LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH: JURNAL ILMIAH

Judul Artikel Ilmiah	:	Goiter and hypothyroidism among elementary school children in lowland
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agricultural area, Brebes District Indonesia

Nama semua penulis : Apoina Kartini, **Suhartono**, Pangestuti Dina R, Adi M. Sakundarno, Suratman,

Rasipin

Status Pengusul (coret yg tidak perlu) : Penulis Utama/ Penulis Utama & Korespondensi/Penulis Korespondensi/

Penulis Anggota

Status Jurnal:

Nama Jurnal : Indian Journal of Public Helath Research and Development

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9&issue=9&article=023

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Impact Factor (SJIF - 6.405), InfoBase Index (IB Factor-3.2), Google Scholar, CNKI Scholar, Summon(ProQuest), EBSCO Discovery, I2OR, ESJI, Indian Science, Primo and Primo Central, Cite Factor, DRJI, ISRA-JIF, Scholar Steer

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No	Komponen yang dinilai	Junal internasional bereputasi, Q4	Nilai yang didapat
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b	Ruang lingkup & kedalaman pembahasan (30 %)	9	8.79
c	Kecukupan dan kemutahiran data/informasi dan	9	8.95
	metodologi (30 %)		
d	Kelengkapan unsur dan kualitas jurnal (30%)	9	8.83
	Nilai Total	30	29.5
	Nilai yang didapat pengusul: 29.5 X 0,4 =11	1.8	

Catatan Penilaian artikel oleh Reviewer

a	Kelengkapan unsur isi artikel	Ucapan terimakasih (-) the condition only stated the descriptive of data, nothing about the risk of expose to pesticide and developing goiter. PR 1.9 p=0.002.
b	Ruang lingkup & kedalaman pembahasan	Discussion should try to explain the finding of study in scientific way, thus the important finding should be describe first and follow by exploration.
С	Kecukupan dan kemutahiran data/informasi dan metodologi	Method is good with include all important such of preparation, initiation, interpretation, and consideration statistical result. Important/new previous studies were cited.
d	Kelengkapan unsur dan kualitas jurnal	Overall goodly is models to the way to share an important and presented of finding is very light.

Semarang, 13 April 2020

Reviewer 1

Prof. Dr. dr. Tri Indah Winarni, MSi.Med, PA.

NIP 196605101997022001

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9&issue=9&article=023

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	[]	Jurnal Internasional
Jurnal Nasional	[]	Jurnal Nasional Terakreditasi Dikti Peringkat 1 atau 2
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			artikel
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b	Ruang lingkup & kedalaman pembahasan (30 %)	9	8.79
c	Kecukupan dan kemutahiran data/informasi dan	9	8.75
	metodologi (30 %)		
d	Kelengkapan unsur dan kualitas jurnal (30%)	9	7.73
	Nilai Total	30	28
	Nilai yang didapat pengusul: 28 X 0,4 =11.2		

Catatan Penilaian artikel oleh Reviewer

a	Kelengkapan unsur isi artikel	Artikel telah memenuhi kaidah penulisan jurnal yang dituju yaitu Abstract, introduction, material and method, findings, discussion, conclusion, references.
b	Ruang lingkup & kedalaman pembahasan	Bahasan tentang patofisiologi terjadinya goiter sudah dilakukan dengan baik, namun bahasan teori tentang pajanan pestisida sebagai faktor risiko kejadian goiter, melalui mekanisme <i>endocrine disrupting chemicals</i> , perlu dipertajam. Dalam artikel ini penulis menggunakan menggunakan cukup referensi sebagai acuan yaitu 31 referensi. Untuk pembahasan menggunakan 20 Artikel. Dari seluruh artikel yang digunakan terdapat 4 artikel yang kurang update (terbit melebihi 10 tahun terakhir).
С	Kecukupan dan kemutahiran data/informasi dan metodologi	Metode penelitian, dengan menggunakan desain <i>cross-sectional</i> , sudah sesuai dengan tujuan penelitian. Teknik penyajian data menggunakan Tabel dapat lebih disederhanakan, misalnya Tabel 3 dan 4 dapat digabungkan, agar lebih mudah dipahami pembaca.
d	Kelengkapan unsur dan kualitas jurnal	Publisher terindeks dalam basis data bereputasi Q4 dengan SJR 0.11 dan artikel terindex di Scopus.

