



# Document details

< Back to results | 1 of 1

Export Download Print E-mail Save to PDF Add to List More... >

View at Publisher

Indian Journal of Public Health Research and Development  
Volume 10, Issue 1, January 2019, Pages 417-421

## Risk factors affecting attention deficit hyperactivity disorder among early childhood in the agricultural area in Indonesia (Article)

Istiklalili, F.<sup>a</sup> , Suwandono, A.<sup>b</sup>, **Suhartono, S.<sup>c</sup>**, Widyorini, E.<sup>d</sup>, Saputro, D.<sup>e</sup>

<sup>a</sup>Veterans Institute of Teacher Training & Pedagogy of Central Java, Indonesia

<sup>b</sup>University of Diponegoro, Indonesia

<sup>c</sup>Faculty of Public Health, University of Diponegoro, Indonesia

View additional affiliations

### Abstract

View references (17)

Background: ADHD ( Attention Deficit Hyperactivity Disorder ) is a behavioral disorder the most common among children. This disorder is often found in early childhood and school age. The purpose of this study was to determine the incidence and risk factors for ADHD in early childhood in agricultural areas. Method: This study used a cross-sectional design. The subjects of this study were 1,113, kindergarten students aged 5-7 years in the agricultural area of Brebes Regency, Central Java, Indonesia . The independent variables in this study were age, sex, history of preterm birth, education level and parental work, and the dependent variable is the incidence of ADHD. The multivariate logistic regression test is used to determine variables which are risk factors . Results: The study showed that from 1.113 total subjects. there were 480 (43.1%) subjects in ADHD diagnosis. History of preterm birth (OR = 1.577; 95% CI = 1.128-2.205), low father's education level (OR = 1.422; 95% CI = 1.106-1.827), low mother's education level (OR = 1.312; 95% CI = 1.008-1.708 ), parental involvement in agriculture (OR = 1.580; 95% CI = 1.231-2.028) and gender (OR = 3.126; 95% CI = 2.442-4.001) proved to be an independent risk factor for ADHD. Conclusion: The incidence of ADHD in early childhood in agricultural areas reached 43.1%. History of preterm birth, the low father education level, the parental involvement in agriculture and the male gender are independent risk factors for early childhood ADHD incidence in agricultural areas. © 2019, Indian Journal of Public Health Research and Development. All rights reserved.

### SciVal Topic Prominence

Topic: Child Development Disorders, Pervasive | Autistic Disorder | ASD prevalence

Prominence percentile: 98.221



### Author keywords

ADHD Agriculture Area Early Childhood Risk Factors

### Indexed keywords

Metrics View all metrics >



PlumX Metrics

Usage, Captures, Mentions,  
Social Media and Citations  
beyond Scopus.

Cited by 0 documents

Inform me when this document  
is cited in Scopus:

Set citation alert >

Set citation feed >

### Related documents

Role of dietary supplementation  
in attention-deficit hyperactivity  
disorder

Rajyaguru, P. , Cooper, M.  
(2013) *British Journal of  
Psychiatry*

Teachers' Experiences With and  
Perceptions of Students With  
Attention Deficit/hyperactivity  
Disorder

Lawrence, K. , Estrada, R.D. ,  
McCormick, J.  
(2017) *Journal of Pediatric  
Nursing*

Correlation between attention  
deficit hyperactivity disorder and  
sleep quality in elementary  
school students

Rachman, R.I. , Yonathan, K. ,  
Gunardi, T.  
(2017) *Advanced Science Letters*

View all related documents based  
on references

Find more related documents in  
Scopus based on:

EMTREE medical terms:

[agriculture](#) [Article](#) [attention deficit disorder](#) [autism](#) [behavior assessment](#)  
[behavior disorder](#) [child](#) [Child Behavior Checklist](#) [Comprehensive Teacher Rating Scale](#)  
[controlled study](#) [cross-sectional study](#) [education](#) [environmental factor](#) [female](#)  
[human](#) [intellectual impairment](#) [kindergarten](#) [major clinical study](#) [male](#)  
[mental disease](#) [perception](#) [premature labor](#) [preschool child](#) [prevalence](#) [questionnaire](#)  
[risk factor](#) [rural area](#) [school child](#)

## Funding details

Funding sponsor	Funding number	Acronym
Kementerian Riset Teknologi Dan Pendidikan Tinggi Republik Indonesia		

## Funding text

Source of Funding: Ministry of Research, Technology and Higher Education

ISSN: 09760245

Source Type: Journal

Original language: English




DOI: 10.5958/0976-5506.2019.00083.4

Document Type: Article

Publisher: Indian Journal of Public Health Research and Development

## References (17)

[View in search results format >](#)

All
 [Export](#)
 Print
  E-mail
  Save to PDF
 [Create bibliography](#)

- 1 Giacobini, M., Medin, E., Ahnemark, E., Russo, L.J., Carlqvist, P.  
Prevalence, Patient Characteristics, and Pharmacological Treatment of Children, Adolescents, and Adults Diagnosed With ADHD in Sweden

(2018) *Journal of Attention Disorders*, 22 (1), pp. 3-13. Cited 22 times.

