicators are calculated. Annual data updating can change journal's information. We're sorry for the inconvenience. Best Regards, SCImago Team

A Abdullah Khan 2 years ago

Dear sir, Asian Journal of Asian Journal of Pharmaceutical and Clinical Research is still indexed in SCOPUS or discontinued?

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Abdullah, thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you to consult the Scopus database directly. Remember that the SJR is a static image of a database (Scopus) which is changing every day. Best regards, SCImago Team

A Asmaa mohammed 2 years ago

Dear Elena,

Till now, Asian Journal of Pharmaceutical and Clinical Research present in SJR (2009-ongoing)

However, This journal is canceled in scopus source list 2019

I need to konw that this journal is present or cancelled

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear user, thank you very much for your comment. SJR has been updated on June 1, 2019. Each year Scopus provides us an update database and, according to that new information, indicators are calculated. Unfortunately, we cannot provide data from previous years. We're sorry for the inconvenience. Best Regards, SCImago Team

Z zaib 3 years ago

Does Asian Journal of Pharmaceutical and Clinical Research is a fake journal?

reply

S Sultan Alshahrani 3 years ago

Does AJPCR have impact factor? Thanks

reply

Manoj Kumar Mudigubba 3 years ago

Asian journal of pharmaceutical and clinical research is Elsevier indexed journal?

reply

SCImago Team



Elena Corera 3 years ago

Dear Manoj,

thank you for your request, all the journals included in SJR are indexed in Scopus. Elsevier / Scopus is our data provider.

Best Regards, SCImago Team

A Amn 3 years ago

Dear Elena

Do you advice me to publish my paper in which journal:

Indian journal of pharmaceutical sciences or

Asian journal of pharmaceutical and clinical research?

I want a journal powered by scopus now and for the next year.

Thanks

reply

S Sangmesh 3 years ago

What is the difference between Simago and scopus

reply



Elena Corera 3 years ago

SCImago Team

Dear Sangmesh, Scopus is a bibliographic database of scientific journals, the most comprehensive in the world. SCImago Journal & Country Rank is a platform in which scientometric indicators of journals included in Scopus and countries are displayed. Best Regards, SCImago Team

A Ashwani 3 years ago

Is Asian Journal of Pharmaceutical and Clinical Research is a scopus indexed journal?

reply



Elena Corera 3 years ago

SCImago Team

Dear Ashwani, all the journals included in the SJR are indexed in Scopus. Elsevier / Scopus is our data provider. Best Regards, SCImago Team

Tamara Amelia 3 years ago

we are beginner and want to publish our observation. We are interesting to publish it in this journal. could you tell us the price to publish in your journal? Thank you

Best regards, Tamara Amelia Faculty of Pharmacy Universitas Indonesia

reply

B Bayu Ardiansah 3 years ago

It is currently 100 USD (2018)



Elena Corera 3 years ago

SCImago Team

Dear Tamara, we suggest you locate the author's instructions on the journal's website. Best Regards, SCImago Team

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(Medicine: Pharmacology (medical)

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SJR 2019

0.139

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0.666

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Asian Journal of Pharmaceutical and Clinical Research

Open Access (i)

Scopus coverage years: from 2009 to 2018

(coverage discontinued in Scopus)

