

DAFTAR PUSTAKA

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LAMPIRAN 1

PROTOKOL PROSPERO

PROSPERO
International prospective register of systematic reviews



UNIVERSITY *of York*
Centre for Reviews and Dissemination

Systematic review

Fields that have an **asterisk (*)** next to them means that they **must be answered**. **Word limits** are provided for each section. You will be unable to submit the form if the word limits are exceeded for any section. Registrant means the person filling out the form.

This record cannot be edited because it has been marked as out of scope

2. Original language title.

For reviews in languages other than English, give the title in the original language. This will be displayed with the English language title.

Efektivitas dan Keamanan Baricitinib Sebagai Kandidat Obat COVID-19: Sebuah Kajian Sistematis

3. * Anticipated or actual start date.

Give the date the systematic review started or is expected to start.

01/03/2021

4. * Anticipated completion date.

Give the date by which the review is expected to be completed.

28/02/2022

5. * Stages of review at time of this submission.

This field uses answers to initial screening questions. It cannot be edited until after registration.

Tick the boxes to show which review tasks have been started and which have been completed.

Update this field each time any amendments are made to a published record.

The review has not yet started: No

Review stage	Started	Completed
Preliminary searches	Yes	Yes
Piloting of the study selection process	Yes	Yes
Formal screening of search results against eligibility criteria	Yes	Yes
Data extraction	Yes	Yes
Risk of bias (quality) assessment	Yes	Yes

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Review stage	Started	Completed
Data analysis	Yes	Yes

Provide any other relevant information about the stage of the review here.

7. * Named contact email.

Give the electronic email address of the named contact.

yayuksirahay05@gmail.com

9. Named contact phone number.

Give the telephone number for the named contact, including international dialling code.

+62 8114090027

11. * Review team members and their organisational affiliations.

Give the personal details and the organisational affiliations of each member of the review team. Affiliation refers to groups or organisations to which review team members belong. **NOTE: email and country now MUST be entered for each person, unless you are amending a published record.**

Mrs Yayuk Sri Rahayu. Hasanuddin University, Makassar City, South Sulawesi Province, Indonesia, 90245

Ms A. Anggriani. Hasanudddin University, Makassar, Indonesia

Mr Habibie Habibie. University Of Groningen, Groningen, The Netherlands

Mr Muh. Akbar Bahar. Hasanuddin University, Makassar, Indonesia

Mrs Elly Wahyudin. Hasanuddin University, Makassar, Indonesia

13. * Conflicts of interest.

List actual or perceived conflicts of interest (financial or academic).

None

14. Collaborators.

Give the name and affiliation of any individuals or organisations who are working on the review but who are not listed as review team members. **NOTE: email and country must be completed for each person, unless you are amending a published record.**

16. * Searches.

State the sources that will be searched (e.g. Medline). Give the search dates, and any restrictions (e.g. language or publication date). Do NOT enter the full search strategy (it may be provided as a link or attachment below.)

("COVID-19" [Supplementary Concept]) OR "severe acute respiratory syndrome coronavirus 2"
[Supplementary Concept]) OR "Severe Acute Respiratory Syndrome"[MeSH]) OR (SARSCoV-2[tiab] OR
COVID-19[tiab] OR2019 nCOV[tiab] OR COVID19[tiab] OR "severe acute respiratory syndrome coronavirus
2"[tiab] OR "2019 novel coronavirus disease"[tiab] OR "COVID-19 pandemic"[tiab] OR "SARS-CoV-2
infection"[tiab] OR "COVID-19 virus disease"[tiab] OR "2019 novel coronavirus infection"[tiab] OR
"2019-nCoV infection"[tiab] OR "coronavirus disease 2019"[tiab] OR "coronavirus disease-19"[tiab] OR
"2019-nCoV disease"[tiab] AND (("Baricitinib" [Supplementary

18. * Condition or domain being studied.

Give a short description of the disease, condition or healthcare domain being studied in your systematic

review.

