



Source details

International Journal of Pharmaceutical Research

Scopus coverage years: from 2010 to 2021

(coverage discontinued in Scopus)

Publisher: Advanced Scientific Research

ISSN: 0975-2366

Subject area: Pharmacology, Toxicology and Pharmaceutics: General Pharmacology, Toxicology and Pharmaceutics

Source type: Journal

CiteScore 2019

0.8



SJR 2019

0.282



SNIP 2021

0.151



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CiteScore 2019 ▼

$$0.8 = \frac{781 \text{ Citations 2016 - 2019}}{939 \text{ Documents 2016 - 2019}}$$

Calculated on 06 May, 2020

CiteScore rank 2019 ⓘ

Category	Rank	Percentile
Pharmacology, Toxicology and Pharmaceutics	#45/65	31st
General Pharmacology, Toxicology and Pharmaceutics		

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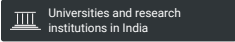
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International Journal of Pharmaceutical Research

Discontinued in Scopus as of 2021

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	H-INDEX
India 	Pharmacology, Toxicology and Pharmaceutics <ul style="list-style-type: none"> Pharmaceutical Science Pharmacology, Toxicology and Pharmaceutics (miscellaneous) 	Advanced Scientific Research	24
PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Journals	09752366	2010-2021	Homepage How to publish in this journal info@ijpronline.com

SCOPE

International Journal of Pharmaceutical Research (IJPR) is an intentional Journal which is published quarterly in English. Journal publishes papers, review articles, and short communications dealing with drug controlled release systems, pharmacodynamics, pharmacokinetics, pharmacogenomics, biopharmaceutics, drug and prodrug design, pharmaceutical analysis, drug stability, quality control, pharmaceutical engineering and materials science. Pharmaceutical Chemistry, Pharmaceutical Technology, pharmacognosy, natural product research, pharmaceutics, novel drug delivery, pharmaceutical & medicinal chemistry, computational chemistry and molecular drug design, pharmacology, pharmaceutical analysis, pharmacy practice, clinical and hospital pharmacy etc. IJPR would take much care in making your article published without much delay with your kind cooperation. IJPR hopes that Researchers, Research scholars, Academician, Industrialists etc. would make use of this research publications for the development of pharmaceutical science and technology.

 Join the conversation about this journal

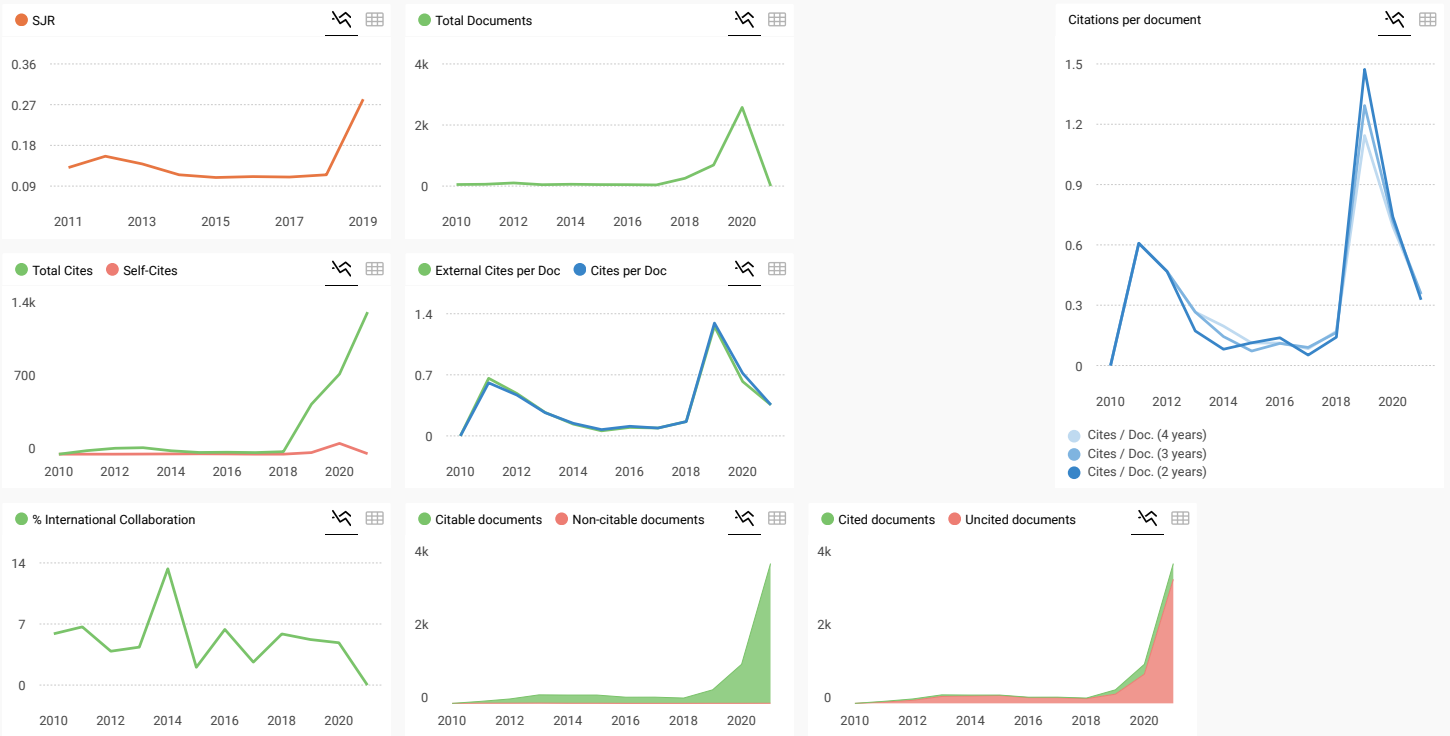
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International Journal of Pharmaceutical Research

