

# 29.pdf

*by*

---

**Submission date:** 24-Apr-2023 09:00PM (UTC+0700)

**Submission ID:** 2074016443

**File name:** 29.pdf (6.27M)

**Word count:** 201788

**Character count:** 1095014

1 See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/369860953>

# Meta Study of the Relationship between Knowledge and Incentives with Posyandu Cadre Performance

2 Article in *Indian Journal of Forensic Medicine and Toxicology* · April 2023  
DOI: 10.37506/ijfme.v19i2.17939

CITATIONS  
0


READS  
7

5 authors, including:

 Syamsul Arifin  
96 PUBLICATIONS 120 CITATIONS  
[SEE PROFILE](#)

 Ari Yunanto  
Universitas Lambung Mangkurat  
34 PUBLICATIONS 110 CITATIONS  
[SEE PROFILE](#)

 Eko Suhartono  
Universitas Lambung Mangkurat  
131 PUBLICATIONS 570 CITATIONS  
[SEE PROFILE](#)

 Fauzie Rahman  
Universitas Lambung Mangkurat  
68 PUBLICATIONS 320 CITATIONS  
[SEE PROFILE](#)

Some of the authors of this publication are also working on these related projects:

 Maternal and Newborn Health [View project](#)

 PROGRAM JAMINAN KESEHATAN NASIONAL DARI ASPEK SUMBER DAYA MANUSIA PELAKSANA PELAYANAN KESEHATAN [View project](#)

All content following this page was uploaded by Syamsul Arifin on 07 April 2023.

The user has requested enhancement of the downloaded file.

ISSN-0973-9122 (Print) • ISSN-0973-9130 (Electronic)

Volume 16 / Number 2 / April-June 2022



# Indian Journal of Forensic Medicine & Toxicology

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

Official Organ of Indian Association of Medico-Legal Experts (Regd.)

# Indian Journal of Forensic Medicine & Toxicology

## Editor in Chief

**Prof. SK Dhattarwal**

Forensic Medicine, PGIMS, Rohtak, Haryana

### INTERNATIONAL EDITORIAL ADVISORY BOARD

1. **Prof Mete Gulmen** Cukurova University, TURKEY
2. **Prof. Leandro Duarte De Carvalho**, Minas Gerais, Belo Horizonte, Brazil
3. **Prof. Donata Favretto** (Full Professor) Forensic Toxicology at University of Padova, Italy
4. **Prof. Babak Mostafazadeh** Department of Forensic Medicine & Toxicology, Shahid Beheshti University of Medical Sciences, Tehran-Iran
5. **Prof Halis Dokgoz**, Mersin University, TURKEY
6. **Prof Jozef Sidlo**, Comenius University, Bratislava, SLOVAKIA
7. **Dr. Rahul Pathak** (Lecturer) Forensic Science, Dept of Life Sciences Anglia Ruskin University, Cambridge, United Kingdom
8. **Dr. Hareesh** (Professor & Head) Forensic Medicine, Ayder Referral Hospital, College of Health Sciences, Mekelle University, Mekelle Ethiopia East Africa
9. **Dr. Mokhtar Ahmed Alhrani** (Specialist) Forensic Medicine & Clinical Toxicology, Director of Forensic Medicine Unit, Attorney General's Office, Sana'a, Yemen
10. **Dr. Sarathchandra** Kodikara (Senior Lecturer) Forensic Medicine, Department of Forensic Medicine, Faculty of Medicine, University of Peradeniya, Sri Lanka
11. **Dr Noha A. Magdie El Rafie**, Forensic Toxicology, Ain Shams University, Cairo, EGYPT