At the beginning of 2020, the world was shocked by the outbreak of a new virus, namely the new type of corona virus (SARS-CoV-2) and the disease is called Coronavirus Disease-2019. It is known that the origin of this virus came from Wuhan, China. On March 11, 2020, WHO declared COVID-19 a pandemic disease. The presence of a hyper-inflammatory response characterized by cytokine storm syndrome is thought to cause the infected patient to suddenly worsen and develop acute respiratory distress syndrome to shock. Baricitinib is expected to be a drug that can block cytokine storms by suppressing JAK1 / JAK2. To support the use of Baricitinib as an alternative drugs for COVID-19, we need to perform a systematic review to evaluate the effectiveness and safety of this drug on COVID-19 patients.

20. * Intervention(s), exposure(s).

Give full and clear descriptions or definitions of the interventions or the exposures to be reviewed. The preferred format includes details of both inclusion and exclusion criteria.

Baricitinib in the treatment of Covid-19

22. * Types of study to be included.

Give details of the study designs (e.g. RCT) that are eligible for inclusion in the review. The preferred format includes both inclusion and exclusion criteria. If there are no restrictions on the types of study, this should be stated.

All experimental, observational studies or case reports / case series that report the effectiveness and/or the safety of Baricitinib in patients infected with Covid-19 with mild, moderate to severe severity.

24. * Main outcome(s).

Give the pre-specified main (most important) outcomes of the review, including details of how the outcome is defined and measured and when these measurement are made, if these are part of the review inclusion criteria.

Effectiveness of baricitinib is characterized by clinical improvement, reduced risk of ICU admission and reduced risk of death

Any outcomes (RR, OR, RD, NNT) reported by the articles

26. * Data extraction (selection and coding).

Describe how studies will be selected for inclusion. State what data will be extracted or obtained. State how this will be done and recorded.

Records resulted from databases searching will be screened based on inclusion and exclusion criteria. Title and abstract screening will be conducted by two review authors independently. Full-text report of peer-reviewed studies which have passed from title and abstract screening will be screened further by two review authors independently for final decision of studies eligibility. Authors of original studies will be contacted by email if clarification regarding studies eligibility is needed. Disagreement between review authors regarding studies eligibility will be resolved through discussion. Results selected: study design, baricitinib dose, study population, efficacy and safety, side effects, severity, cure rate, mortality rate and duration of drug

administration.

28. * Strategy for data synthesis.

Describe the methods you plan to use to synthesise data. This but should be and describe how the proposed approach will be applied to your data. If meta-analysis is planned, describe the models to be used, methods to explore statistical heterogeneity, and software package to be used.

Data from eligible studies which are sufficient and homogenous will be included in a meta-analysis using a random effect model with Review Manager (RevMan) by the Cochrane Collaboration. If the data are not homogenous enough, it will be presented descriptively.

30. * Type and method of review.

Select the type of review, review method and health area from the lists below.

Type of review

Cost effectiveness

No

Diagnostic

No

Epidemiologic

No

Individual patient data (IPD) meta-analysis

No

Intervention

No

Living systematic review

No

Meta-analysis

No

Methodology

No

Narrative synthesis

No

Network meta-analysis

No

Pre-clinical

No

Prevention

No

Prognostic

No

Prospective meta-analysis (PMA)

No

Review of reviews

No

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Service delivery
No

Synthesis of qualitative studies
No

Systematic review
Yes

Other
No

Alcohol/substance misuse/abuse
No

Blood and immune system
No

Cancer
No

Cardiovascular
No

Care of the elderly
No

Child health
No

Complementary therapies
No

COVID-19
Yes

For COVID-19 registrations please tick all categories that apply. Doing so will enable your record to appear in area-specific searches

Chinese medicine
Diagnosis
Epidemiological
Genetics
Health impacts
Immunity
Long COVID
Mental health
PPE
Prognosis
Public health intervention
Rehabilitation
Service delivery
Transmission
Treatments
Vaccines
Other

Crime and justice
No

Dental
No

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Digestive system
No

Ear, nose and throat
No

Education
No

Endocrine and metabolic disorders
No

Eye disorders
No

General interest
No

Genetics
No

Health inequalities/health equity
No

Infections and infestations
Yes

International development
No

Mental health and behavioural conditions
No

Musculoskeletal
No

Neurological
No

Nursing
No

Obstetrics and gynaecology
No

Oral health
No

Palliative care
No

Perioperative care
No

Physiotherapy
No

Pregnancy and childbirth
No

Public health (including social determinants of health)
No

Rehabilitation

No

Respiratory disorders

No

Service delivery

No

Skin disorders

No

Social care

No

Surgery

No

Tropical Medicine

No

Urological

No

Wounds, injuries and accidents

No

Violence and abuse

No

32. * Country.