Not yet assigned quartile



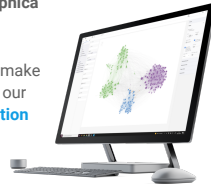
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``

SCImago Graphica

Explore, visually communicate and make sense of data with our new data visualization tool.



Metrics based on Scopus® data as of April 2022

R

Raveendra Gudodagi 3 months ago

Dear all,

Please do not submit your hard work to this journal. This journal is not indexed by Scopus from 2020. However I have a paper published in this journal in 2020, but they have not submitted to scopus data base.

reply

H

HOSSEIN ESMAELI 11 months ago

Hi

I published an article in your magazine, but unfortunately it was not accepted due to the deletion of the magazine's Q number. What is the reason for its deletion?

reply



Melanie Ortiz 10 months ago

SCImago Team

Dear Hossein, thank you very much for your participation.

Our data come from Scopus/Elsevier, which offers an annual copy of their database. We understand that, since the date indicated by Scopus/Elsevier, the journal is no longer indexed in its database. While the citation window is still active, we can show indicators of the journal (up to three years).

Best Regards, SCImago Team

S

Shahira 1 year ago

Hi

Please my article was published in your journal at 7 January 2021 how i can behave now is really you are out of scopus. This causes abig trouble for me

reply



Melanie Ortiz 1 year ago

SCImago Team

Dear Shahira,
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.
Best Regards, SCImago Team



Author 2 years ago

it looks like a predatory journal.

reply



Ahmad Fauzi 2 years ago

Hello, Please give me information about discontinuation IJPR Journal in 2021, is right? I need more information about this status? Thanks before.

my article has been published on the IJPR Volume 13, Issue 2, Apr - Jun, 2021.

Is there a possibility that the journal's coverage will be extended at SJR? Pls give me information. Thank you.

Best Regards
Ahmad Fauzi

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Ahmad,
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.
For further information, please contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/
Best Regards, SCImago Team



Nemati Khiavi Ali 2 years ago

Hello Dear Neda,
Hope you're well. Before one month approximately my Article sent to you'r publication with tittle An effective model on the efficiency of International cycling tour of Iran,Azerbaijan Based on self-management and profitability systems.
Do you got and if feasible as soon answer to me .

warm regards!

Yashar

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Yashar,
Thank you for contacting us. Please see comments below.
Best Regards, SCImago Team



K.M. ASLAM 2 years ago

Publish my paper as soon as possibke

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Aslam,
thank you for contacting us. Please see comments below.
Best Regards, SCImago Team

Y **Yunita Linwati** 2 years ago

Hello,
Please give me information about discontinuation IJPR Journal in 2021, is right?
I need more information about this status? Thanks before.
Is there a possibility that the journal's coverage will be extended at SJR?
Pls give me information.
Thank you.

Best Regards
Yunita L

 reply

D **depeka Shah** 2 years ago

after published in this journal, we received email strange fake conferences



Melanie Ortiz 2 years ago

SCImago Team

Dear Yunita,
thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/
Best Regards, SCImago Team

E **eny** 2 years ago

Dear Elena ,

I wonder, is this journal similar to Journal of Pharmaceutical Research International?

Thank You

Best Regards,
Eny

 reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Sir/Madam,
Thank you for contacting us. Could you please expand a little bit on your comment?
Best Regards, SCImago Team

M **Mykhailo Anishchenko** 2 years ago

Dear editorial board! Please give information on how you can get an article from your journal in pdf format?

Best regards, Mykhailo Anishchenko

 reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Mykhailo,
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 contact the journal's editorial staff , so they could inform you more deeply.
Best Regards, SCImago Team

N **Nada** 2 years ago

As an author SCOPUS mislead me. I checked SCOPUS website before and even after my paper get punished and I was shocked when I received a reply from SCOPUS that the journal was canceled.

 reply

Y **Yessy Kurniati** 2 years ago

Dear Nada, Can you please provide the detailed information about this journal that you received from Scopus? Because I have checked with Scopus and this journal is still in the



Arsha 2 years ago

Hello. Has Scopus confirmed that the journal has been removed?



Alison 2 years ago

Volume 13 issue 1 some articles were indexed while doe other articles within the same volume nad issued SCOPUS refused to indexed them stating that it was canceled

reply



dr ahmed 2 years ago

Is this jorurnal in scopus as i will publish in



Melanie Ortiz 2 years ago

SCImago Team

Dear Dr. Ahmed,

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.

For further information, please contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team



Ali 2 years ago

same problem i face it ?!!