### SCIENTIFIC COMMITTEE

1. **Prof Udai Pratap Singh**, Department of Anthropology Lucknow University Lucknow
2. **Dr Anil Rahule** (Associate Professor) Dept of Anatomy, Govt Medical College Nagpur
3. **Dr Shankar Bakkanwar** (Associate Professor) Forensic Medicine, Kasturba Medical College, Manipal, Karnatakad
4. **Dr K. Ravikumar** Raksha Shakti University, Ahmedabad, Gujrat.
5. **Dr. Pragnesh Parmar** (Associate Professor) Forensic Medicine, Valsad, Gujrat
6. **Dr Vandana Mudda** (Awati) (Associate Prof) Dept of FMT, M.R.Medical College, Gulbarga, Karnataka.
7. **Dr. Asha Srivastava** (Senior Scientific Officer) Forensic Psychology, Central Forensic Science Laboratory, CBI, Delhi
8. **Dr. Lav Kesharwani** (Asst.Prof.) School of Forensic Science, Sam Higginbottom Institute of Agriculture Technology & Sciences, Allahabad U.P.

"Indian Journal of Forensic Medicine & Toxicology" is peer reviewed quarterly journal. It deals with Forensic Medicine, Forensic Science, Toxicology, DNA fingerprinting, sexual medicine and environment medicine. It has been assigned International standard serial No. p-0973-9122 and e-0973-9130. The Journal has been assigned RNI No. DELENG/2008/21789. The journal is covered by EMBASE (Excerpta Medica Database). The journal is also abstracted in Chemical Abstracts (CAS) database (USA). The journal is also covered by EBSCO (USA) database. It is now official publication of Indian Association of Medico-Legal Experts (Regd.).

9. **Dr. Anu Sharma** (Associate Prof) Dept of Anatomy, DMCH, Ludhiana (PB)
10. **Dr. Shalini Gupta** ( Prof ) Oral Pathology and Microbiology, Dental Sciences King George Medical University, Lucknow, UP
11. **Dr Rituja Shama**, Associate Prof, Law Banasthali Vidyapeeth Jaipur

### NATIONAL EDITORIAL ADVISORY BOARD

#### Chairman

**Prof Sudhir K Gupta** - Head, Department of Forensic Medicine All India Institute of Medical Sciences, New Delhi

#### Members

1. **Prof. N K Aggrawal** Forensic Medicine, UCMS, Delhi
2. **Prof Ajay Ghangale** Forensic Medicine Dr DY Patil Medical College, Pune, Maharashtra
3. **Dr. Amar Jyoti Patwory** Professor, Forensic Medicine NEIGRIHMS, Shillong
4. **Dr S. Venkata Raghava** Professor, Forensic Medicine, Bangalore Medical College, Bengaluru
5. **Prof Praveen Arora**, Professor Department of Forensic Medicine & Toxicology, SAIMS, Indore
6. **Dr. Pankaj Datta** (Principal & Head) Department of Prosthodontics, Indraprastha Dental College & Hospital, Ghaziabad
7. **Dr. Mahindra Nagar** (Head) Department of Anatomy, UCMS & GTB Hospital, Delhi
8. **Dr. Virender Kumar Chhoker** Professor Forensic Medicine and Toxicology, Santosh Medical College, Ghaziabad, UP
9. **Dr. Dayanand G Gannur** (Professor) Department of Forensic Medicine & Toxicology, Shri BM Patil Medical College, Hospital & Research centre, Bijapur, Karnataka
10. **Dr. Alok Kumar** Professor Department of Forensic Medicine & Toxicology, UP Rural Institute of Medical Sciences and Research, Saifai, Etawah, U.P.

Print-ISSN:0973-9122 Electronic - ISSN: 0973-9130

Frequency: Quarterly, © All Rights reserved The views and opinions expressed are of the authors and not of the Indian Journal of Forensic Medicine & Toxicology. Indian Journal of Forensic Medicine & Toxicology does not guarantee directly or indirectly the quality or efficacy of any products or service featured in the advertisement in the journal, which are purely commercial.