Semarang, 15-4- 2020 Reviewer 2

Prof. Dr. dr. Banundari Rachmawati, Sp.PK (K) NIP. 196006061988112002

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Goiter and hypothyroidisi agricultural area, Brebes o	m among elementary school children district Indonesia (Article)	in lowland		·
Kartini, A.a, <mark>Suhartono</mark> b ⊠, Pang	gestuti, D.R.ª, Sakundarno Adi, M. ^c , Suratman ^d , Rasi	pin ^e ⊙		
^b Department of Environmental Health	on, Faculty of Public Health, Diponegoro University, Sem n, Faculty of Public Health, Diponegoro University, Sema of Public Health, Diponegoro University, Semarang, Ind	rang, Indonesia	PlumX Meti Usage, Capturi Social Media a beyond Scopus	es, Mentions, nd Citations
Abstract	~\	/iew references (31)		
to identify goiter and hypothyroidism study recruited sample of 100 children Indonesia. Goiter existence determine (TSH) measured with mini vidas test k method. Univariate and bivariate data hypothyroidism was 53.0% and 17.4% whose fathers were farmer and non-fa CI=1.3-2.6). The proportion of hypothy than non-farmers (13.5%). However, t	e agricultural area, and it was probably the cause of goite among elementary school children in lowland agricultur in aged 9-12 years old from three elementary schools in B d by palpation of a trained nutritionist; level of thyroid stits; and Urinary Iodine Concentration (UIC) measured with analysis (Chi-square test, risk estimate) were applied. Proportion of the respectively. Median UIC was 346 µg/dL. Proportion of the remains and 43,2% respectively (p=0.002; Prevally roidism in the children whose fathers were farmers (29.4 here was no significance difference proportion of hypoth (1=0.8-6.0). © 2018, Indian Journal of Public Health Reservant	al areas. Cross-sectional rebes District, imulating hormone th acid digestion portion of goiter and goiter in the children ence Ratio=1.9; 95% 4%) tends to be higher yroidism in both group	The relation pesticide ex serum igf-1 weight: A cabrebes, inde Widyawati, Mexitalia, N (2020) Inter Occupation Medicine Pesticide ex	S.A., Suhartono, S.,
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Goiter and Hypothyroidism among Elementary School Children in Lowland Agricultural Area, Brebes District Indonesia

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ABSTRACT

The most common cause of goiter is the lack of iodine intake and usually occurs in many communities in upland areas. Pesticides are widely used in the agricultural area, and it was probably the cause of goiter. This research is aimed to identify goiter and hypothyroidism among elementary school children in lowland agricultural areas. Cross-sectional study recruited sample of 100 children aged 9-12 years old from three elementary schools in Brebes District, Indonesia. Goiter existence determined by palpation of a trained nutritionist; level of thyroid stimulating hormone (TSH) measured with mini vidas test kits; and Urinary Iodine Concentration (UIC) measured with acid digestion method. Univariate and bivariate data analysis (Chi-square test,risk estimate) were applied. Proportion of goiter and hypothyroidism was 53.0% and 17.4% respectively. Median UIC was 346 μ g/dL. Proportion of goiter in the children whose fathers were farmer and non-farmer was 80,8% and 43,2% respectively (p=0.002; Prevalence Ratio=1.9; 95% CI=1.3-2.6). The proportion of hypothyroidism in the children whose fathers were farmers (29.4%) tends to be higher than non-farmers (13.5%). However, there was no significance difference proportion of hypothyroidism in both group (p=0.255; Prevalence Ratio=2,2; 95% CI=0.8-6.0).

Keywords: Goiter, Hypothyroidism, Children, Agricultural Area, Indonesia

INTRODUCTION

Goiter is an enlargement of thyroid gland located in the neck caused by malfunctioning or changing gland structures or its morphology. The enlargement of the thyroid gland can influence the positions of organs. The negative effects of goiter can be a cosmetic problem and difficulties in swallowing and breathing. Thyroid gland has a function to produce thyroid hormones, thyroxine (T4) and triiodothyronine (T3). Thyroid hormone plays an important role in a process of body growth, brain development, nervous system, and teeth and skeletal

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development². The lack of thyroid hormone will increase a level of Thyroid Stimulating Hormone (TSH), a type of hormone that increases a synthesis of thyroid hormone and stimulates an enlargement of thyroid gland³. Goiter occurred on children is responsible for growth and development disruption such as stunting, low Intelligence Quotient, and mental disorders⁴.

Goiter in an endemic area is mainly caused by the lack of iodine intakes as the critical raw material in the process of thyroid hormone synthesis. Endemic goiter, well-known as Iodine Deficiency Disorder (IDD)⁵, is generally found in highland areas due to low iodine levels in soil, water, and agricultural products. Goiter rate in lowland areas is also quite high even though the content of iodine levels in soil, water, and agricultural commodities is sufficient⁶. Related to this phenomenon, some theories stated that thyroid dysfunctions occurred due to exposures of heavy metals in the environment such as lead, mercury, cadmium, polychlorinated biphenyl (PCB), and pesticide^{7,8}.