<http://www.sagepub.co.uk/journal.aspx?pid=106993>

doi: 10.1177/1087054714554617

[View at Publisher](#)

- 2 Zepf, F.D., Bubenzer-Busch, S., Runions, K.C., Rao, P., Wong, J.W., Mahfouda, S., Morandini, H.A., (...), Eickhoff, S.B.  
Functional connectivity of the vigilant-attention network in children and adolescents with attention-deficit/hyperactivity disorder  
(2017) *Brain and Cognition*  
Nov 14

- 3 Thorell, L.B., Sjöwall, D., Diamatopoulou, S., Rydell, A.-M., Bohlin, G.  
Emotional functioning, ADHD symptoms, and peer problems: A longitudinal investigation of children age 6–9.5 years

(2017) *Infant and Child Development*, 26 (4), art. no. e2008. Cited 5 times.

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1522-7219](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1522-7219)

doi: 10.1002/icd.2008

[View at Publisher](#)

- 4 Hartman, C.A., Geurts, H.M., Franke, B., Buitelaar, J.K., Rommelse, N.N.J.  
Changing ASD-ADHD symptom co-occurrence across the lifespan with adolescence as crucial time window: Illustrating the need to go beyond childhood  
(2016) *Neuroscience and Biobehavioral Reviews*, 71, pp. 529-541. Cited 26 times.  
[www.elsevier.com/locate/neubiorev](http://www.elsevier.com/locate/neubiorev)  
doi: 10.1016/j.neubiorev.2016.09.003  
View at Publisher
- 
- 5 Owens, E.B., Hinshaw, S.P.  
Childhood conduct problems and young adult outcomes among women with childhood attention-deficit/hyperactivity disorder (ADHD)  
(2016) *Journal of Abnormal Psychology*, 125 (2), pp. 220-232. Cited 10 times.  
[www.apa.org/journals/abn.html](http://www.apa.org/journals/abn.html)  
doi: 10.1037/abn0000084  
View at Publisher
- 
- 6 Arnett, A.B., Pennington, B.F., Willcutt, E., Dmitrieva, J., Byrne, B., Samuelsson, S., Olson, R.K.  
A cross-lagged model of the development of ADHD inattention symptoms and rapid naming speed  
(2012) *Journal of Abnormal Child Psychology*, 40 (8), pp. 1313-1326. Cited 31 times.  
doi: 10.1007/s10802-012-9644-5  
View at Publisher
- 
- 7 Thapar, A., Cooper, M., Eyre, O., Langley, K.  
Practitioner review: What have we learnt about the causes of ADHD?  
(2013) *Journal of Child Psychology and Psychiatry and Allied Disciplines*, 54 (1), pp. 3-16. Cited 267 times.  
doi: 10.1111/j.1469-7610.2012.02611.x  
View at Publisher
- 
- 8 Grandjean, P., Landrigan, P.J.  
Neurobehavioural effects of developmental toxicity  
(2014) *The Lancet Neurology*, 13 (3), pp. 330-338. Cited 643 times.  
doi: 10.1016/S1474-4422(13)70278-3  
View at Publisher
- 
- 9 Suratman, S., Edwards, J.W., Babina, K.  
Organophosphate pesticides exposure among farmworkers: Pathways and risk of adverse health effects  
(2015) *Reviews on Environmental Health*, 30 (1), pp. 65-79. Cited 22 times.  
<http://www.degruyter.com/view/j/reveh>  
doi: 10.1515/reveh-2014-0072  
View at Publisher
- 
- 10 Dwivedi, K.N., Banhatti, R.G.  
Attention deficit/hyperactivity and ethnicity (Open Access)  
(2005) *Archives of Disease in Childhood*, 90 (SUPPL. 1), pp. i10-i12. Cited 24 times.  
doi: 10.1136/adc.2004.058180  
View at Publisher

- 11 Thapar, A., Cooper, M., Eyre, O., Langley, K.  
Practitioner review: What have we learnt about the causes of ADHD?  
(2013) *Journal of Child Psychology and Psychiatry and Allied Disciplines*, 54 (1), pp. 3-16. Cited 267 times.  
doi: 10.1111/j.1469-7610.2012.02611.x  
[View at Publisher](#)
- 
- 12 Pohlbeln, H., Rach, S., De Henauw, S., Eiben, G., Gwozdz, W., Hadjigeorgiou, C., Molnár, D., (...), Pigeot, I.  
Further evidence for the role of pregnancy-induced hypertension and other early life influences in the development of ADHD: results from the IDEFICS study  
(2017) *European Child and Adolescent Psychiatry*, 26 (8), pp. 957-967. Cited 6 times.  
<http://www.springerlink.com/content/1018-8827>  
doi: 10.1007/s00787-017-0966-2  
[View at Publisher](#)
- 
- 13 Bröring, T., Oostrom, K.J., van Dijk-Lokkart, E.M., Lafeber, H.N., Brugman, A., Oosterlaan, J.  
Attention deficit hyperactivity disorder and autism spectrum disorder symptoms in school-age children born very preterm  
(2018) *Research in Developmental Disabilities*, 74, pp. 103-112. Cited 7 times.  
[www.elsevier.com/locate/redevdis](http://www.elsevier.com/locate/redevdis)  
doi: 10.1016/j.ridd.2018.01.001  
[View at Publisher](#)
- 
- 14 Setiawan, R.  
The influence of income, experience, and academic qualification on the early childhood education teachers' creativity in Semarang, Indonesia ([Open Access](#))  
(2017) *International Journal of Instruction*, 10 (4), pp. 39-50. Cited 2 times.  
[http://www.e-iji.net/dosyalar/iji\\_2017\\_4\\_3.pdf](http://www.e-iji.net/dosyalar/iji_2017_4_3.pdf)  
doi: 10.12973/iji.2017.1043a  
[View at Publisher](#)
- 
- 15 Matza, L.S., Margolis, M.K., Deal, L.S., Farrand, K.F., Erder, M.H.  
Challenges of Developing an Observable Parent-Reported Measure: A Qualitative Study of Functional Impact of ADHD in Children ([Open Access](#))  
(2017) *Value in Health*, 20 (6), pp. 828-833. Cited 4 times.  
[http://www.elsevier.com/wps/find/journaldescription.cws\\_home/724501/description#description](http://www.elsevier.com/wps/find/journaldescription.cws_home/724501/description#description)  
doi: 10.1016/j.jval.2017.02.010  
[View at Publisher](#)
- 
- 16 (2013) *Diagnostic and Statistical Manual of Mental Disorders*. Cited 48080 times.  
Washington, DC: American Psychiatric Association
- 
- 17 Saputro, D.  
(2009) *ADHD (Attention Deficit/Hyperactivity Disorder)*. Cited 558 times.  
Jakarta: Sagung Seto

