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2nd International Conference on Nutrition and Food (ICNF) Registration

17-18 November 2022

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Dr

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THE MEASUREMENT OF URINARY PYRIDINIUM CROSSLINKS AS A SENSITIVE BIOMARKER OF NUTRITIONAL STATUS IN ADOLESCENTS

Aslis Wirda Hayati^{1}, M. Yusuf. MF², Hardinsyah³, and Yessi Alza⁴*

¹Department of Nutrition, Health Polytechnic of Riau, Ministry of Health, Indonesia

²Department of Environmental Health, Health Polytechnic of Tanjungpinang, Ministry of Health, Indonesia

³Department of Community Nutrition, IPB University, Indonesia

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Abstract

The study's purpose was to compare anthropometric method of measuring nutritional status with the height for age z-score (HAZ) by measuring biochemical content of urinary Pyridinium crosslinks (Pyd). The research design was a quasi-experimental pre and posttest, conducted at SMPN 1 Kampar (Junior High School), Riau Province. The research samples were students aged 12-15 years as many as 76 respondents consisting of normal and stunted adolescents. Provision of nutritional intervention in the form of a midmorning snack with an energy content of 575.1 kcal was conducted in January-March 2022. Pyd content was analyzed using MicroVue™ PYD EIA kit, USA, while the data were analyzed using Anova test. The HAZ's students with normal status before and after intervention had the same value (0.65 ± 0.70 and -0.67 ± 0.69 ; $p > 0.05$), as well as students with stunted status, namely HAZ values before and after nutrition intervention had the same value (-2.32 ± 0.36 and -2.29 ± 0.35 ; $p > 0.05$); However, the HAZ's adolescent with normal and stunted status was different ($p < 0.05$). Therefore, it indicated that the provision of nutritional intervention did not improve the nutritional status of adolescents from stunted to normal. Besides, it was found that Pyd content was normal both before and after of nutrition intervention (140.41 ± 70.35 and 122.28 ± 72.72 nmol/mmol creatinine), which meant different from the stunted adolescents before the nutrition intervention (191.65 ± 69.58 nmol/mmol creatinine); but Pyd content of stunted adolescents after nutritional intervention (158.47 ± 58.84 nmol/mmol creatinine) was same with Pyd content of normal adolescents ($p < 0.05$). It signified that the provision of nutritional interventions can improve the nutritional status of stunted adolescents to normal. It can be concluded that the measurement of stunting nutritional status using Pyd is more sensitive than anthropometric of HAZ. The further research is needed on the cutoff point value of stunting nutritional status in adolescents with larger samples in an epidemiological research scale.

Keywords: *Urine Pyridinium crosslinks, Sensitivity, Anthropometry, Biomarker, Nutritional status*

Tujuan penelitian yaitu untuk membandingkan cara pengukuran status gizi secara antropometri nilai z-score TB/U dengan secara biokimia kandungan *Pyridinium crosslinks* (Pyd) urin. Disain penelitian yaitu quasi eksperimen *pre* dan *post test*. Penelitian dilakukan di SMP Negeri 1 Kampar Propinsi Riau. Sampel penelitian yaitu remaja usia 12 – 15 tahun sebanyak 76 orang yang terdiri dari remaja normal dan stunting. Pemberian intervensi gizi berupa midmorning snack dengan kandungan energi 575.1 kkal pada Januari-Maret 2022. Kandungan Pyd urin dianalisis menggunakan MicroVue™ PYD EIA kit, USA. Data dianalisis menggunakan Anova. Nilai z-score TB/U responden dengan status gizi normal sebelum dan setelah intervensi gizi adalah sama ($-0,65 \pm 0,70$ dan $-0,67 \pm 0,69$; $p > 0,05$), begitu juga dengan responden dengan status gizi stunting yaitu nilai z-score TB/U sebelum dan setelah intervensi gizi adalah sama ($-2,32 \pm 0,36$ dan $-2,29 \pm 0,35$; $p > 0,05$); namun nilai z-score TB/U responden dengan status gizi normal dan responden dengan status gizi stunting adalah berbeda ($p < 0,05$). Artinya, pemberian intervensi gizi tidak meningkatkan status gizi responden dari stunting menjadi normal pada penilaian secara antropometri z-score TB/U. Di sisi lain dengan pengukuran secara biokimia diketahui bahwa kandungan Pyd urin responden normal baik sebelum intervensi maupun sesudah intervensi gizi ($140,41 \pm 70,35$ dan $122,28 \pm 72,72$ nmol/mmol creatinine) adalah berbeda dengan responden stunting sebelum intervensi gizi ($191,65 \pm 69,58$ nmol/mmol creatinine); namun kandungan Pyd urin responden stunting setelah intervensi gizi ($158,47 \pm 58,84$ nmol/mmol creatinine) menjadi sama dengan kandungan Pyd urin responden dengan status gizi normal ($p < 0,05$). Artinya, pemberian intervensi gizi dapat meningkatkan status gizi responden stunting menjadi normal pada penilaian status gizi menggunakan biomarker Pyd urin. Terlihat bahwa penilaian status gizi stunting dengan menggunakan kandungan Pyd urin lebih sensitif dibandingkan secara antropometri z-score TB/U. Perlu dilakukan penelitian lanjutan tentang nilai cut off point status gizi stunting melalui kandungan Pyd urin pada remaja dengan jumlah sampel yang lebih besar dalam skala penelitian epidemiologi.