Measure Effectiveness of Different Approaches of Patient Education in Rehabilitation Services

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ABSTRACT

Introduction: Patient education is an important aspect in rehabilitation area. Effective patient education can increase compliance of medical treatment regime and hence early recovery. The study was conducted as there is paucity of data with respect to effectiveness of different approaches to patient education in rehabilitation.

Objective: To measure effectiveness of different approaches of patients' education.

Materials and Method: This cross sectional and qualitative study were conducted among 345 adult patients who sought rehabilitation services from rehabilitation department at KAMC. Using purposive sampling method. Data were collected by using suitably standard questionnaire that was developed by Research Center of Stanford University School of Medicine with necessary modification to protect cultural sensitivity of Saudi Arabia and were analyzed by SPSS (version 22). Frequencies and percentages were used to analyze the data.

Results: Majority (78%) of therapists use practical aspect of patient education and was observed as most preferred type of patient education method as reported by the respondents (76.8%) followed by oral instructions (26.4%), videos/picture (15.9%) and handout (13.6%).

Conclusion: The different approaches followed in the hospital were handouts (written materials), video/ picture, oral instructions and practical approach (demonstrations). The study indicated that practical aspects of patient education is most effective and most preferred practiced patient education approach in rehabilitation area.

Keywords: Patient education, Rehabilitation, Oral instructions, Videos/picture. Handout

INTRODUCTION

There are different approaches of educating the patients such as visual, auditory and kinesthetic approaches. The selection of a particular approach depends on the lifestyle and health condition of the patient. Engagement of patients in education rise their performance, satisfaction and coping skills⁴. Visual approach uses visual aids that can help the patients to make a picture in their mind about what they are being

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taught ⁸.For health care team charts, videos, pictures, even gestures and symbols to make the patient understand about his/her health management⁸. The visual approach can be accompanied with written description in simple language. Gagliano⁷ has discovered that visual approach, such as videos, has strengthen patients' knowledge and cooperation because it is a practical teaching technique, cheap and attracts audience attention⁷.

For auditory approach, patients were provided with health education verbally, so as to make them learn better as health education content is presented in active interaction between the therapists and patients⁸. Through auditory the therapists ask them to repeat what they heard or ask to say what they understand from the conversation⁸. According to an earlier study the verbal education combined with written materials had improved

Immunological Status of Mumps in Infertile Individuals in Comparison to Children

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ABSTRACT

Mumps is spread easily through the airborne spray from the upper respiratory tract A Cross-sectional prospective study conducted in Tikrit Teaching Hospital and Primary Health Care Centers.

The study population included adults and children from both gender, the adults population group are to be recruited from university students, while the children are to be recruited from 6th primary, 1st, 2nd and 3rd secondary schools, the sample size is 100 subjects in each adults and children groups [50 subject male and 50 female]. Thus a minimum of 200 subjects to be included in the study. Data on vaccination was taken directly from the each individual or vaccination cards if available. ELISA was used for determination of IgG for mumps diseases in central research Laboratory and Tikrit Laboratory's, the tests were performed according to manufacturer instructions.

Optical density mean value was with predictive value for mumps antibodies concentration. The mumps mean serum value was lower in adult subjects as compared to child group. This finding indicated that immune response to mumps decreased with time and contribute to resurgence of mumps in community. The frequency of mumps non immune status was higher in adults as compared to child. Additionally, mumps immune response with high titer was significantly lower in adults than in children. The high titer rate was 2 times more in children than in adults. These figures indicated that IgG mumps antibody concentration confirmed the possibility of immune reduction with age and explain the outbreak of the disease in vaccinated subjects.

The mean serum mumps IgG concentration was higher in male as compared to female, but not significant. In children, the mean serum mumps IgG was significantly higher in child male as compared to child female. Thus, this study finding do confirm that immune response to mumps vaccination was affected by gender and more intensive in male. The mean mumps serum IgG values were significantly higher in child male as compared to adult male.

Keywords: Immunological, status, mumps, infertile, individuals, comparison children.

INTRODUCTION

Immunization is one of the most successful and costeffective public health interventions to prevent deaths and disabilities from vaccine-preventable diseases. Smallpox was eradicated and the world was about to eradicate poliomyelitis. Significant reductions have been achieved in reducing disease, disability and death due to

Corresponding Author:

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University of Tikrit, Tikrit, Iraq Email: m.hala17@yahoo.com diphtheria, tetanus, pertussis and measles. In 2003 alone, it is estimated that immunization has managed to avoid more than 2 million deaths.^[1]

Mumps was a common childhood disease before a vaccination became available for the virus. When people think of mumps, they often think of swollen cheeks due to the swelling of the salivary glands located next to the ears. However, because of the types of tissues that the mumps virus can infect, complications such as encephalitis, meningitis, swelling of the ovaries, and swelling of the testes can occur. Before the vaccination was introduced, mumps was the most common cause of acquired deafness in children^[2]