Melanie Ortiz 2 years ago

SCImago Team

Dear Alison,

thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team



Elham alshibly 2 years ago

I always check scopus before contacting any journal and it is indexed

But when i asked them ti add missing document they replied by strange email it is cancelled without updating their website this irresponsible behavior toward authors makes scopus database of no credibility nor reliability never trust scopus information! who will compensate authors for such incidents caused by scopus

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Elham,

thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team



Nur 2 years ago

Dear mom

IJPR's journal Will be discontinued or no ? Safe or no for publish? Thankyou

reply



Warna 2 years ago

This journal is cancelled for Scopus without gap filling of contents.



Melanie Ortiz 2 years ago

SCLmago Team

Dear Nur,
thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/
Best Regards, SCLmago Team



Suresh aravinda 2 years ago

Journal under investigation scopus

reply



Vladimir 2 years ago

How do you know that?



Pallavi 2 years ago

IJPR is Q2 journal ?

reply



Melanie Ortiz 2 years ago

SCLmago Team

Dear Pallavi, thank you very much for your request. You can consult that information just above. Best Regards, SCLmago Team



Monika Maan 2 years ago

Is International journal of pharmaceutical research is Indexed in Scopus and in which language it is published - in Chinese or in English

reply



Melanie Ortiz 2 years ago

SCLmago Team

Dear Monika,
Thank you very much for your comment.
All the metadata have been provided by Scopus /Elsevier in their last update sent to SCLmago, 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. For further information about this journal, please visit the journal's website.
Best Regards, SCLmago Team



Rose 2 years ago

Please help me how I can pay 200\$ the fee of this journal? I have big confused about the steps to pay
Thank

reply



Melanie Ortiz 2 years ago

SCLmago Team

Dear Rose,
thank you for contacting us.
Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff , so they could inform you more deeply.
Best Regards, SCLmago Team



Hadi 2 years ago

This journal publishes for 210\$ all that you will send

reply



Shenouda Girgis 2 years ago

tHANKS

← reply



yasaman 2 years ago

please send me an article" Correlation between ABO groups with viral load in chronic hepatitis B infection"
International Journal of Pharmaceutical Research, 12(1), pp. 468-472
thank you



Melanie Ortiz 2 years ago

SCImago Team

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



Hadi 2 years ago

you can pay only 200\$ they are one of the fraud publishers



Melanie Ortiz 2 years ago

SCImago Team

Dear Hadi,

Thank you for contacting us. According to their website:
"IJPR does not charge the authors or authors' institutions for the submission & processing of papers."

Best Regards, SCImago Team



Melanie Ortiz 2 years ago

SCImago Team

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



Sura Alkhafaji 2 years ago

Please, I want to know the rank of this journal(INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH)is it allocated in Q1,Q2 or Q3 (according to the last Scopus update)?
thank U for Your response

← reply



VIBITH A S 2 years ago

I check ones all citation they used only 3-4 journals Team SCImago please check it citation is worst and done incorrectly

waiting for your Reply

Regards
VIBITH A S



Melanie Ortiz 2 years ago

SCImago Team

Dear Vibith,

Thank you for contacting us. SCImago calculates the scientometric indicators based on the data sent by Scopus every year.
We suggest you contact Scopus regarding your query here:
https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team



Melanie Ortiz 2 years ago

SCImago Team

Dear Sura, thank you very much for your request. You can consult that information just above. The SJR for 2019 was released on 11 June 2020 and the indicators for 2020 will be available in June 2021.

For every journal, the annual value of the SJR is integrated into the distribution of SJR values of all the subject categories to which the journal belongs. There are more than 300 subject categories. The position of each journal is different in any category and depends on the performance of the category, in general, and the journal, in particular .

Best Regards, SCImago Team

V

VIBITH A S 2 years ago

Is now International Journal of Pharmaceutical research, is available in scopus index. Which rank is allocated for this journal is Q1,Q2, Q3, Q4.

reply

S

samaresh datta 2 years ago

Q2



Melanie Ortiz 2 years ago

SCImago Team

Dear Vibith,

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.

You can consult the journal's scientometric indicators just above.

Best Regards, SCImago Team

S

Shavkat 2 years ago

I wanted to find out if the list of journals indexed in the SCOPUS database is included? Why isn't it on the list updated in June 2020?

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Shavkat,

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 June 2020, 11. 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.

For further information, please contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team

S

shanu 2 years ago

is it true that the journal will be removed from Scopus in October?

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Shanu,

thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

For further information, please contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team

K

khalida Kadhim Al-Kelaby 2 years ago

my research in microbiology/virology pls can I submit my research?

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Khalida,
thank you for contacting us. Please see comments below.
Best Regards, SCImago Team



Muhammed Hsn 2 years ago

Dear sir
Good morning
Kindly I have an article and I want to publish it. Please give me the steps.
Thanks alot.

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Muhammed, thank you very much for your comment, we suggest you look for author's instructions/submission guidelines in the journal's website. Best Regards, SCImago Team



Mustafa 2 years ago

Hello
How much does it cost to publish in this journal and how long does it take to accept publication in it?
(INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH)
With all kindness to you

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Mustafa,

Thank you for contacting us. Please see comments below.

Best Regards, SCImago team



GONO SEMIADI 2 years ago

Dear Sir/Madam,
I am from the National Researchers Assessor Committee, a committee that assesses the performance of the Indonesian Scientist. One of the parameters is using the qualification of the journal and proceeding indexing by this institution. I have found an inconsistency of the tracking result between the system and the metadata taken from the Excell that is accessible to the public. The question is for the International Journal of Pharmaceutical Research (this journal), which I can not find in the excell metadata. Is there any explanation for that. Thank you for the response.