Select the country in which the review is being carried out. For multi-national collaborations select all the countries involved.

34. Reference and/or URL for published protocol.

If the protocol for this review is published provide details (authors, title and journal details, preferably in Vancouver format)

Add web link to the published protocol.

Or, upload your published protocol here in pdf format. Note that the upload will be publicly accessible.

No I do not make this file publicly available until the review is complete

Please note that the information required in the PROSPERO registration form must be completed in full even if access to a protocol is given.

36. Keywords.

Give words or phrases that best describe the review. Separate keywords with a semicolon or new line. Keywords help PROSPERO users find your review (keywords do not appear in the public record but are included in searches). Be as specific and precise as possible. Avoid acronyms and abbreviations unless these are in wide use.

Baricitinib; COVID-19

37. Details of any existing review of the same topic by the same authors.

If you are registering an update of an existing review give details of the earlier versions and include a full bibliographic reference, if available.

38. * Current review status.

Update review status when the review is completed and when it is published. New registrations must be ongoing so this field is not editable for initial submission.

Please provide anticipated publication date

Review_Ongoing

40. Details of final report/publication(s) or preprints if available.

Leave empty until publication details are available OR you have a link to a preprint (NOTE: this field is not editable for initial submission). List authors, title and journal details preferably in Vancouver format.

Give the link to the published review or preprint.

LAMPIRAN 2

TABEL HASIL TELAAH KRITIS ARTIKEL

1. Combined intravenous immunoglobulin and baricitinib treatment for severe COVID-19 with rhabdomyolysis: A case report.

No		Yes	No	Unclear	Not applicable
1.	Were patient's demographic characteristics clearly described?	✓			
2.	Was the patient's history clearly described and presented as a timeline?	✓			
3.	Was the current clinical condition of the patient on presentation clearly described?	✓			
4.	Were diagnostic tests or assessment methods and the results clearly described?	✓			
5.	Was the intervention(s) or treatment procedure(s) clearly described?	✓			
6.	Was the post-intervention clinical condition clearly described?	✓			
7.	Were adverse events (harms) or unanticipated events identified and described?	✓			
8.	Does the case report provide takeaway lessons?	✓			

2. Attenuation of COVID-19-induced cytokine storm in a young male patient with severe respiratory and neurological symptoms.

NO		Yes	No	Unclear	Not applicable
1.	Were patient's demographic characteristics clearly described?	✓			
2.	Was the patient's history clearly described and presented as a timeline?	✓			
3.	Was the current clinical condition of the patient on presentation clearly described?	✓			
4.	Were diagnostic tests or assessment methods and the results clearly described?	✓			
5.	Was the intervention(s) or treatment procedure(s) clearly described?	✓			
6.	Was the post-intervention clinical condition clearly described?	✓			
7.	Were adverse events (harms) or unanticipated events identified and described?	✓			
8.	Does the case report provide takeaway lessons?	✓			

3. Baricitinib as rescue therapy in a patient with COVID-19 with no complete response to sarilumab

NO		Yes	No	Unclear	Not applicable
1.	Were patient's demographic characteristics clearly described?	✓			
2.	Was the patient's history clearly described and presented as a timeline?	✓			
3.	Was the current clinical condition of the patient on presentation clearly described?	✓			
4.	Were diagnostic tests or assessment methods and the results clearly described?	✓			
5.	Was the intervention(s) or treatment procedure(s) clearly described?	✓			
6.	Was the post-intervention clinical condition clearly described?	✓			
7.	Were adverse events (harms) or unanticipated events identified and described?	✓			
8.	Does the case report provide takeaway lessons?	✓			

4. Additional baricitinib loading dose improves clinical outcome in COVID-19

No		Yes	No	Unclear	NA
1.	Was true randomization used for assignment of participants to treatment groups?	✓			
2.	Was allocation to treatment groups concealed?			✓	
3.	Were treatment groups similar at the baseline?	✓			
4.	Were participants blind to treatment assignment?			✓	
5.	Were those delivering treatment blind to treatment assignment?			✓	
6.	Were outcomes assessors blind to treatment assignment?			✓	
7.	Were treatment groups treated identically other than the intervention of interest?	✓			
8.	Was follow up complete and if not, were differences between groups in terms of their follow up adequately described and analyzed?	✓			
9.	Were participants analyzed in the groups to which they were randomized?	✓			
10.	Were outcomes measured in the same way for treatment groups?	✓			
11.	Were outcomes measured in a reliable way?	✓			
12.	Was appropriate statistical analysis used?	✓			
13.	Was the trial design appropriate, and any deviations from the standard RCT design (individual randomization, parallel groups) accounted for in the conduct and	✓			

