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Sat, Feb 20, 2021, 9:06 PM



Research Journal of Pharmacy and Technology

Paper ID: 21215101917866850 Date of Submission: 15-Feb-2021

Paper Title: **Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)**

Authors: **Ainun Sajidah***; Evi Risa Mariana; Zainab

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Ainun Sajidah <ainunsajidah@gmail.com>

Fri, Mar 19, 2021, 9:52 AM



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Research Journal of Pharmacy and Technology Monika Daharwal <editor.rjpt@gmail.com>

Mar 19, 2021, 7:12 PM



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Thu, Apr 8, 2021, 10:53 AM ☆ ↶ ⋮

Research Journal of Pharmacy and Technology

Paper ID: **21215101917866850** Date of Submission:

Paper Title: **Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)**

Authors: **Ainun Sajidah*; Evi Risa Mariana; Zainab**

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Date: DD-Apr-YYYY, 08:22 AM

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1. What is the novelty of this research?
2. Please consistent in writing the part of the coriander
3. Please describe the specific instrument that used
4. Please complete the each mean in table 3 with the deviation standard
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Apr 9, 2021, 12:58 AM



Research Journal of Pharmacy and Technology

Paper ID: 21215101917866850 Date of Submission: 15-Feb-2021

Paper Title: **Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)**

Authors: **Ainun Sajidah*; Evi Risa Mariana; Zainab**

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Fri, Apr 9, 2021, 12:58 AM



Research Journal of Pharmacy and Technology

Paper ID: 21215101917866850 Date of Submission: 15-Feb-2021

Paper Title: **Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)**

Authors: **Ainun Sajidah*; Evi Risa Mariana; Zainab**

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to editor.rjpt

Wed, May 12, 2021, 1:04 PM



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May 12, 2021, 5:31 PM



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Fri, May 14, 2021, 11:56 PM ☆ ↶ ⋮

Research Journal of Pharmacy and Technology

Paper ID: 21215101917866850 Date of Submission: 15-Feb-2021

Paper Title: **Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)**

Authors: **Ainun Sajidah*; Evi Risa Mariana; Zainab**

Dear Author(s),

Thanks for submission of paper at enlisted journals of 'A & V Publications'. In the manuscript, reviewers has found some revisions. Therefore, we are requested you to kindly go through the comments of the reviewers and revise your article as needed.

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Research Journal of Pharmacy and Technology

Paper ID: 21215101917866850 Date of Submission: 15-Feb-2021

Paper Title: **Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)**

Authors: **Ainun Sajidah*; Evi Risa Mariana; Zainab**

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Date: DD-May-YYYY, 09:26 PM

COMMENTS:

Dear Author, Pl Resubmit the article after making following corrections.. The Ref no. are not as per instruction to author. (Model Journal reference) Ballesteros B. Tobias G. Shao L. Pellicer E. Nogués J. Mendoza E. Green ML et al Steam Purification for the Removal of Graphitic Shells Coating Catalytic Particles and the Shortening of Single-Walled Carbon Nanotubes. Small. 2008; 4(9):[1501-6.doi.org/10.1021/ja061680u](https://doi.org/10.1021/ja061680u) Thanks Editor

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Ainun Sajidah <ainunsajidah@gmail.com>

Jun 20, 2021, 10:15 PM



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I have submitted the second round of my revised manuscript title *Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)* to the journal via the online submission system (14 May 2021).

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Ainun Sajidah



Research Journal of Pharmacy and Technology Monika Daharwal <editor.rjpt@gmail.com>

Jun 21, 2021, 6:32 PM



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Mon, Jun 21, 2021, 10:52 PM



Research Journal of Pharmacy and Technology

Paper ID: 21215101917866850 Date of Submission: 15-Feb-2021

Paper Title: **Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)**

Authors: **Ainun Sajidah*; Evi Risa Mariana; Zainab**

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Editorial board has considered your article titled "Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)". for publication in Year : 2022, Vol: 15, Issue: 2. You are requested to send the final version of your article by clearly mentioning the Paper Title and Author(s) name, affiliation and email address in proper sequence.