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

#### Published at

**Institute of Medico-legal Publications**

Logix Office Tower, Unit No. 1704, Logix City Centre Mall, Sector-32, Noida - 201 301 (Uttar Pradesh)



1. Comparative Study between Variable Computer Printed Documents to Identify the Type of the Producing Output Devices ..... 1  
*Abeer Sayed Abdo Boraie, Yasser Fouad Abd El-Monem Al-Akid, Khaled Abd El-Azeem Mahmoud Tamim, Nesrine Abd El-Rahman Mahmoud*
2. A Correlation Study between Fingerprints and Lip Prints among Twins..... 11  
*M.Sugatha, R.Jenifer Jacqueline, M.Taqiuddinkhan*
3. Demographic Study of Blunt Trauma Chest in Varanasi Region ..... 20  
*Roopam Mourya, S.K.Pandey, S.K. Bhartiya*
4. Legal Aspects of Maternity Nurses performing Childbirth Assistance Measures in the Framework of Carrying Out Doctor's Duties Against the Birth Process in Breach Locations ..... 27  
*Makhfudli, Gregory Agung Himawan, Nisa Amaliya Variansyah, Mokhamad Khoirul Huda*
5. Isolation and Identification of Salmonella typhimurium in an Umbilical Area from Chicks in Kerbala City ..... 35  
*Mustafa Mahmood Naema Al-taeend, Sahar Mahdi Hayyawi Al-Rubay*
6. The Effect of Hypertension as a Comorbid Factor on the Length of Stay in Patients Undergoing Cholecystectomy ..... 42  
*Albertus Magnus Arya Abisatya, Diah Purwaningsari, Wahyu Prasasti Mutiadesi, Redemptus Yudadi*
7. Prostate Specific Antigen as Predictive Factor for Androgenemia in Women ..... 49  
*Ali Mohammed Mooshly AL-Bahadly, Maytham Khazza Kadhim AL-Behadili, Mohammed Shakir Atiyah*
8. The Effect of ARV on Rate of HIV Vertical Transmission from Exclusive Breastfeeding Mothers: A Systematic Review ..... 56  
*Amanah Fatmadani Suwarno, Dwiyantri Puspitasari, Pudji Lestari*
9. The Possible Effect of Celastrol on Ameliorating Mitochondrial Dysfunction and Neuro-inflammation in Sodium Valproate Induced- Rat Model of Autism..... 65  
*AmlAlaa El-Din El-Sayed Ahmed, Samia Hussien Abou El-Seoud, Fleur Fathi Abdel Moneim, Rasha Osama El-Esawy*
10. The Effectiveness of Facet Joint Local Corticosteroid Injection in Diagnosis and Treatment of Facet Joint Syndrome..... 77  
*Amr Sabry AlBakry, Ahmed Saleh ElSayed, Hamada Mostafa AbdulAal, ElSaid Hamdy Zaki*



## II

11. The Management of Giant Cell Arteritis (GCA) Overlapping with Sjogren Syndrome : A Case Report.....87  
*Arina Mana Sikana, Awalia*
12. Smart Materials- A Review..... 94  
*Arpit Arora, Anushka Arora, Karthik Shetty*
13. Effect of Oxytocin Augmentation on Neonatal Bilirubin Levels : A Case Control Study ..... 101  
*Jitendra Shukla, Piyusha Chandrayan, Piyusha Chandrayan*
14. Study of Working Hours of Indonesian Civil Servant Doctors in Relation to the Rule of Three Licenses for Practice and Labor Law..... 105  
*Noviana Indarti, SherlyIntan, Sylvia Meylinda, Tagor Sibarani, Mokhamad Khoirul Huda*
15. Profile of Pneumocystis JiroveciiPneumoia in HIV/AIDS Patients in Dr. Soetomo General Hospital of East Java Province..... 115  
*Pius Sebastian Ginting, Bramantono, RestiYudhawati Meliana, Musofa Rusli*
16. Early Childhood Malnourishment and its Associated Factors - Uttarakhand..... 122  
*Pratiti Haldar, Lekha Viswanath, Ashok Kumar Srivastava*
17. A Quasi-Experimental Study to Assess the Effectiveness of Guided Imagery Therapy on Infertility Related Stress and Quality of Life among Infertile Women..... 129  
*Priyanka Christian, Sapna Bhavin Patel, Anjali Tiwari*
18. Meta Study of the Relationship between Knowledge and Incentives with Posyandu Cadre Performance ..... 139  
*Arjan Arkasi, Syamsul Arifin, Ari Yunanto, Eko Suhartono, Fauzie Rahman*
19. Comparing Walking age, Receptive and Expressive Language Profiles between Speech Delay Children with and without Hearing Loss ..... 143  
*Aulia Sakinah, Nyilo Purnami, Thkl K, Nuniek Nugraheni S, Sulistiawati*
20. Association of Plasma Interferon-a(IFN-a) with C-Reactive Protein (CRP) Level and Disease Activity in Systemic Lupus Erythematosus (SLE) Patients..... 151  
*Awalia, Harianto Notopuro, Joewono Soeroso*
21. Assessment of Factors Influencing Uptake of National Programme on Immunization among People in Chanchaga L.G.A., Niger State, Nigeria ..... 158  
*Baba A. Dare, Muhammad Ibrahim Nakadiri, Kperogi, I.I, Jidda K. A, Abdullahi, Muhammed Bukola*
22. Analysis of Staphylococcus aureus and Escherichia Coli and its Susceptibility to Antibiotic in Catheter-Associated Urinary Tract Infection Patients at Hospital in Province of West Nusa Tenggara..... 166  
*BaiqIsti Hijriani, ManikRetno Wahyunitisari, Agung Dwi Wahyu Widodo*
23. The Outcome of Limberg Flap Procedure in the Management of Primary Chronic Sacrococcygeal Pilonidal Sinus Disease ..... 174  
*Bashar Akram Al-Bayati, Salah Salih Mohammed, Mohamad Theyab Hamad*