## About Scopus

[What is Scopus](#)  
[Content coverage](#)  
[Scopus blog](#)  
[Scopus API](#)  
[Privacy matters](#)

## Language

[日本語に切り替える](#)  
[切换到简体中文](#)  
[切换到繁體中文](#)  
[Русский язык](#)

## Customer Service

[Help](#)  
[Contact us](#)

---

**ELSEVIER**

[Terms and conditions ↗](#) [Privacy policy ↗](#)

Copyright © Elsevier B.V. ↗. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies.

 RELX

**SJR**

Scimago Journal &amp; Country Rank

Enter Journal Title, ISSN or Publisher Name

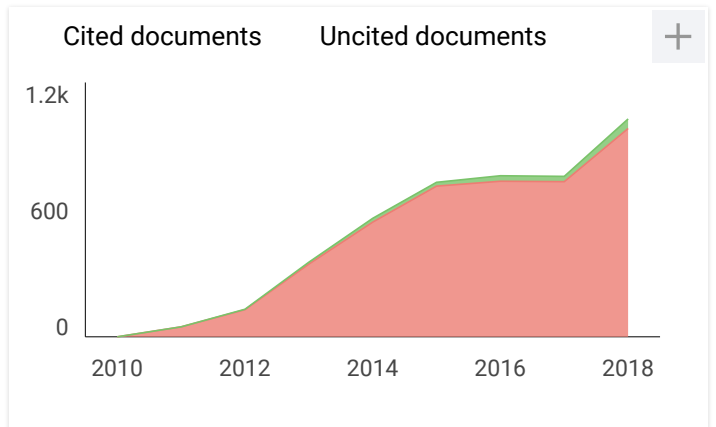
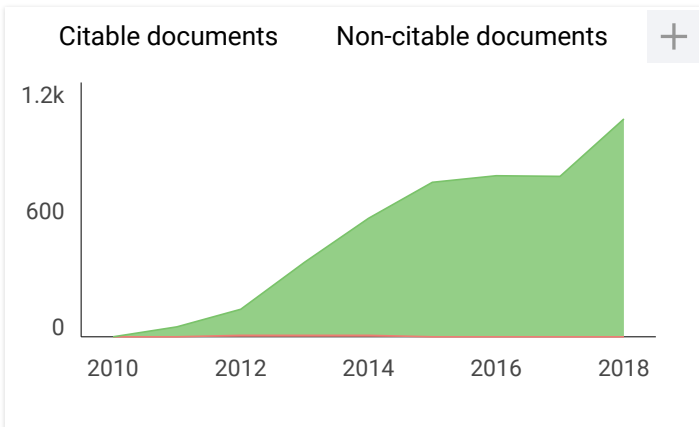
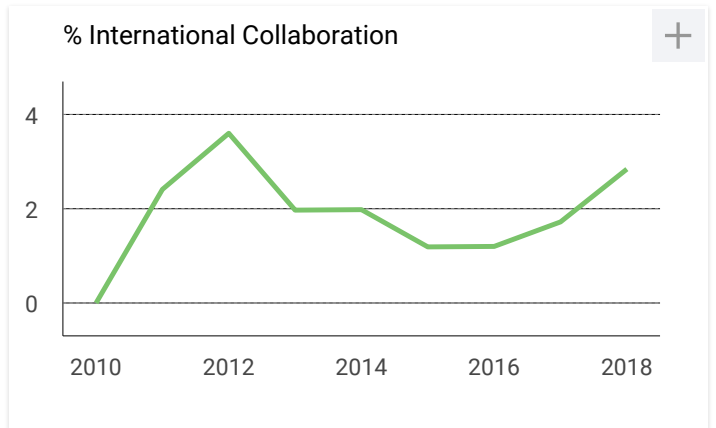
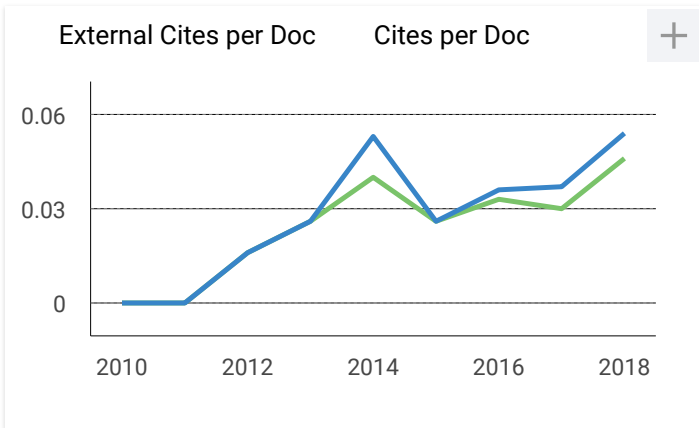
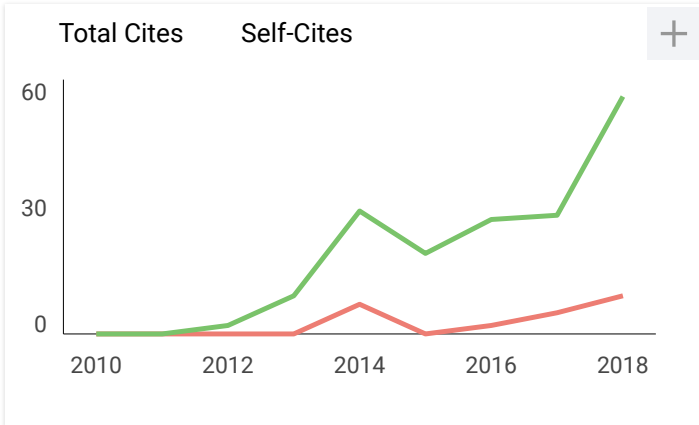
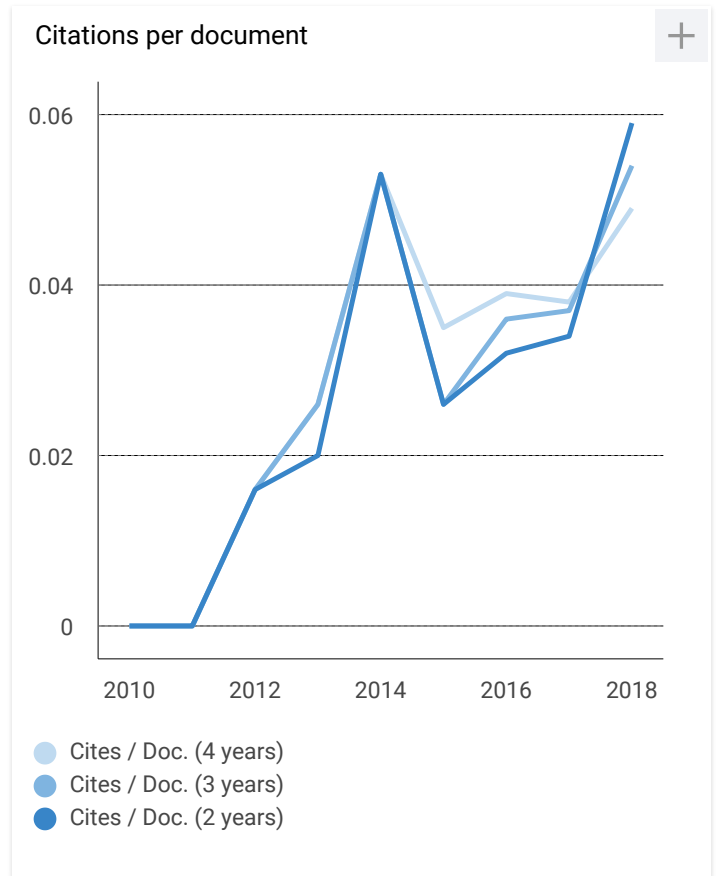
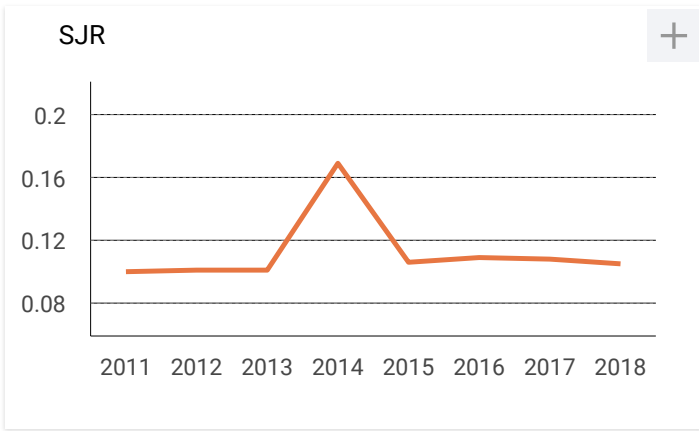
[Home](#)[Journal Rankings](#)[Country Rankings](#)[Viz Tools](#)[Help](#)[About Us](#)

# Indian Journal of Public Health Research and Development

<b>Country</b>	<a href="#">India</a> - <a href="#">SIR Ranking of India</a>	<b>7</b>
<b>Subject Area and Category</b>	<a href="#">Medicine</a> <a href="#">Public Health, Environmental and Occupational Health</a>	
<b>Publisher</b>	<a href="#">R.K. Sharma, Institute of Medico-Legal Publications</a>	H Index
<b>Publication type</b>	Journals	
<b>ISSN</b>	09765506, 09760245	
<b>Coverage</b>	2010-ongoing	
<b>Scope</b>	Indian Journal of Public Health Research & Development is a double blind peer reviewed international journal. The frequency is half yearly going to be quarterly by 2012. It deals with all aspects of Public Health including Community Medicine, Public Health, Epidemiology, Occupational Health, Environmental Hazards, Clinical Research, and Public Health Laws and covers all medical specialties concerned with research and development for the masses. The journal strongly encourages reports of research carried out within Indian continent and South East Asia.	
	<a href="#">Homepage</a> <a href="#">How to publish in this journal</a> <a href="#">Contact</a> <a href="#">Join the conversation about this journal</a>	

Quartiles





Show this widget in your own website

**Indian Journal of Public Health Research and...**

**Q4** Public Health, Environmental and Occupational...  
best quartile

**SJR 2018**  
**0.11**



powered by scimagojr.com

← Just copy the code below and paste within your html code:

```
<a href="https://www.scimaç
```



Loading comments...