5. Experience with the use of baricitinib and tocilizumab monotherapy or combined, in patients with interstitial pneumonia secondary to coronavirus COVID-19: a real-word study

Citation: Rosas, 2020	
<i>Are there other companion papers from the same study?</i>	
	Yes/ Can't tell/ No
1. Is the study design clearly stated?	Yes
2. Does the study address a clearly focused question? Consider: Population; Exposure (defined and accurately measured?); Outcomes.	Yes
3. Are the setting, locations and relevant dates provided? Consider: recruitment period; exposure; data collection.	Yes
4. Were participants fairly selected? Consider: eligibility criteria; sources & selection of participants.	Yes
5. Are participant characteristics provided? Consider if: sufficient details; a table is included.	Yes
6. Are the measures of exposures & outcomes appropriate? Consider if the methods of assessment are valid & reliable.	Yes
7. Is there a description of how the study size was arrived at?	No
8. Are the statistical methods well described? Consider: How missing data was handled; were potential sources of bias (confounding factors) considered/controlled for.	Yes
9. Is information provided on participant eligibility? Consider if following provided: number potentially eligible, confirmed eligible, entered into study	No
10. Are the results well described? Consider if: effect sizes, confidence intervals/standard deviations provided; the conclusions are the same in the abstract and the full text.	Yes
11. Is any sponsorship/conflict of interest reported?	Yes
12. Finally...Did the authors identify any limitations and, if so, are they captured above?	Yes

6. Use of baricitinib in patients with moderate to severe coronavirus disease 2019

Criteria	Yes	No	Other (CD,NR,NA)*
1. Was the study question or objective clearly stated?	Yes		
2. Were eligibility/selection criteria for the study population prespecified and clearly described?	Yes		
3. Were the participants in the study representative of those who would be eligible for the test/service/intervention in the general or clinical population of interest?	Yes		
4. Were all eligible participants that met the prespecified entry criteria enrolled?	Yes		
5. Was the sample size sufficiently large to provide confidence in the findings?		No	
6. Was the test/service/intervention clearly described and delivered consistently across the study population?	Yes		
7. Were the outcome measures prespecified, clearly defined, valid, reliable, and assessed consistently across all study participants?	Yes		
8. Were the people assessing the outcomes blinded to the participants' exposures/interventions?			NR
9. Was the loss to follow-up after baseline 20% or less? Were those lost to follow-up accounted for in the analysis?			NA (retrospective study)
10. Did the statistical methods examine changes in outcome measures from before to after the intervention? Were statistical tests done that provided p values for the pre-to-post changes?	Yes		
11. Were outcome measures of interest taken multiple times before the intervention and multiple times after the intervention (i.e., did they use an interrupted time-series design)?			NA
12. If the intervention was conducted at a group level (e.g., a whole hospital, a community, etc.) did the statistical analysis take into account the use of individual-level data to determine effects at the group level?			NA

7. Baricitinib against severe COVID-19: effectiveness and safety in hospitalized pretreated patients

Criteria	Yes	No	Other (CD,NR,NA)*
1. Was the study question or objective clearly stated?	Yes		
2. Were eligibility/selection criteria for the study population prespecified and clearly described?	Yes		
3. Were the participants in the study representative of those who would be eligible for the test/service/intervention in the general or clinical population of interest?	Yes		
4. Were all eligible participants that met the prespecified entry criteria enrolled?	Yes		
5. Was the sample size sufficiently large to provide confidence in the findings?		No	
6. Was the test/service/intervention clearly described and delivered consistently across the study population?	Yes		
7. Were the outcome measures prespecified, clearly defined, valid, reliable, and assessed consistently across all study participants?	Yes		
8. Were the people assessing the outcomes blinded to the participants' exposures/interventions?			NR
9. Was the loss to follow-up after baseline 20% or less? Were those lost to follow-up accounted for in the analysis?			NA (retrospective study)
10. Did the statistical methods examine changes in outcome measures from before to after the intervention? Were statistical tests done that provided p values for the pre-post changes?	Yes		