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Gono,

Thank you for contacting us.

As you probably already know, SCImago calculates the scientometric indicators based on the data sent by Scopus. Keep in mind that these data are a static image of Scopus database and that this one increases its documents daily. The SJR indicator is calculated equally with a recursive algorithm that takes into account the data sent by Scopus. As it occurs for other impact factors, the Citation Window is always considered for the calculation. The SJR indicator is performed on the calculation of citations received by journals over a period of 3 years, giving greater weight to citations from highly prestigious journals (those with high citation rates and low self-citation) using the Google PageRank algorithm.
For further information related to the data sent by Scopus, we suggest you contact Scopus Support directly here:
https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team



CARON JOHAR 2 years ago

Why this journal(JPR) is not available in Scopus database 2020.

reply

C

CARON JOHAR 2 years ago

Thanks for your response. But my question is All Scopus Coverage journals are updated in Official Scopus website(<https://www.scopus.com>) Source list 2020(MS Excel). Why this journal is not included in the Source list 2020? Kindly reply.



Melanie Ortiz 2 years ago

SCImago Team

Dear Caron,
thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you contact Scopus support: https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/
Best Regards, SCImago Team



Melanie Ortiz 2 years ago

SCImago Team

Dear Caron,

Thank you for contacting us.

The Scopus journal's profile can be found here: <https://www.scopus.com/sourceid/19700174645>

Best Regards, SCImago Team

S

Salah M 2 years ago

Dear Melanie Ortiz
I couldn't understand how SCImago Journal

reply

A

Ashwani Kumar Singh 2 years ago

my review article
"An Overview on Acne Vulgaris " (Manuscript Number: IJPR-2020-01-064
was accepted for publication in the International Journal of
Pharmaceutical Research.
But iam unclear about publication fee submission for indian authors and process of payment on instamojo and where I have to mail the receipt of payment?

And do I have to email the corrected and revised manuscript and proofs to this email address? Or other?
Please kindly reply.

Also I have sent mail to journal mail (info@ijpronline.com, synthesishub@gmail.com)
multiple times nearly for month and got no reply
Please help

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Ashwani,
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 visit the journal's homepage (See submission/author guidelines) or contact the journal's editorial staff , so they could inform you more deeply.
Best Regards, SCImago Team

Z

zha roy 2 years ago

Dear Dr
My paper was accepted in this journal 9 months ago but it has not been published yet and I emailed but did not receive an answer . How can I get information about when it will be published?
thanks

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Zhra,
thank you for contacting us.
Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff again, so they could inform you more deeply.
Best Regards, SCImago Team



munther alamery 2 years ago

Dear Dr
I find two title of your journal
International Journal of Pharmaceutical Research
and
Journal of International Pharmaceutical Research
why?

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Munther,
Thank you for contacting us. Could you please expand a little bit your comment?
Best Regards, SCImago Team



Mohammed 2 years ago

On your website Journal of International Pharmaceutical Research is given two Ranking of this Journal Q2 ? It's correct Ranking ?

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Mohammed, thank you for contacting us. For every journal, the annual value of the SJR is integrated into the distribution of SJR values of all the thematic categories to which the journal belongs. There are more than 300 thematic categories. The position of each journal is different in any category and depends on the performance of the category, in general, and the journal, in particular. Best Regards, SCImago Team



Dr. Ajay Kumar 2 years ago

Mam,
I have some query about this journal:

1. On your website Journal name and home page given Journal of International Pharmaceutical Research but ISSN No. and publisher name International journal of Pharmaceutical Research. Please tell me Journal correct Name.

2. On your website Journal of International Pharmaceutical Research is given two time and giving two Ranking of this Journal Q2 and Q 3.

Please tell me correct information about it and update your website also.

reply



hausein HH 2 years ago

Hello Dr.
There is a difference in the title of the journal with the similarity of ISSN, and you can confirm through the Scopus website (<https://www.scopus.com/sourceid/19700174645>), where there is a delay and presentation of the address in the first two words.



Melanie Ortiz 2 years ago

SCImago Team

Dear Dr. Ajay,
Thank you for contacting us. Could you please expand a little bit your comment concerning the Quartile's data?

Best Regards, SCImago Team



Jenny 2 years ago

Journal of International Pharmaceutical Research is a genuine journal . But the address is not same as SCl Imago said..... if you publish it in ijjournals.com it is not reflected in scopus

reply

E

Editor ijpr 2 years ago

Dear Team,
You have wrongly update the website name and journal name but ISSN and Publisher name is correctly update.
Our website is ijjonline.com

Scopus link is <https://www.scopus.com/sourceid/19700174645>

Please kindly update it

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Editor,

Thank you for contacting us. The website's information has been correctly updated. Best Regards, SCImago Team

A

akash garg 2 years ago

the homepage of journal of international pharmaceutical research is not working or can say showing error in opening. i want to know the problem with the journal website and till when it can be solved out.

also, i want to know that how i can know about the status of my article which i have submitted in the mentioned journal.