Developed by:



Powered by:



Follow us on @ScimagoJR

Scimago Lab, Copyright 2007-2020. Data Source: Scopus®

**EST MODUS IN REBUS**  
Horatio (Satire 1,1,106)





# Indian Journal of Public Health Research & Development

An International Journal

[Home](#)

[Editorial Team](#)

[Article Submission](#)

[Subscriptions Informations](#)

[Publication Ethics](#)

[Contact Us](#)



## Indian Journal of Public Health Research & Development

An International Journal

"The online issues are

### ABOUT US



**Indian Journal of Public Health Research & Development** is a double blind peer reviewed international journal. The frequency is monthly from 2019. It deals with all aspects of Public Health including Community Medicine, Public Health, Epidemiology, Occupational Health, Environmental Hazards, Clinical Research, and Public Health Laws and covers all medical specialties concerned with research and development for the masses. The journal strongly encourages reports of research carried out within Indian continent and South East Asia.

The journal has been assigned International Standards Serial Number (ISSN) Print ISSN: 0976-0245, Online ISSN: 0976-5506 and is indexed with Index Copernicus (Poland). It is also brought to notice that the journal is being covered by many international databases. The journal is covered by EBSCO (USA), Embase, EMCare & Scopus database. The journal is now part of DST, CSIR, and UGC consortia.

**We have pleasure to inform you that our journal is covered for faculty promotion in relation to MCI letter dated 3-9-2015 regarding indexing of journals. This journal qualifies the criteria as it is indexed in EMBASE Scopus till date. (Proof can be submitted on request) This journal was covered by Index Copernicus till 2010. It has been again submitted to Index Copernicus and likely to cover soon.**

#### SCOPUS IJPHRD CITATION SCORE

**Indian Journal of Public Health Research and Development Scopus coverage years:from 2010 to Present Publisher:R.K. Sharma, Institute of Medico-Legal PublicationsISSN:0976-0245E-ISSN:0976-5506Subject area:Medicine: Public Health, Environmental and Occupational Health**

CiteScore 2015- 0.02

SJR 2015- 0.105

SNIP 2015- 0.034

**Click on the link for scopus**

[https://www.scopus.com/sourceid/19700188435?origin=sbrowse:](https://www.scopus.com/sourceid/19700188435?origin=sbrowse)

Email: [editor.ijphrd@gmail.com](mailto:editor.ijphrd@gmail.com)

Website: [www.ijphrd.com](http://www.ijphrd.com)

---

**OUR CONTACT INFO:****Institute of Medico-Legal Publications**

Logix Office Tower, Unit No. 1704, Logix City Centre Mall

Sector- 32, Noida - 201 301 (Uttar Pradesh)

Tel no: +91 - 09971888542

Email: [editor.ijphrd@gmail.com](mailto:editor.ijphrd@gmail.com)

Website: [www.ijphrd.com](http://www.ijphrd.com)

**Visit our Website:** [www.imlp.in](http://www.imlp.in)

---



# Indian Journal of Public Health Research & Development

An International Journal

Home

Editorial Team

Article Submission

Subscriptions Informations

Publication Ethics

Contact Us



## Indian Journal of Public Health Research & Development

An International Journal

### EDITORIAL PANEL



#### Executive Editor

Vidya Surwade

Associate Professor, Dr Baba Saheb Ambedkar, Medical College & Hospital Rohinee, Delhi

E-mail: [editor.ijphrd@gmail.com](mailto:editor.ijphrd@gmail.com)

[editor.ijphrd@gmail.com](mailto:editor.ijphrd@gmail.com)

#### International Editorial Advisory Board

- Dr Abdul Rashid Khan B. Md Jagar Din,  
Associate Professor, Department of Public Health Medicine,  
Penang Medical College, Penang , **Malaysia**
- Dr V Kumar,  
Consulting Physician, Mount View Hospital, Las Vegas , **USA**
- Basheer A. Al-Sum ,  
Botany and Microbiology Deptt , College of Science,  
King Saud University, Riyadh, **Saudi Arabia**
- Dr Ch Vijay Kumar,  
Associate Professor, Public Health and Community Medicine,  
University of Buraimi, Oman
- Dr VMC Ramaswamy,  
Senior Lecturer, Department of Pathology,  
International Medical University, Bukit Jalil, Kuala Lumpur
- Kartavya J. Vyas ,  
Clinical Researcher, Department of Deployment Health Research,  
Naval Health Research Center, San Diego, CA (USA)
- Prof PK Pokharel,  
Community Medicine,  
BP Koirala Institute of Health Sciences, **Nepal**
- Sajjad Salim Issa AL-Musawi  
supervisor for student of the Arab board in family medicine
- Prof. Dr. Ayad F. Alkaim  
Professor of surface chemistry and applications of nano-materials, Babylon  
University, **Iraq**