Publisher: Asian Journal of Pharmaceutical and Clinical Research

ISSN: 0974-2441 E-ISSN: 2455-3891

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ASE STUDY(S)			
		R YELLOW PHOSPHORUS-INDUCED ACUTE LIVER FAILURE? A CASE REPORT MMY ELIZABETH GEORGE, SARAVANAN THANGAVELU	Pages 1-3
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EVIEW ARTICLE(S))		
A REVIEW OF BOT ALFRED MAROYI	TANY, MEDICINA	L USES, AND BIOLOGICAL ACTIVITIES OF PENTANISIA PRUNELLOIDES (RUBIACEAE)	Pages 4-9
☑ View PDF	Abstract	□ Download PDF	
SCABIOSA COLU ALFRED MAROYI	MBARIA: A REVIE	W OF ITS MEDICINAL USES, PHYTOCHEMISTRY, AND BIOLOGICAL ACTIVITIES	Pages 10-14
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ODORATISSIMUN		EDICINAL USES, PHYTOCHEMISTRY AND BIOLOGICAL ACTIVITIES OF HELICHRYSUM	Pages 15-23
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KNOWLEDGE AN	ID PERCEPTIONS	OF SELF-MEDICATION PRACTICES IN AN URBAN COMMUNITY	
VARGHESE SNEE	HA SUJA, SNEHA I	DUTTA, ANN MARY SWAROOP	Pages 42-4
☑ View PDF	Abstract	□ Download PDF	
		OPMENT AND VALIDATION OF CANAGLIFLOZIN IN HUMAN PLASMA BY LIQUID IASS SPECTROMETRY	
DEEPAN T, BASA	VESWARA RAO N	MV, DHANARAJU MD	Pages 46-53
☑ View PDF	Abstract	Download PDF	
PREPARATION A	ND EVALUATION	OF IBUPROFEN EFFERVESCENIT GRANULES	
JUTI RANI DEVI, E	SIDYUT DAS		Pages 52-55
☑ View PDF	Abstract	Download PDF	
SIMULTANEOUS SWETHA A, RAM	ESTIMATION OF YA KUBER B	PHASE HIGH- PERFORMANCE LIQUID CHROMATOGRAPHIC METHOD DEVELOPM SOFOSBUVIR AND DACLATAS VIR IN PURE AND PHARMACEUTICAL FORMULATIO	N
SIMULTANEOUS SWETHA A, RAM	ESTIMATION OF YA KUBER B	그리고 하는데 얼마 내가 내가 되면 살아보면 하는데 아니라 아니라는데 아니라는데 아니라는데 아니라는데 아니라는데 아니라는데 아니라	N
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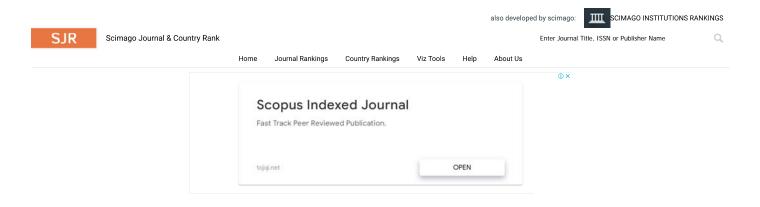
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Dk vo ppr			Pages 137-14
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		IAI PRIYA N, STEFFI PF, PRIYADARSHNI S	Pages 141-14
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SYNTHESIS AND 3-YL)THIAZOLIDI		ACTIVITY OF NOVEL 5-ARYLIDENE-2-IMINO-3-(2- PHENYL- 1,8-NAPHT)	HYRIDIN-
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△ View PDF	Abstract	□ Download PDF	
		RENT TYPES OF ENERGY RESTRICTED CALCIUM DIET MODULATES THE IN HEALTHY MALE RATS	IFLAMMATORY AND
SANDEEP DAS, D	EPAYAN CHOUD	HURI	Pages 154-15
△ View PDF	Abstract	△ Download PDF	
FEMALE WHITE R	ATS	OF ETHANOLIC EXTRACT OF BINTANGUR LEAVES (CALOPHYLLUM SOUL) FAJAR NUGRAHA, FRENGKI FRIANTO	-
		Download PDF	Pages 160-16
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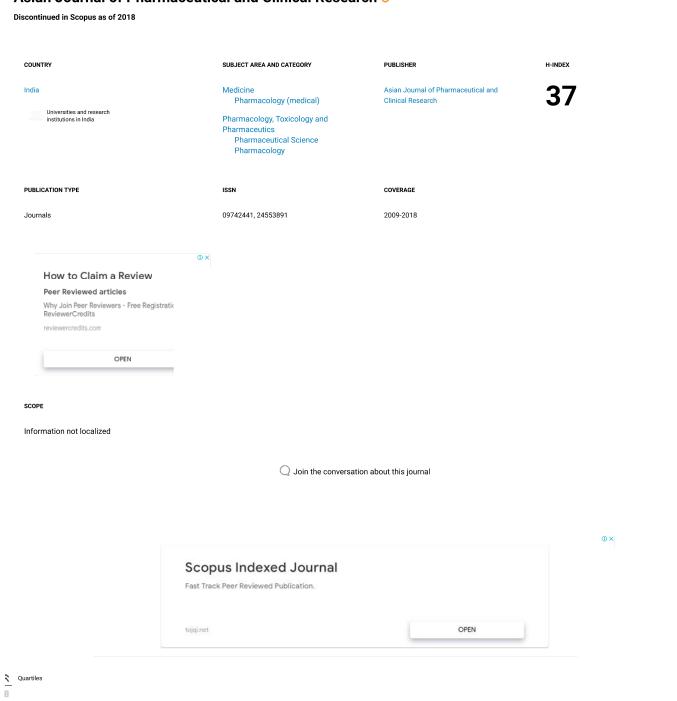
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METHODOLOGY APPROACH PREETI KUSH, JITENDER MADAN, PARVEEN KUMAR Pages 223-2	☑ View PDF	Abstract	□ Download PDF	
	METHODOLOGY	APPROACH		SURFACE Pages 223-229
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	SN, KAGHU HS, D	IVYASHREE K, RAJESHWARA AN	Pages 230-233
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JITENDRA DEBAT			Pages 234-23
△ View PDF	Abstract	□ Download PDF	
AN IN-VITRO AN	ITIBIOFILM ACTIV	ITY OF CHLORELLA VULGARIS	
SRIDEVI NS, DHA	NUSHA V, RAJES	WARI M, SANTHI N	Pages 239-24
☑ View PDF	Abstract	□ Download PDF	
STUDY OF ANTIN	/ICROBIAL ACTIV	ITY OF SILVER-DOPED HYDROXYAPATITE	
HIBU WAHID, AN	JUVAN SINGH		Pages 243-24
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	ANMA OGENYI, /	ANTHONY AJULUCHUKWUNGOKERE, JONATHAN MADUKWE	Pages 269-273
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Asian Journal of Pharmaceutical and Clinical Research 8



1 of 6