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Akash, thank you for contacting us. We will proceed to analyze your request as soon as possible. Unfortunately, we can not help you with the status of your paper, we suggest you contact the editorial's staff for further information. Greetings from Spain and thank you for using the SCImago products, SCImago Team

A

Arun B Mathews 2 years ago

Madam,

There are so many fake websites ,who claim that they are the original website of some scopus indexed journals. How an author can make sure that the website address for a particular journal is correct or not .Is there any way to findout this, in scopus sites.

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Arun,
Thank you for your comment.

For more information about predatory journals you can check the link below:
<https://beallslist.weebly.com/>.

If you need further information about a particular journal, we suggest you to contact Scopus Support here:

https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best regards, SCImago Team

A

Arun B Mathews 2 years ago

Can you give me the website address AND correct name of the following journal.

Journal of International Pharmaceutical Research

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Arun,

The website's information is available above. Concerning the Title, as you probably already know, SJR is a portal with scientometric indicators of journals indexed in Scopus and all the data have been provided by Scopus /Elsevier. SCImago doesn't have the authority over this data which are property of Scopus/Elsevier. SCImago has a signed agreement that limits our performance to the generation of scientometric indicators derived from the metadata sent in the last update. We suggest you to contact with Scopus support for reporting the corresponding inconsistencies or modifications.

Best Regards, SCImago Team

H

Harshavardhan Awari 3 years ago

Sir, I published the paper in the above said journal, I send request to scopus support to include in scopus database, there are giving replay as this journal is not in scopus so that we are unable to include. any body can give me the clarity regarding the same.

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Harshavardhan,

Thank you for contacting us. The paper will be considered as Scopus indexed as long as it has been published in the same period in which Scopus has indexed the journal. For example, if the coverage in Scopus is 2014-2016, the papers published in 2017 will not be indexed as the Journal is not indexed in Scopus anymore. For this reason, we always recommend to consult the Scopus database directly to see the current status of a journal .

Here is the journal's Scopus profile : <https://www.scopus.com/sourceid/21100881509>

Best Regards, SCImago Team

A

Arun B Mathews 3 years ago

Dear Elena Corera,

The ISSN is for the (JOURNAL OF INTERNATIONAL PHARMACEUTICAL RESEARCH) which is issued by China not from India he> The website of this journal is:
http://202.38.153.236:81/Jweb_jipr/EN/article/showOldVolumn.do

The journals was hijacked this journal title:
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A

Arun B Mathews 3 years ago

Madam,

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please give me a reply to solve this problem

Arun B Mathews

reply

A

Arun B Mathews 3 years ago

Madam,

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Arun B Mathews

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L

Liliana 3 years ago

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Looking forward to your answer,
Thank you in advance!
Best regards,
Liliana
Bashkir State medical university

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SCImago Team

R

Raisa 3 years ago

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Melanie Ortiz 3 years ago

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Best Regards,SCImago Team

N

nihad 3 years ago

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A

Arun B Mathews 3 years ago

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Arun B Mathews

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S Sandeep Poddar 3 years ago

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Melanie Ortiz 3 years ago

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N nihad khalawe 3 years ago

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journal of international pharmaceutical research

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S shaimaa 3 years ago

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Melanie Ortiz 3 years ago

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A Ahmed Mahmoud 4 years ago

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P Parveen 3 years ago

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A Ali I. Al-Mosawi 4 years ago

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anil 4 years ago

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International Journal of Pharmaceutical Research

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ISSN:1674-0440E-ISSN:0975-2366

Subject area:

Pharmacology, Toxicology and Pharmaceutics: General Pharmacology, Toxicology and Pharmaceutics

 reply

B

bahir razzaq 4 years ago

hi dear

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journal of international pharmaceutical research

regards

dr.bahir razzaq

ph.D. pharmacology



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Best Regards,
SCImago Team

A

anil 4 years ago

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Elena Corera 4 years ago

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sharafaldin al-mussavi 4 years ago

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Elena Corera 4 years ago

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Research Article

Side Effects of Drugs in Patients with Nasopharyngeal Carcinoma Receiving Neoadjuvant Chemotherapy

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ABSTRACT

Background: Nasopharyngeal carcinoma (NPC) therapy includes radiation, chemotherapy, or a combination of both. The purpose of this study was to determine the incidence of drug side effects in NPC patients receiving neoadjuvant chemotherapy.

Methods: This was a retrospective descriptive study using secondary data in the form of medical records at Dr. Soetomo Hospital, Surabaya, from January 1 to December 31, 2018.

Results: Comparison of the number of patients with the incidence of side effects of chemotherapy drugs was 1:3.8. Anemia was the most side effect of chemotherapy drugs with 85 cases (24.85%), followed by hypocalcemia with 78 cases (22.81%), and hyponatremia with 60 cases (17.54%). Leukopenia was the rarest type of side effect of chemotherapy drugs, with only one in 342 cases (0.29%). Based on the degree, it was found that the most side effects of chemotherapy drugs were first degree with 253 cases (73.98%), followed by second degree with 78 cases (22.81%), third degree with 9 cases (2.63%), and degree IV with 2 cases (0.58%). There were no side effects of grade V drugs in the samples.

Conclusion: The incidence of side effects of neoadjuvant chemotherapy drugs was 77.24% with the most side effects of anemia.