- Prof. Dr. Imad Hadi Hameed  
Biomedical Science Department, College of Nursing, University of Babylon,  
Hillah city, Iraq
  - Prof. Dr. Amean A Yasir.  
Department of Community , College of Nursing, University of Babylon, Hillah  
city, Iraq
- 

#### **National Editorial Advisory Board**

- Prof. Sushanta Kumar Mishra, Community Medicine, GSL Medical College –  
Rajahmundry, Karnataka
  - Prof D.K.Srivastava,  
Medical Biochemistry,  
Jamia Hamdard Medical College, New Delhi
  - Dr Sunil Mehra,  
Paediatrician & Executive Director,  
MAMTA Health Institute of Mother & Child, New Delhi
  - Prof M.Sriharibabu ,  
General Medicine ,  
GSL Medical College , Rajahmundry , Andhra Pradesh
  - Prof Pankaj Datta,  
Principal & Prosthodontist,  
Indraprastha Dental College , Ghaziabad
  - Prof Samarendra Mahapatro,  
Pediatrician,  
Hi-Tech Medical College, Bhubaneswar, Orissa
  - Dr Abhiruchi Galhotra,  
Additional Professor, Community and Family Medicine,  
AII India Institute of Medical Sciences, Raipur
  - Prof Deepti Pruthvi,  
Pathologist,  
SS Institute of Medical Sciences & Research Center. Davangere, Karnataka
  - Prof G S Meena,  
Director Professor,  
Maulana Azad Medical College, New Delhi
  - Prof Pradeep Khanna,  
Community Medicine,  
Post Graduate Institute of Medical Sciences, Rohtak , Haryana
  - Dr Shailendra Handu  
Associate professor, Pharma , DM (Pharma, PGI Chandigarh)
  - Dr. A.C. Dhariwal  
Directorate of National Vector Borne Disease Control Programme,  
Dte. DGHS, Ministry of Health Services, Govt. of India, Delhi.
- 

#### **National Scientific Committee**

- Dr Anju Ade,  
Professor,  
Community Medicine Department,  
SVIMS, Sri Padamavati Medical College,  
Tirupati. Andhra Pradesh.
- Dr.E.Venkata Rao,  
Associate Professor, Community Medicine,  
Institute of Medical Sciences & SUM Hospital, Bhubaneswar, Orissa.
- Dr. Amit K. Singh,  
Associate Professor, Community Medicine,  
VCSG Govt. Medical College, Srinagar – Garhwal, Uttarakhand
- Dr R G Viveki,  
Prof n head,

Dept of Community Medicine,  
BIMS Belgavi

- Dr. Santosh Kumar Mulage,  
Assistant Professor, Anatomy,  
Raichur Institute of Medical Sciences Raichur(RIMS) , Karnataka
- Dr Gouri Ku. Padhy,  
Associate Professor, Community and Family Medicine,  
AII India Institute of Medical Sciences, Raipur
- Dr Ritu Goyal,  
Associate Professor, Anaesthesia ,  
Sarswathi Institute of Medical Sciences, Panchsheel Nagar
- Dr. Anand Kalaskar,  
Associate Professor, Microbiology  
Prathima Institute of Medical Sciences , AP
- Dr.Md.Amirul Hassan ,  
Associate Professor, Community Medicine  
Government Medical College, Ambedkar nagar, UP
- Dr.N.Girish,  
Associate Professor, Microbiology,  
VIMS&RC, Bangalore
- Dr BR Hungund,  
Associate Professor Pathology,  
JNMC ,Belgaum.
- Dr Sartaj Ahmad  
PhD Medical Sociology  
Associate Professor  
Swami Vivekananda Subharti University Meerut UP India
- Dr Manoj Kumar Tripathi  
(Associate Professor),  
Political Science and public administration,  
Swami Vivekananda Subharti University,  
Meerut, Uttar Pradesh, India.
- Dr Sumeeta Soni,  
Associate Professor,  
Microbiology Department,  
B.J. Medical College,  
Ahmedabad  
Gujarat,India

---

**OUR CONTACT INFO:****Institute of Medico-Legal Publications**

Logix Office Tower, Unit No. 1704, Logix City Centre Mall

Sector- 32, Noida - 201 301 (Uttar Pradesh)

Tel no: +91 - 09971888542

Email: [editor.ijphrd@gmail.com](mailto:editor.ijphrd@gmail.com)

Website: [www.ijphrd.com](http://www.ijphrd.com)

---

Visit our Website: [www.imlp.in](http://www.imlp.in)

---

[Home](#)[Browse](#)[Price List](#)[Login](#)

IP: 182.255.4.249)



## Search Result

Results: 248 |

[Refine Result](#)

Page Size: 30

Pg. 3

of 9

[Go](#)[Latest Date](#)

### 61. The Effectiveness of Extract Klika Streculiapopulifolia Cream on the Collagen of Albino Mice against Ultraviolet B Radiation

Khairi Nur, As'ad Suryani, Djawad Khairuddin, Alam Gemini

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 309-314, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

### 62. Polymerase Chain Reaction (PCR) Method for Identification Gene Escherichia coli and Officer Depot Behavior in Drinking Water Refill

Baharuddin Alfina

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 315-320, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

### 63. Assessment of Eu-152 Nuclide Contaminated from Radioactive lightning Rods in Soil Samples at Kasra and Atash in Baghdad

Kadhim Suha Hadi, Zgair Inass Abdulah, Dosh Rukia Jaber, Rasheed Leith Hani, Abojassim Ali Abid

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 321-325, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

### 64. Increased Expression of Interleukin 13 in Iraqi Patients Suffer from Ulcerative Colitis

Eidan Ali J., Haloob Haider M., Alazawy Kalid N., Hasan Ali M.