24. Effectiveness of Educational Intervention Regarding Child Sexual Abuse on Knowledge and Attitude of Parents.....180  
*Bhavani Bangarkodi Balakrishna, Valsamma Joseph*
25. Legal Certainty of Hospital Service Operations During Pandemic Corona Virus Disease 2019 .....191  
*Brilian Tita Putri, Cinderella A.N Rieuwpassa, Gede Angga Dharmadiputra, R. Hardadi Airlangga, Mokhamad Khoirul Huda*
26. The Difference of EPDS Examination Results before and after Delivery in High-Risk Pregnant Woman at Unair Hospital.....199  
*Delvanny Alfikri Rekaputri Wicaksono, Agustina Konginan, Nalini Muhdi*
27. The Analysis of Personal Protective Equipment Covid-19 in The Hospital Sallowangan, Maros Regency 2020.....206  
*Fetrawaty Mansyur*
28. Sensorineural Hearing Loss and Cochlear Outer Hair Cell Function Nasopharyngeal Carcinoma Due to Influence of Cisplatin .....212  
*Fira Sofia, H.M.S Wiyadi, Achmad Chusnu Romdhoni*
29. Enucleation of Scrotal Epidermoid Cyst: Case Report.....219  
*Halim Perdana Kusuma, Nugrohoaji Dharmawan*
30. Role of Fine Needle Aspiration Cytology in Evaluation of Cervical Lymphadenopathy .....225  
*Harsimrat Singh, Abhay Kumar Singh, Inderpreet Singh Oberoi*
31. Effect of Tamsulosin on Biomarkers after Kidney Stones Lithotripsy.....230  
*Iman A. Ismael*
32. Stimulation of Growth and Development of Pandalungan Toddler in Indonesia.....237  
*Lantin Sulistyorini, Eka Afdi Septiyono, Nuning Dwi Merina, Peni Perdani Juliningrum, Ira Rahmawati*
33. Social Status and Oral Hygiene with Quality of Life in Patients with Primary Hypertension .....246  
*Masriadi, Muhammad Fajrin Wijaya, Maqhfirah Amiruddin, Tuti Alawiyah, Nur Rahmayani*
34. Diagnostic Problems in Leptospirosis Patients : A Case Report .....254  
*Megawati, Musofa Rusli*
35. Serum Levels of Interleukin-2 and Interleukin-6 among Helicobacter Pylori Positive Patients in Relation to Prognosis of Gastro-duodenal Disease .....259  
*Methaq M. Neamah AL-Hilfi, Khairallah A.S Mohammed, Nael H. Ali, Ali Dawood AL-Hilfi*
36. Transnasal Esophagoscopy Procedure in Outpatient Clinic at Dr. Soetomo General Academic Hospital .....266  
*Muhammad Qodri Anantomo, Rizka Fathoni Perdana*
37. Comparison of the Effect of Glycemic Control on the Incidence of Fetal Macrosomia and Large for Gestational Age in Gestational Diabetes Mellitus Patients; A Systematic Review .....273  
*Natasha Tiara Bernadette, Budi Prasetyo, Sony Wibisono, Bambang Purwanto*