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Sumber Dana/ Source of fund Tunai/Cash Cek/BG No. Debit Rek./Debit Acc. No. 0313387976

Mata Uang/Currency : IDR USD

Bank Penerima/Beneficiary Bank : State Bank of India
 Kota/City : Mumbai Negara/Country : India
 No. Rek./Acc. No. : 30863620032

Jumlah/Amount	Kurs/Rate	Nilai/Total Amount
		USD 200,00

Pengirim/Remitter Penduduk/ Resident Bukan Penduduk/ Non Resident

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Nama/Name : Ainun Sajidah
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 No. ID : 5271044808760001
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 Alamat/Address :
 Telepon/Phone :
 Kota/City : Banjarmasin Negara/Country : Indonesia

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NO. TRX. : 89554 904403 96962 TRAN 23/06/2021 08:07:41
 NO. REK. : 000000317387976 Ibu AINUN SAJIDAH
 JUNJLH : IDR 400,000- 1568
 155 - BANJARRAU

NO. TRX. : 89554 904403 96962 TRAN 23/06/2021 08:07:41
 NO. REK. : 155360420801001 PENDAPATAN PROPISTI KU
 JUNJLH : IDR 35,000 1568
 155 - BANJARRAU

NO. TRX. : 89554 904403 96962 TRAN 23/06/2021 08:07:41
 NO. REK. : 155360482010001 Pendapatan Restitusi B
 JUNJLH : IDR 365,000 1568
 155 - BANJARRAU

NO. TRX. : 89554 904403 96962 TRAN 23/06/2021 08:07:41
 NO. REK. : 000000317387976 Ibu AINUN SAJIDAH
 JUNJLH : IDR 2,920,000- 1568
 155 - BANJARRAU

NO. TRX. : 89554 904403 96962 TRAN 23/06/2021 08:07:41
 NO. REK. : 155840200101001 KU YAKIR
 JUNJLH : USD 200 1568
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Transfer ID : 89554
Date : 23/06/2021
Time : 08:28:38

Sender's Reference:
:70:R10RRR00005621
Bank Operation Code:
:23R:CRKD
Value Date/Currency/Interbank Settled Amount:
:32A:210623USD200,
Ordering Customer:
:50K:/0000000317387976
IBU AINUN SAJIDAH
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Wed, Jun 30, 2021, 4:24 PM



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BASIC INFORMATION

Paper ID:	21215101917866850	Submission Date:	February 15, 2021
Paper Title:	Effect of Coriandrum Sativum L. on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)		
Author(s) Name:	Aimun Sajidah*, Evi Risa Mariana; Zainab		
Author(s) Email:	aimunsajidah@gmail.com; mevirisa@gmail.com; zainabzcn76@gmail.com		
Author(s) Address:	Poltekkes Kemenkes Banjarmasin, Indonesia		
Journal:	Research Journal of Pharmacy and Technology		
Submitted By:	aimunsajidah	Email ID:	aimunsajidah@gmail.com

REVIEWER INFORMATION

	First Reviewer	Second Reviewer
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Email ID:	ikhwanrizki@ulm.ac.id	normaidah@ulm.ac.id
Mobile No:	6285292465264	6285248257718
Address:	Universitas Lambung Mangkurat, Indonesia	Universitas Lambung Mangkurat, Indonesia

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Amount INR:	3540.00	OR Amount USD:	200.00
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- 🕒 15/Feb/2021, 10:19:18 AM --- Article submitted by the author.
- 🕒 20/Feb/2021, 06:35:57 PM --- Article sent back to author for minor corrections.
- 🕒 20/Feb/2021, 06:35:57 PM --- New comments from editorial board.
- 🕒 22/Feb/2021, 05:47:17 PM --- Article resubmitted by author after correction.
- 🕒 19/Mar/2021, 04:40:41 PM --- Article is sent to reviewers.
- 🕒 08/Apr/2021, 08:22:57 AM --- Review comments submitted by the reviewer.
- 🕒 08/Apr/2021, 10:28:26 PM --- Article sent back to author for minor corrections.
- 🕒 08/Apr/2021, 10:28:47 PM --- New comments from editorial board.
- 🕒 12/Apr/2021, 07:17:44 PM --- Article resubmitted by author after correction.
- 🕒 14/May/2021, 09:26:35 PM --- Article sent back to author for minor corrections.
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Research Journal of Pharmacy and Technology

Paper ID:21215101917866850

Author's Name:Ainun Sajidah*, Evi Risa Mariana, Zainab

Paper Title: Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)



Acceptance of Manuscript

With reference to your article titled '**Effect of Coriandrum Sativum L on Blood Glucose Levels among Alloxan- Diabetic Mice (Rattus norvegicus strain wistar)**' Author by **Ainun Sajidah*, Evi Risa Mariana, Zainab**. We wish to bring to your kind notice the following:

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- The above mentioned article has been sent to the reviewer of expert comments.
- The above mentioned article have been accepted for publication in Year : 2022, Vol: 15, Issue: 2 of the journal.