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 326-331, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

### 65. The Protective Role of Hydatid Cyst against Colorectal Cancers

Mohammed Asmaa Murtadha, Hamza Dhamiaa Makki, Mohammed Sabah Neamah

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 332-336, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

### 66. Pulp Response Capped by Brain Derived Neurotrophic Factor (BDNF)

Al-Hijazi Athraa Y., Ali Mukhaled L, Hasan Dhuha M, Al-shamma Abdulla MW

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 337-340, Published: Jan 2019

**67. Quality of Food Bacteria in School Snacks and Canteens in East Jakarta Health Office Working Area in 2017**

Makkau Bukroanah Amir, Djaja I Made, Hartono Budi

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 341-345, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)**68. Borax Content in Foods Sold in a Campus and Its Trader Characteristics**

Fauzi Fany Saymona, Susanna Dewi

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 346-349, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)**69. The Condition of Sanitation Facilities with Escherichia coli Contamination on Food at University Cafeteria 2015**

Simangunsong Bellini, Susanna Dewi

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 350-353, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)**70. Method and Frequency of Stethoscope Cleaning among Respiratory Therapists in Intensive Care Units at KAMC, Riyadh**

Al-Shahry Fayz S., Al-Enazi Fahad Holil, Al-Naam Nawaf Abdul-alkarim, Aloraibi Saleh

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 354-357, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)**71. Hepatoprotective Effect of Bromelain against Gentamicin-Induced Hepatic Damage in Rats**

Murad Hawraa M., Faris Jawad Kadhim, Naji Hawraa H., al-bawi Firas Hussein Kadhim, Ibrahim Nadya Jamal

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 358-363, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)**72. Acute Appendicitis Versus Ruptured Ovarian Cyst in Female Patients Presented as Acute Abdomen Pain**

Aziz Wisam Mahmood, Fawzi Hayder Adnan

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 364-367, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)**73. Effects of Health Promotion Behavior, Self-Esteem and Social Participation Activities on Life Satisfaction of Elderly Men**

Lee A Reum, Kim Hee Kyung

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 368-373, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)**74. Change of Brief Psychiatric Rating Scale (BPRS) Value with Spiritual Qur'anic Emotional Freedom Technique (SQEFT) Therapy on Mental Disorder Patient**

Rosyanti Lilin, Hadi Indriono, Tanra Jayalangkara, Islam Asadul, Natzir Rosdiana, Massi Muhammad Nasrum, Idrus Faizal, Bahar Burhanuddin

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 374-378, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)**75. An Empirical Analysis Research on the Characteristics of Elderly Welfare Organizations on Job Fit and Contextual Performance**

Yun Il-Hyun

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH &amp; DEVELOPMENT

10(1) Pg: 379-384, *Published: Jan 2019* [Buy PDF](#) | [Preview](#)

## 76. A Study on the Effect of Job Performance on Emotional Labor, Career Turnover Intention, Job Stress, Growth Need

Yun Il-Hyun

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 385-390, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 77. Application of Digital Rubbing Massage in Pain Level, Comfort, and Duration of Labor Phase

Sudirman , Sumarni , Hartati , Hendra M., Rajiani Ismi

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 391-395, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 78. Using Propensity Score Bootstrapping on Determining the Model of the HIV/AIDS Patients' Assistance

Mahdalena , Mahpolah , Rajiani Ismi

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 396-400, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 79. ARCS Module (Attention, Relevance, Confidence, Satisfaction) to Increase Classroom Motivation for Pregnant Women at Public Health Center

Ramie Agustine, Mahdalena , Hammad , Rajiani Ismi

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 401-405, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 80. Interprofessional Education Module in Achieving Ethics/Values, Roles, Responsibilities, Professional Communication Competencies, and Team Collaboration among the College of Health Students

Triana Neny, Rajiani Ismi

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 406-408, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 81. Anxiety Level of Dental Care among Adolescents in Kepulauan Selayar District

Astuti Lilies Anggarwati, Nurnaeni , Umar Faiqah, Tahir Hasanuddin, Amin Asmawati

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 409-412, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 82. Baby Massage With Common Cold Massage Oil on Temperature Change, Pulse Rate, Frequency of Breath, Sleep Quality and Number of Streptococcus Bacteria in Toddlers with Acute Respiratory Infection

Nurul W Melyana, Malikhah Fatatu, Suprihatin Kusmini, Sutarmi

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 413-416, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 83. Risk Factors Affecting Attention Deficit Hyperactivity Disorder among Early Childhood in the Agricultural Area in Indonesia

Istiklaili F., Suwandono A., **Suhartono S.**, Widyorini E., Saputro D.