#### IV

38. Antibacterial Activity of Antimicrobial Peptide Indolicidin against Multidrug-Resistant *Klebsiella pneumoniae* Isolated from Patients with Burns ..... 282  
*Noor Ibrahim Zaidan , Kais Kassim Ghaima , Hayder Mazin Rasool Al-Haboobi*
39. The Relationship between Stress Level and Nutritional Status of Students at SMP Negeri 56 Surabaya .....291  
*Rani Lauriencja Permatasari, Sri Umijati , Khairina , Izzatul Fithriyah*
40. Meta Analysis: Relationship of Husband’s Knowledge and Support During Pregnancy with Antenatal Care (ANC) Visits by Pregnant Mothers .....298  
*Rizka Yuli Wahyuni, ZairinNoor, Roselina Panghiyangan, Husaini, Meitria Syahadatina Noor*
41. Use of ICT (Information and Communication Technologies) in Health Facilities During the COVID-19 Pandemic: Case of Morocco .....310  
*Rouani Abdeljabbar , Al Ibrahim el Mehdi , Lamri Driss , Himmi Bennacer , Elouakfaoui Aziz*
42. The Role of IL-5, IL-33 and Total IgE in a Sample of Workers Suffering from Paints and Mills Asthmatic Patients.....319  
*Ruaa Adnan Ali*
43. The Relation between the Plasma Level of Testosterone Hormone and the Severity of COVID-19 in Iraqi Patients .....326  
*Rusul A. Abass , Manal K Rasheed , Ghassan T. Saeed*
44. The Effects of Water Provision and Education on Students’ Hydration Status, Cognitive Abilities, and Fine Motor Function in A Full-Day Primary School .....334  
*SaidahRauf, Santi AprilianLestaluhu*
45. Effect of Lifestyle Modification Guidelines on Mild Preeclampsia .....343  
*Sally Ebrahim Rashad Ali, Ragaa Ali Mohamed Abdraboo , Nagat Salah Shalaby, Inaam Hassan Abdelati*
46. Dhikr and Prayer Guidance on Peace of Mind and Blood Pressure Control .....351  
*Samsualam , Masriadi*
47. Emotional and Cognitive Impairment among Cardiac Patients - A Narrative Review .....358  
*Sarika M L, Sasmita Das, Suresh Kumar Behera*
48. Molecular Detection of *abaI* Genes in *Acinetobacter baumannii* Isolated from Clinical Specimens in Some Iraqi Hospitals ..... 366  
*Shahad Mahdi Salih, Zainab H.Abood Al-Asady*
49. Wild Strawberry *Fragaria vesca* L. extracts Hepatoprotective Activities Against Paracetamol-Induced Hepatotoxicity in Male Wistar Rats .....374  
*Sihning E. J. T. , Diah Purwaningsari, Nita Pranitasari, Liliawanti*
50. Successful Treatment with Rectal tube Placement and Barium Enema in Uncomplicated Acute Sigmoid Volvulus: A Case Report.....381  
*Stevanus Immanuel Silahooij , Budi Widodo*