11. Were outcome measures of interest taken multiple times before the intervention and multiple times after the intervention (i.e., did they use an interrupted time-series design)?			NA
12. If the intervention was conducted at a group level (e.g., a whole hospital, a community, etc.) did the statistical analysis take into account the use of individual-level data to determine effects at the group level?			NA

8. Baricitinib restrains the immune dysregulation in patients with severe COVID-19

	Yes	No	Unclear	Not applicable
1. Is it clear in the study what is the 'cause' and what is the 'effect' (i.e. there is no confusion about which variable comes first)?	✓			
2. Were the participants included in any comparisons similar?		✓		
3. Were the participants included in any comparisons receiving similar treatment/care, other than the exposure or intervention of interest?		✓		
4. Was there a control group?	✓			
5. Were there multiple measurements of the outcome both pre and post the intervention/exposure?			✓	
6. Was follow up complete and if not, were differences between groups in terms of their follow up adequately described and analyzed?	✓			
7. Were the outcomes of participants included in any comparisons measured in the same way?	✓			
8. Were outcomes measured in a reliable way?	✓			
9. Was appropriate statistical analysis used?	✓			

LAMPIRAN 3

HASIL PERHITUNGAN PERSETUJUAN

		Pengamat 1 / reviewer 1		
		Ya	Tidak	Jumlah
Pengamat 2/ Rreviewer 2	Ya	a	b	a + b
	Tidak	c	d	c + d
	Jumlah	a + c	b + d	a + b + c + d = n

Ket :

$$\text{Persetujuan} = (a + d)/n$$

$$\text{Cohens's Kappa} = (Po - Pe)/(1 - Pe)$$

$$Po = (a + d)/n$$

$$Pe = [(a + c)(a + b)/n + (b + d)(c + d)/n]/n$$

Kategori nilai Cohen's Kappa

$$0.00 \leq k \leq 0.20 = \text{Rendah}$$

$$0.21 \leq k \leq 0.40 = \text{Lumayan}$$

$$0.41 \leq k \leq 0.60 = \text{Cukup}$$

$$0.61 \leq k \leq 0.80 = \text{Baik}$$

$$0.81 \leq k \leq 1.00 = \text{Sangat Baik}$$

Skrining Fase 1 (TIAB screening)

	Reviewer 1			
		Included	Excluded	Jumlah
Reviewer 2	Included	19	0	19
	Excluded	0	859	859
	Jumlah	19	859	878

$$\text{Cohen's Kappa} = (P_o - P_e) / (1 - P_e) \quad (1 - 0,95) / (1 - 0,95) = 0,05 / 0,05 = 1$$

$$P_o = (a + d) / n$$

$$P_e = [(a + c) (a + b) / n + (b + d) (c + d) / n] / n$$

$$P_o = (19 + 859) / 878 = 1$$

$$P_e = [((19 * 19) / 878) + (859 * 859) / 878] / 878$$

$$= (361 / 878) + (737.881 / 878) / 878$$

$$= (0,4 + 840,4) / 878$$

$$\text{Nilai Pesetujuan} = P_o * 100\%$$

$$= 1 * 100\% = 100\%$$

Skrining Fase 2 (Full Text screening)

	Reviewer 1			
		Included	Excluded	Jumlah
Reviewer 2	Included	8	0	8
	Excluded	0	11	11
	Jumlah	8	11	19

$$\text{Cohen's Kappa} = (P_o - P_e) / (1 - P_e) \quad (1 - 0,5) / (1 - 0,5) = 0,5 / 0,5 = 1$$

$$P_o = (a + d) / n$$

$$P_e = [(a + c) (a + b) / n + (b + d) (c + d) / n] / n$$

$$P_o = (8 + 11) / 19 = 1$$

$$P_e = [((8 * 8) / 19) + (11 * 11) / 19] / 19$$

$$= (64 / 19) + (121 / 19) / 19$$

$$= (3,3 + 6,3) / 19$$

$$= 0,5$$

$$\text{Nilai Pesetujuan} = P_o * 100\%$$

$$= 1 * 100\%$$

$$= 100\%$$