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Yours sincerely,



Evi Risa Mariana
Editor in Chief

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...

Jul 1, 2021, 7:11 AM



RESEARCH ARTICLE

Effect of *Coriandrum Sativum L* on Blood Glucose Levels among Alloxan-Diabetic Mice (*Rattus norvegicus strain wistar*)

Ainun Sajidah*, Evi Risa Mariana, Zainab
Poltekkes Kemenkes Banjarmasin, Indonesia

*Corresponding Author E-mail: ainunsajidah@gmail.com

ABSTRACT:

The blood glucose level of the body tends to increase slightly after the age of 50. The coriander (*Coriandrum sativum L*) is a member of the Apiaceae family and it grows in a wide range conditions and can be used as antidiabetic. The purpose of this study was to determine the effect of coriander water extract on the blood sugar levels of white rats (*Rattus norvegicus strain wistar*). The method of this study involved experimental animals, specifically 20 *Rattus norvegicus strain wistar* ranging from 150-200grams with an age between 2-3 months. The mice were injected with an alloxan solution to induce a diabetic condition and then they were divided into four groups and treated. The treatments were 0.5% Na CMC, glibenclamide 0.45mg/Kg b.w, coriander extract of 100mg/Kg b.w and coriander extract of 200mg/Kg b.w for 15 days. The blood glucose level of the mice was measured on days 0, 1, 5, 10 and 15. The results showed that the 0.5% CMC placebo had no effect in terms of reducing the glucose level of the rats, Glibenclamide 0.45mg/Kg b.w had an effect in terms of reducing the blood glucose level, as did coriander extract 100mg/Kg b.w and 200mg/Kg b.w among the alloxan-diabetic mice.

KEYWORDS: Diabetic, Blood glucose, Coriander seed, Mice, Alloxan.

INTRODUCTION:

The blood sugar refers to the concentration of glucose in the blood which is strictly regulated by the body¹. Blood sugar is the main source of energy for body cells². A fasting blood glucose level is 4-8 mmol/L/day³, this level increases after eating and the lowest level in the morning before consuming food or breakfast⁴.

The blood glucose levels tend to increase slightly after the age of 50⁵, especially in people who are inactive⁶ and obese⁷. An increase in blood glucose levels after eating or drinking stimulates the pancreas to produce insulin, thus preventing a further increase in blood glucose level and causing the blood glucose levels to decrease slowly is a positive⁴.

The coriander (*Coriandrum sativum L*) is a member of the Apiaceae family and grows in a wide range of conditions⁸.

It is commonly used as medical plant⁹. Benefits could be obtained from the leaves, seeds and fruits¹⁰. Coriander seeds are a strong flavorful spice used as an ingredient in cooking and food flavoring¹¹. The most widely used part is seed^{11,12}. There have been many studies on the efficacy of coriander in relation to being anti-fertility, anti-diabetic, anti-hyperlipidemia¹³, antioxidants, anti-convulsant and antifungal^{6,14,15}, anti-inflammatory¹⁶, antibacterial¹⁷ and to prevent leucorrhoea among women¹⁸. The chemical compounds in coriander are quercetin 3-glucuronide¹⁹, linalool, camphor, geranyl acetate, geraniol²⁰ and coumarins²¹. The aim of this study to test the anti-diabetic activity of coriander water extract using the glucose tolerance test method.

Based on this background, this study went on to measure the effect of coriander on blood sugar levels. The results describe the effect of coriander water extract on blood sugar level. Furthermore, coriander can be a potential natural ingredient source that is able to decrease high blood sugar levels.

MATERIAL AND METHODS:

All of the protocols of this study were approved by the ethical committee board from Universitas Muhammadiyah Banjarmasin, Indonesia (Number