Keywords: nasopharyngeal carcinoma, drug side effects, chemotherapy

INTRODUCTION

Nasopharyngeal carcinoma (NPC) is a form of head and neck malignancy often found. Nasopharyngeal carcinoma originates from the mucosal epithelium or nasopharyngeal lymphoepithelial tissue and has rapid tumor growth mostly located in the Rosenmuller fossa [1, 2]. NPC is a disease with poor prognosis because of the position of tumor close to the base of the skull and vital structures [3]. Nasopharyngeal carcinoma ranks third as the most common type of malignancy in men in Indonesia [4]. The prevalence of NPC in Indonesia is 6.2 per 100,000 or around 12 000 new cases per year [1].

The main treatments for NPC include radiation and chemotherapy [5]. Chemotherapy is the use of cytostatic drugs to inhibit or even kill cancer cells. Chemotherapy, as a combination therapy, can be given before (neoadjuvant), after (adjuvant) or in conjunction with radiotherapy (concurrent). The study also revealed that there was a significant decrease in detectable viral load in the plasma of NPC patients after therapy [6]. Chemotherapy often causes various side effects. Drug side effects of chemotherapy can occur in any organ system. According to WHO, drug side effects are any adverse or unexpected responses

to drugs, occurring at doses used in humans for prophylactic, diagnosis or therapeutic purposes [7]. According to the Common Terminology Criteria for Adverse Events (CTCAE) version 5.0, the severity of drug side effects chemotherapy is categorized into degree I to degree V. Degree I is mild, and degree V is death [8]. This study aimed to determine the incidence of drug side effects in NPC patients who received neoadjuvant chemotherapy at the Inpatient Ward of Dr. Soetomo Hospital, Surabaya, from January 1 to December 31, 2018.

METHODS

A retrospective descriptive study used secondary data in the form of medical records. The population was the medical record of NPC sufferers who received neoadjuvant chemotherapy at the Inpatient Ward, Department of Otorhinolaryngology-Head and Neck Surgery, Dr. Soetomo Hospital, Surabaya, Indonesia, from January 1 to December 31, 2018. The sample was a medical record that met the inclusion and exclusion criteria. Inclusion criteria included patients with NPC who underwent the first to the third neoadjuvant chemotherapy cycle and had complete laboratory results after undergoing chemotherapy and a complete medical record.

Exclusion criteria were NPC sufferers who had received radiotherapy before and/or during three cycles of chemotherapy.

The data recorded included basic data in the form of age, sex, comorbid factors, histopathological types based on World Health Organization (WHO) criteria, staging based on the classification of the 8th American Joint Committee on Cancer (AJCC) and chemotherapy regimens. Laboratory data recorded were laboratory results of patients two weeks after undergoing chemotherapy in the form of hemoglobin, leukocytes, neutrophils, platelets, serum creatinine, albumin, serum glutamic pyruvic transaminase (SGPT), serum electrolytes (sodium, potassium, chloride), and calcium. Other data recorded were the time of appearance, type and degree of side effects of chemotherapy drugs categorized according to the severity criteria of CTCAE.

RESULTS

From January 1 to December 31, 2018, 167 patients were found to undergo three-cycle neoadjuvant chemotherapy. Table 1 shows the characteristics of the subjects in this study. A total of 129 patients (77.24%) of them experienced side effects of chemotherapy drugs, consisting of 97 men (75.19%) and 32 women (24.81%). The ratio of men to women is 3: 1. The mean age of the patients was 46.6 years. The youngest age of an NPC patient was 15 years, while the oldest was 75 years old. The largest age group was the age ranging from 41 to 50 years, 42 patients (32.56%). Most comorbid diseases were hypertension with 11 patients (8.53%), followed by hepatitis B and type 2 diabetes mellitus in 10 patients (7.75%). NPC patients with WHO type 3 histopathology experienced the most side effects of chemotherapy drugs, with 124 patients (96.12%). NPC patients with stage IVA were the group that experienced the most side effects of chemotherapy drugs, which was 79 patients (61.24%).

Table 1: Characteristics of the subjects

Characteristics	Total	Percentage (%)
Age (years)		
10 – 19	3	2.33
20 – 29	9	6.98
30 – 39	20	15.50
40 – 49	42	32.56
50 – 59	39	30.23
60 – 69	12	9.30
70 – 79	4	3.10
Comorbid factors		
Hypertension	11	8.53
Hepatitis B	10	7.75
Diabetes mellitus	10	7.75
Hypercholesterolemia	5	3.88
Hepatitis C	1	0.78
No comorbid disease	92	71.32
Type		
WHO type 1	2	1.55
WHO type 2	3	2.33
WHO type 3	124	96.12
Stage		
I	0	0.00
II	12	9.30
III	31	24.03
IVA	79	61.24
IVB	7	5.43
Total	129	100.00

Table 2 shows the characteristics of chemotherapy in the subject. NPC patients who received cisplatin and paclitaxel regimens were

the group experiencing the most side effects of chemotherapy drugs, with 79 patients (61.24%). Side effects of chemotherapy drugs begin to

appear in the first cycle of chemotherapy. A total effects in the first cycle of chemotherapy. of 117 patients (90.70%) experienced drug side