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 417-421, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 84. Maternal and Neonatal Outcomes of Elective and Emergency Cesarean Sections

Mohammed Esraa Abdulkareem

INDIAN JOURNAL OF PUBLIC HEALTH RESEARCH & DEVELOPMENT

10(1) Pg: 422-427, Published: Jan 2019

 [Buy PDF](#) | [Preview](#)

## 85. Comorbidities of Phototherapy Used in Neonatal Jaundice in Diyala Governorate, Iraq

All rights reserved. Site designed and maintained by  
DIVA ENTERPRISES PVT. LTD



[Home \(ijor.aspx\)](#)
[About us \(ijor.aspx?target=about\\_us\)](#)
[My Profile \(ijor.aspx?target=users\\_zone\)](#)
[Registration \(ijor.aspx?target=register\)](#)
[Products](#)

[Article Submission \(ijor.aspx?target=manuscript\\_submission\)](#)
[Usage Statistics \(https://www.mpsinsight.com/ijc\)](#)
[Price List 2020 \(../JournalsPriceList.aspx\)](#)

[Contact Us \(ijor.aspx?target=contact\\_us\)](#)
[Tutorial](#)

[Login/Register \(Ijor\\_homemenucontrol/#\)](#)

Email id


<http://www.ijphrd.com>

Journal Home (?target=ijor:ijphrd&type=home)

Current Issue (?target=ijor:ijphrd&type=current\_issue)

Archive / Issues (?target=ijor:ijphrd&type=archive)

TOC (?target=ijor:ijphrd&volume=10&issue=1&type=toc)

Registration (?target=register)

Editorial Board (?target=ijor:ijphrd&volume=10&issue=1&type=eboard)

Aims & Scope (?target=ijor:ijphrd&type=aimscope)

Author

Guidelines (?target=ijor:ijphrd&volume=10&issue=1&type=for\_authors)

News & Events (?target=ijor:ijphrd&type=newsnews)

Subscribe TOC

Alerts (?target=ijor:ijphrd&type=alerts)

Indian Journal of Public Health Research & Development

Year : 2019, Volume : 10, Issue : 1

First page : ( 417) Last page : ( 421)

Print ISSN : 0976-0245. Online ISSN : 0976-5506.

Article DOI : [10.5958/0976-5506.2019.00083.4](http://dx.doi.org/10.5958/0976-5506.2019.00083.4) (<http://dx.doi.org/10.5958/0976-5506.2019.00083.4>)

## Risk Factors Affecting Attention Deficit Hyperactivity Disorder among Early Childhood in the Agricultural Area in Indonesia

Istiklaili F.<sup>1,\*</sup>, Suwandono A.<sup>2</sup>, **Suhartono S.**<sup>3</sup>, Widyorini E.<sup>4</sup>, Saputro D.<sup>5</sup>

<sup>1</sup>Veterans Institute of Teacher Training & Pedagogy of Central Java, Indonesia

<sup>2</sup>Post Graduate Program of Epidemiology, University of Diponegoro, Indonesia

<sup>3</sup>Faculty of Public Health, University of Diponegoro, Indonesia

<sup>4</sup>Faculty of Psychology, Soegijapranata Catholic University, Indonesia

<sup>5</sup>Smart Kid Clinic-Child Developmental and Learning Difficulties Center, Jakarta, Indonesia

\*Corresponding Author: Istiklaili F. Veterans Institute of Teacher Training & Pedagogy of Central Java, Indonesia, Email: [istiklaili@gmail.com](mailto:istiklaili@gmail.com) (<mailto:istiklaili@gmail.com?cc=gbehal@indianjournals.com>)

Online published on 21 February, 2019.

### Abstract

#### Background

ADHD (Attention Deficit Hyperactivity Disorder) is a behavioral disorder the most common among children. This disorder is often found in early childhood and school age. The purpose of this study was to determine the incidence and risk factors for ADHD in early childhood agricultural areas.

#### Method

This study used a cross-sectional design. The subjects of this study were 1,113 kindergarten students aged 5–7 years in the agricultural area of Brebes Regency, Central Java, Indonesia. The independent variables in this study were age, sex, history of preterm birth, education level and parental work, and the dependent variable is the incidence of ADHD. The multivariate logistic regression test is used to determine variables which are risk factors.

#### Results

The study showed that from 1,113 total subjects, there were 480 (43.1%) subjects in ADHD diagnosis. History of preterm birth (OR = 1.577; 95% CI = 1.128–2.205), low father's education level (OR = 1.422; 95% CI = 1.106–1.827), low mother's education level (OR = 1.312; 95% CI = 1.008–1.708), parental involvement in agriculture (OR = 1.580; 95% CI = 1.231–2.028) and gender (OR = 3.126; 95% CI = 2.442–4.001) proved to be an independent risk factor for ADHD.

#### Conclusion

The incidence of ADHD in early childhood in agricultural areas reached 43.1%. History of preterm birth, the low father education level, parental involvement in agriculture and the male gender are independent risk factors for early childhood ADHD incidence in agricultural areas.

### Keywords

ADHD, Risk Factors, Early Childhood, Agriculture Area.

[Buy Now](#) (2)

[PDF](#) (2)

[target=ijor:ijphrd&volume=10&issue=1&article=084&type=subscribearticle](#)
[target=ijor:ijphrd&volume=10&issue=1&article=084&type=](#)

[Site map \(ijor.aspx?target=site\\_map\)](#)
[Privacy Policy \(ijor.aspx?target=privacy\\_policy\)](#)
[Copyright \(ijor.aspx?target=copyright\\_disclaimer\)](#)
[Terms & Conditions \(ijor.aspx?target=terms\)](#)
[Page Rank](#)

(<http://www.prchecker.info/>)

446,668,887 visitor(s) since 30<sup>th</sup> May, 2005.

All rights reserved. Site designed and maintained by DIVA ENTERPRISES PVT. LTD. (<http://www.divan.in>).

Note: Please use Internet Explorer (6.0 or above). Some functionalities may not work in other browsers.