51. The Contribution of Family Cohesion And Self-Efficacy on the Mental Health of Older Adults: A Survey Conducted in Aceh, Indonesia .....387  
*SufyanAnwar, Sukma Elida, Khairunnas*
52. Soluble Antimicrobial Peptide Pyocin of *Pseudomonas aeruginosa* and its Therapeutics: A Review Article ..... 395  
*Sura Saleem Albermani, EssamFadel Al-wan Al-Jumaili*
53. Anthropometric Measurement of Nasal Parameters in Adult Malay Population .....404  
*Thin Thin Aung, Kartikeya Tiwari, Osama Bahaa Mahammed*
54. Evaluation of Blood Parameters When Infected with *Candida Albicans* and Its Recovery Using Probiotics ..... 413  
*Umniyahqays jasim, Dalia abdalkareem*
55. Impact of Dietary Ginger and Ginseng Powder in Broiler Diet on the Physiological Traits and Immune Response of Avian Influenza .....425  
*Vian A.A.M. Hussein, Mushtaq T. Abdulwahid*
56. Pharmaceutical Nano-Delivery Systems: A Review.....433  
*Wissam S. Mahmood, Essam FadelAlwan Al-Jumaili*
57. The Legal Responsibility to the Family for Shackling People with Mental Illness During the Covid-19 Pandemic.....440  
*Yuna Ariawan, Cempaka Dewi, Ratih Wulansari Manuaba, Chandranita Manuaba, Mokhamad Khoirul Huda*
58. Molecular Study Using Real Time PCR to Detect Influenza Viruses (Flu A, Flu B and RSV) in Patients at Ramadi Hospital..... 447  
*Abbas O. Aljanabi, Mohammed Amer Fayyadh, Aseel Khalid Hameed, Najeeb Mohammed Hussein*
59. Anti-Hyperlipidemia Effects of Sijukkot Leaf Extract Ethanol (*Lactuca Indica*)..... 456  
*Ida Duma Riris, Saronom Silaban, Marini Damanik, Nora Susanti*

## Meta Study of the Relationship between Knowledge and Incentives with Posyandu Cadre Performance

Arjan Arkasi<sup>1,2</sup>, Syamsul Arifin<sup>2</sup>, Ari Yunanto<sup>3</sup>, Eko Suhartono<sup>2</sup>, Fauzie Rahman<sup>4</sup>

<sup>1</sup>South Kalimantan Provincial Health Office, Indonesia, <sup>2</sup>Master of Public Health Study Program, Medical Faculty, Lambung Mangkurat University, Banjarbaru, Indonesia, <sup>3</sup>Medical Faculty, Lambung Mangkurat University, Kalimantan Selatan, <sup>4</sup>Public Health Study Program, Lambung Mangkurat University, Banjarbaru, Indonesia

### Abstract

**Background:** Posyandu cadre performance refers to the role of cadres in posyandu activities as in the Posyandu cadre handbook, explaining the role of posyandu cadres is divided into three stages, namely before posyandu opening days, posyandu opening days and after posyandu opening days. Many studies report different results on the performance of health cadres related to knowledge and incentives. The purpose of this paper is to analyze the relationship between knowledge and incentives with the performance of posyandu cadres.

**Method:** The research method used is meta-analysis to assess how big the effect of the knowledge and incentive variables will be on the performance of posyandu cadres.

**Result:** Based on the results of the study of research articles, the combined P-value of 0,000 on the knowledge variable, and the combined p-value of 0,039 on the incentive variable.

**Conclusion:** There is a relationship between knowledge and incentive variables on the performance of posyandu cadres.

**Keywords:** Knowledge, incentives, performance of posyandu cadres.

### Abstract

**Background:** According to the Indonesian Ministry of Health<sup>1</sup> (2012), The Posyandu cadre handbook states that Posyandu is a form of Community Based Health Efforts which is managed from, by, for and with the community, in order to empower the community and provide convenience to the community in obtaining basic health services.

Posyandu has 5 priority programs, namely maternal and child health, family planning, immunization, nutrition, and prevention and control of diarrhea. Until 2014, there were 55.517 poskesdes operating

and 289.635 posyandu in Indonesia. According to data compiled by the Central Kalimantan Provincial Health Office, the number of posyandu spread across Central Kalimantan province in 2017 was 2.645 posyandu with active coverage of 46,02% in 2019 and 34,08% in 2020.<sup>2</sup>

Posyandu cadres are community members appointed by the community to work for the community voluntarily, to carry out activities related to simple health services at the posyandu. Most posyandu cadres are married women and PKK members aged 20-40 years with a minimum education of elementary

school.<sup>1</sup> Based on the Minister of Home Affairs Regulation number 19 of 2011, posyandu cadres are community members who are willing, able and have the time to organize posyandu activities voluntarily.