Table 2: Characteristics of chemotherapy in the subjects

Variables	Total	Percentage (%)
Regimen type		
Cisplatin - Paclitaxel	79	61.24
Carboplatin - Paclitaxel	39	30.23
Cisplatin - 5FU	10	7.75
Carboplatin - 5FU	1	0.78
Chemotherapy cycle		
I	117	90.70
II	5	3.88
III	7	5.42
Total	129	100.00

Table 3 displays data on the distribution of types and severity of side effects of chemotherapy drugs. Comparison of the number of patients with the incidence of side effects of chemotherapy drugs was 1:3.8. Based on the type, it was found that anemia was the most side effect of chemotherapy drugs with 85 cases (24.85%), followed by hypocalcemia with 78 cases (22.81%), and hyponatremia with 60 cases (17.54%). Leukopenia was the rarest type of chemotherapy side effect, with only one out of 342 cases (0.29%).

Based on the degree, it was found that the most side effects of chemotherapy drugs were first degree with 253 cases (73.98%), followed by second degree with 78 cases (22.81%), third degree with 9 cases (2.63%), and degree IV with 2 cases (0.58%). There were no side effects of grade V drugs in the sample (Table 3). The most severe side effect of chemotherapy drugs was grade IV, experienced by two female patients in the age group of 31-45 years.

Table 3: Distribution of types and severity of side effects of chemotherapy drugs

Type of drug side effect	Degree of drug side effect										Total (N)	Total (%)
	I		II		III		IV		V			
	N	%	N	%	N	%	N	%	N	%		
Anemia	73	21.35	12	3.51	0	0.00	0	0.00	0	0.00	85	24.85
Hypocalcemia	52	15.20	25	7.31	1	0.29	0	0.00	0	0.00	78	22.81
Hyponatremia	41	11.99	15	4.39	4	1.17	0	0.00	0	0.00	60	17.54
Hypokalemia	30	8.77	4	1.17	0	0.00	1	0.29	0	0.00	35	10.23
Hypoalbuminemia	31	9.06	3	0.88	0	0.00	0	0.00	0	0.00	34	9.94
Hyperkalemia	5	1.46	11	3.22	1	0.29	0	0.00	0	0.00	17	4.97
Decreased SK	6	1.75	2	0.58	0	0.00	0	0.00	0	0.00	8	2.34
Hypercalcemia	7	2.05	0	0.00	0	0.00	0	0.00	0	0.00	7	2.05
Neutropenia	0	0.00	4	1.17	1	0.29	1	0.29	0	0.00	6	1.75
Thrombocytopenia	3	0.88	1	0.29	1	0.29	0	0.00	0	0.00	5	1.46
Hypernatremia	4	1.17	0	0.00	0	0.00	0	0.00	0	0.00	4	1.17
SGPT increase	1	0.29	1	0.29	0	0.00	0	0.00	0	0.00	2	0.58
Leukopenia	0	0.00	0	0.00	1	0.29	0	0.00	0	0.00	1	0.29
Total	253	73.98	78	22.81	9	2.63	2	0.58	0	0	342	100.00

DISCUSSION

Side effects of chemotherapy are quite common. Until now, there have never been any studies that evaluate the incidence of drug side effects in NPC patients undergoing chemotherapy at Dr.

Soetomo Hospital, Surabaya. The incidence of chemotherapy drug side effects in this study was quite high. A total of 129 of 167 NPC patients undergoing three-cycle neoadjuvant chemotherapy experienced drug side effects. The

results of this study are the same as previous studies reporting the incidence of side effects of chemotherapy drugs by 71.5% [9]. The high incidence is caused by the very toxic nature of chemotherapy drugs and having a narrow therapeutic window, causing more side effects than other classes of drugs. [7].

In this study, male patients experienced more side effects of chemotherapy drugs than women, with a ratio of 3: 1. The results of this study are consistent with other studies reporting that male patients experienced more side effects of chemotherapy drugs than women [10, 11]. The NPC incidence rate in males is also higher at 1.7 per 100,000 cases, while in females it is 0.7 per 100,000 cases. [12]. However, other studies reported that female patients more often experience the side effects of chemotherapy drugs due to changes in the pharmacokinetics of chemotherapy drugs caused by the influence of hormones at puberty, menstruation or pregnancy [9, 13].

The major age groups in this study were found in the age range of 40-49 years and 50-59 years. Several other studies reported the incidence of high-risk NPC populations in the age group 40-49 years and 50-59 years [1, 14, 15]. This is also consistent with the previous study with the 41-60 year age group experiencing the most side effects of chemotherapy drugs (37.5%) [16]. The high incidence of side effects of chemotherapy drugs in the group of elderly patients can be caused by a decrease in the body's metabolic capacity and kidney excretion function as well as pharmacokinetic and pharmacodynamics changes in drugs circulating in the body, causing accumulation of chemotherapy drugs in the body, and ultimately triggering the emergence of drug side effects [9, 17].