The performance of posyandu cadres refers to the role of cadres in posyandu activities as in the posyandu cadre handbook which explains the role of posyandu cadres which is divided into three stages, namely before the opening day of posyandu such as preparing for the implementation of posyandu activities, during posyandu opening days such as registering including registration of toddlers, pregnant women, postpartum mothers, breastfeeding mothers, and other targets and after the opening day of the posyandu such as making home visits to toddlers who are not present on the day of opening the posyandu, malnourished children, or children who are malnourished outpatients, and so on.<sup>1</sup>

Research that shows the results of a correlation between knowledge and cadre performance is Doda<sup>3</sup> (2014) shows that there is a significant relationship between knowledge and the performance of posyandu cadres, Keswara (2014) with a p value of 0,000, and Sari<sup>4</sup> (2017) with a p value of 0,001. Other studies that show that there is no relationship between knowledge and performance of cadres are Fretty<sup>5</sup> (2020) p-value 0,550, Rinayati<sup>6</sup> (2020) with p-value 0,468.

Similar research collected discusses knowledge and incentives affecting the performance of posyandu cadres. Several studies that were collected gave different results, where there was research that gave the results of knowledge and incentives that were not related to the performance of posyandu cadres while other studies showed that there was a relationship between knowledge and incentives on the performance of posyandu cadres. Many studies report different results on the performance of health cadres related to knowledge and incentives, which is the reason for reviewing these studies. One method that combines the results of research data quantitatively is to use meta-analysis. Based on this, meta-analysis can be used to explain heterogeneity in similar studies that discuss knowledge and incentives affecting the performance of posyandu cadres.

## 2 Method

This type of research is a literature review with a meta-analysis to assess how big the effect of the knowledge and incentive variables will be on the performance of posyandu cadres. The method used is a high-quality systematic review described as the most reliable source of evidence to guide clinical practice. The purpose of the systematic review carried out is to provide a careful summary of all the main research available in response to the research question.

## Result and Discussion

**Table 1. Effect Size of Combined Research Relationship between Knowledge and Performance of Posyandu Cadres**

Effect Size and 95% CI					Significant Test	
Model	Number of Research	Combined Effect	Lower limit	Upper limit	Z	P
<b>Random</b>	<b>10</b>	2,786	1,674	4,638	3,941	0,000



From the 10 studies that resulted in a p-value of  $0,000 < 0,05$ , it was concluded that there was a tendency of a relationship between knowledge and performance of posyandu cadres and the combined ES of knowledge OR with posyandu cadre performance of 2,491 with a wide 95% CI lower limit of 1,842. So the results of the statistical test show a fairly high effect.

The results of this study are in accordance with research by Muzakkir<sup>7</sup> (2013) which examined the factors related to the performance of posyandu

cadres. The results of the study stated that there was a relationship between knowledge and the performance of posyandu cadres. Research by Ilham et al.<sup>8</sup> (2013) on the relationship between knowledge, training and motivation of cadres with the performance of posyandu cadres, stated that there was a relationship between knowledge, training, and motivation of cadres with the performance of posyandu cadres. In addition to the knowledge of posyandu cadres, other factors such as motivation, incentives, and education of posyandu cadres can also affect the performance of posyandu cadres.<sup>7,8</sup>

**Table 2. Effect Size of Combined Incentive Relationship Research on Posyandu Cadre Performance**

Effect Size and 95% CI					Significant Test	
Model	Number of Research	Combined Effect	Lower limit	Upper limit	Z	P
Random	6	4,670	1,062	20-149	2,066	0,039

The analysis of the 6 (six) studies resulted in a p-value of  $0,039 < 0,05$ , it was concluded that incentives have a tendency to be related to the performance of posyandu cadres and ES combined from OR on incentives with posyandu cadres' performance of 4,670 with a wide CI upper and lower limits 1,082-20,149. So the results of the statistical test show a very high effect.

Based on the results of the study, there were 4 (four) research journals or 66,66% stated that incentives were related to the performance of posyandu cadres while 2 (two) research journals or 33,33% stated that there was no relationship between incentives and posyandu cadres performance.

This research is also in line with Ponto's research, (2020) the results of his research stated that there were 62 respondents who gave good and active incentives as many as 34 respondents (54,8%), good

and less active got 16 respondents (25,8%), good and inactive got 0 respondents (0%), providing sufficient incentives and active got 0 respondents, moderate and less active 8 respondents (12,9%), moderate and inactive got 4 respondents (6,5%), while incentives were less and active 0 respondents (0%), moderate and less active 0 respondents (0%), less and inactive get 0 respondents (0%) with p-value  $0,271 > 0,05$ . Other research conducted by Silviyani<sup>9</sup> (2015) with the title of the study of factors related to the performance of elderly posyandu cadres in the Miroto Health Center Semarang area where the incentive factor did not have a significant relationship with the performance of cadres in posyandu statistical results obtained p-value  $0,16 > 0,05$ .

**Conclusion**

The results of the meta-analysis show that knowledge and incentives have a relationship with the

performance of posyandu cadres. Recommendations based on the results of this study are to hold tiered and varied short courses for cadres as an effort to in-depth knowledge about improving nutrition and food security, maternal and child health and environmental health as well as providing incentives to posyandu cadres on an ongoing basis, in the form of providing transportation costs for cadres, health insurance, and food assistance.

**Ethical Clearance:** There is no ethical test because it uses the journal analysis method

**Source of Funding:** This research used self funding

#### **Declaration of Conflicting Interest**

The authors declared no potential conflict of interest with respect to the research, authorship, and/or publication of this article.

#### **References**

1. Kemenkes RI, Kurikulum dan Modul: Peatihan Kader posyandu. Jakarta: Kemenkes RI dan Pokjanal posyandu Pusat, 2012
2. Kementerian Kesehatan RI. Profil Kesehatan Indonesia. Jakarta, 2014.
3. Doda, R. Faktor-faktor yang berhubungan dengan Kinerja Kader posyandu di Kecamatan Kota Utara Kota Gorontalo. 2014.
4. Purnamasari Y, Mariati, Elly Wahyuni. Upaya peningkatan pengetahuan sikap motivasi dan kinerja kader melalui pelatihan tentang peran dan tugas kader posyandu. *Jurnal Penelitian Terapan Kesehatan* 2017; 4(1): 63-69.
5. Fretty, H. Misnaniarti. Flora R. Hubungan Lama Kerja Menjadi Kader, Sikap Dan Pengetahuan dengan Kinerja Kader posyandu di Kota Palembang, 2020; 5(2), Agustus 2020. DOI:10.36729.
6. Rinayati, Erawati, A, D. Wahyuning, S. Gambaran Tingkat Pengetahuan dan Kinerja Kader Kesehatan. *Jurnal Ilmiah Permas* 2020; 10(3): 359-364, Juli 2020. ISSN 2549-8134.
7. Muzakir. Faktor-faktor yang berhubungan dengan kinerja kader posyandu di Wilayah Kerja Uptd Puskesmas Kaledupa Kecamatan Kaledupa Kabupaten Wakatobi Propinsi Sulawesi Tenggara. *Jurnal Komunitas* 2013; 2(2).
8. Ilham, Irmayani, Agistina. Hubungan pengetahuan, pelatihan dan motivasi kader dengan kinerja kader Posyandu di Wilayah Kerja Puskesmas Lisu Kecamatan Tanete Riaja Kabupaten Barru. *Jurnal Ilmiah Kesehatan* 2013; 3(2): 84-90.
9. Silviyani N, Vilda AVS. Faktor-Faktor yang berhubungan dengan kinerja Posyandu Lansia di Wilayah Puskesmas Miroto Semarang. Fakultas Kesehatan Universitas Dian Nuswantoro, 2015.