The most comorbid disease in this study was hypertension. This is consistent with the previous report stating that hypertension is the most common comorbid disease for patients with malignant cases (37%) [18]. Hypertension is a complication often found in patients receiving cisplatin-based chemotherapy regimens [19]. Hypertension can be suffered before or after undergoing a chemotherapy cycle. The administration of chemotherapy can cause side effects of hypertension drugs, and most are caused by the group of alkylating agents (36-39%), angiogenesis inhibitors (17-80%), and immunosuppressants given after stem cell transplantation (30-80%) [18]. This class of drugs causes reduced bioavailability of nitric oxide and increased production of endothelin in blood vessels and kidneys, causing endothelial dysfunction, increased vascular tone, decreased

microvessels density, thrombotic microangiopathy and ultimately causes changes in glomerular structure, proteinuria, and hypertension [18, 19]. The side effects of chemotherapy drugs are most experienced by NPC patients with the cisplatin-paclitaxel regimen. This is similar to other studies [17, 20]. The cisplatin-paclitaxel regimen is recommended as one of the inductions of chemotherapy regimens for NPC. One of the side effects of platinum is nephrotoxic. Cisplatin causes lesions in the proximal tubules of the kidneys that interfere with sodium and water reabsorption. In the acute phase, there are changes in renal morphology in the form of cellular necrosis, epithelial layer depletion, hydropic degeneration, and vasa recta congestion. In the chronic phase, there is cellular atrophy, atypical nuclei, and interstitial inflammation. Some of the damage will cause Na⁺/K⁺-ATPase inhibition and lead to electrolyte imbalance. Cisplatin and carboplatin are also toxic to hemoglobin, leukocytes and platelets. Anemia is found in 9-40% of patients, while thrombocytopenia is found in 2 - 50% of patients. Leukopenia occurs in 0-50% of patients and causes a leukocyte count of less than 1.5 x 10⁹/L in 5% of patients [21]. Side effects of taxanes occur because of myelosuppression. Paclitaxel often causes side effects in the form of neutropenia, hypersensitivity reactions, and peripheral neuropathy [22]. The high side effects of chemotherapy drugs in NPC patients receiving the cisplatin-paclitaxel regimen may also be caused by the large number of samples in this group.

The results of this study indicated that the incidence of drug side effects in the first cycle of chemotherapy was 90.70%. These results are consistent with a recent study reporting that 80% of patients experienced side effects of chemotherapy drugs in less than two weeks after the first chemotherapy [16]. The regimen obtained by the patient can cause the high appearance of the side effects of chemotherapy drugs in the first cycle. Cisplatin-paclitaxel was used by 61.2% of patients in this study. Nephrotoxic effects of cisplatin in the form of lesions in the proximal renal tubules can appear within 30 minutes of administration of the drug, and disruption of tubular reabsorption appears within two to three days afterwards [21]. The myelosuppression effect of cisplatin in the form of anemia arises since the administration of the first cycle of chemotherapy, and the value of hemoglobin decreases with the administration of the next cycle of chemotherapy [23]. Cisplatin also causes leukopenia which appears within 6 to 26 days after the first administration [21].

Paclitaxel can cause the number of leukocytes to decrease on the fifth to seventh day after administration, reach the lowest number before the 14th day, and begin to recover on the 21st day [22].

Anemia was the most common side effect of chemotherapy drugs in this study. In this study, the highest degree of anemia was grade I with 73 patients (21.35%). These results are in accordance with previous studies [7, 24]. Anemia is often found in cancer patients; its prevalence reaches 30-90% [25]. In cases of malignancy, anemia is caused by many factors. Cancer cells can infiltrate the bone marrow and directly suppress hematopoiesis. Cancer cells can also produce several cytokines resulting in the sequestration of Fe, and lead to decreased production and lifespan of red blood cells. Myelosuppression chemotherapy drugs cause post-chemotherapy anemia. Chemotherapy drugs directly interfere with the synthesis of red blood cells in the bone marrow. Also, platinum group chemotherapy drugs are nephrotoxic and cause anemia through decreased erythropoietin production in the kidneys [25].

The incidence of side effects of first-degree chemotherapy drugs in this study was 73.98%. This is consistent with recent studies reporting that most of the side effects of chemotherapy drugs that appeared were grade I (57.8%) [24]. The toxicity of some chemotherapy regimens is cumulative. The more patients get chemotherapy, the more severe the side effects. European Cancer Anemia Survey reported that the incidence of anemia increased from 19.5% in the first chemotherapy cycle to 46.7% in the fifth chemotherapy. The severity of anemia is also increasing, becoming degree II or III along with the increasing number of chemotherapy cycles [25]. The side effects of the taxanes group, especially the docetaxel, are also accumulative. The incidence and severity of side effects of drugs in the form of fluid retention are increasing at cumulative doses of more than 400mg/m² [22]. In this study, most patients experienced drug side effects during the first cycle of chemotherapy. In the initial cycle, the effects of the accumulation of chemotherapy drugs have not been obtained. Thus, most of the side effects of drugs that appear are mild.

CONCLUSION

The incidence of side effects of neoadjuvant chemotherapy drugs in Dr. Soetomo Hospital Surabaya was 77.24%. Most side effects of the drug were found in men aged 40-49 years, with comorbid of hypertension, WHO type 3 histopathology and stage IVA. Side effects of

chemotherapy drugs appeared in the first cycle. The regimen most often causing side effects of chemotherapy was cisplatin-paclitaxel. Anemia was a type of drug side effects mostly occurred, and the first degree was the degree of drug side effects with the highest number. The results of this study are expected to be material for monitoring and evaluating treatment in NPC patients undergoing chemotherapy at Dr. Soetomo Hospital, Surabaya.

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