Keyword: *Pyridinium crosslinks* urin, sensitifitas, antropometri, biomarker, status gizi

Pyd mempunyai peranan menghubungkan molekul kolagen dengan fibril kolagen dan merupakan penguat mekanik tulang. Pyd dilepas ke dalam sirkulasi dan di ekskresi ke urin dalam bentuk bebas ($\pm 40\%$) dan terikat dengan peptida ($\pm 60\%$). Ekskresi Pyd di urin merupakan parameter yang baik untuk resepsi tulang. Metode mengukur Pyd crosslink antara lain adalah HPLC (High pressure liquid chromatography) dan ELISA. Pemeriksaan Pyd crosslink di urin spesifik untuk tulang dan digunakan sebagai petanda resorpsi tulang serta memperkirakan risiko terjadinya patah tulang (Widijanti, dkk. 2003)

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If you are interested to submit your manuscript with us, please check the instructions in the letter. Attached as well are comments from our reviewers on your abstract.

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ABSTRACT REVIEW FORM

Abstract code : PD060COX

Abstract title : The Measurement of Urinary Pyridinium Crosslinks as a Sensitive Biomarker of Nutritional Status in Adolescents

Reviewer name: 07

Comments:

Please explain any weak areas and offer specific advice as to how the author(s) may improve them.

Title: -

Introduction: Please provide a short introduction that describes the main subject, purpose, the importance, and context of the research.

Methods: The research design was not in line with the title and purpose/objective of the research. If you want to compare anthropometric measurement with Pyd, why did you use quasi experimental study, not cross-sectional? Why did you use Anova, there was only two groups (i.e., normal and stunted)?

Results: Not comprehensible. The first few sentences discuss that the intervention did not improve the nutritional status of adolescents. This is not in line with the objective of the study. The second part regarding the Pyd result could not be understood:

- Besides, it was found that Pyd content was normal both before and after of nutrition intervention (140.41±70.35 and 122.28 ±72.72 nmol/mmol creatinine) → are these the total average of both normal and stunted group?
- which meant different from the stunted adolescents before the nutrition intervention (191.65±69.58 nmol/mmol creatinine) → different from normal nutritional status?
- but Pyd content of stunted adolescents after nutritional intervention (158.47±58.84 nmol/mmol creatinine) was same with Pyd content of normal adolescents (p<0.05) → how much is Pyd content of normal nutritional status? How could you say it's the same if p<0.05?
- It signified that the provision of nutritional interventions can improve the nutritional status of stunted adolescents to normal → based on which result?

Conclusions: It is a jumping conclusion. It's not clear which result is the base for this conclusion. How could you say Pvd was more sensitive than HAZ to measure stunting, while HAZ is the gold standard for measuring stunting?

Keywords: Please provide keywords different from the words used in the title

Language: Some contents are not comprehensible. Too wordy and long sentences in result. Please proofread.

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ABSTRACT REVIEW FORM

Abstract code : PD060COX

Abstract title : The Measurement of Urinary Pyridinium Crosslinks as a Sensitive Biomarker of Nutritional Status in Adolescents

Reviewer name: 08

Comments:

Please explain any weak areas and offer specific advice as to how the author(s) may improve them.

Title: OK

Introduction: No links between why use Urinary Pyridinium Crosslinks for the assessment of HAZ

Methods: Should include more info on the intervention study i.e. randomication, blinding etc

Results: Not clear and very confusing

Conclusions: Not specific to HAZ

Keywords: -

Language: Contradicting statements

ABSTRACT

The study's purpose was to compare anthropometric method of measuring nutritional status with the height for age z-score (HAZ) by measuring biochemical content of urinary Pyridinium crosslinks (Pyd). The research design was a quasi-experimental pre and posttest, conducted at SMPN 1 Kampar (Junior High School), Riau Province. The research samples were students aged 12-15 years as many as 76 respondents consisting of normal and stunted adolescents. Provision of nutritional intervention in the form of a midmorning snack with an energy content of 575.1 kcal was conducted in January-March 2022. Pyd content was analyzed using MicroVue™ PYD EIA kit, USA, while the data were analyzed using Anova test. The HAZ's students with normal status before and after intervention had the same value (0.65 ± 0.70 and -0.67 ± 0.69 ; $p > 0.05$), as well as students with stunted status, namely HAZ values before and after nutrition intervention had the same value (-2.32 ± 0.36 and -2.29 ± 0.35 ; $p > 0.05$); However, the HAZ's adolescent with normal and stunted status was different ($p < 0.05$). Therefore, it indicated that the provision of nutritional intervention did not improve the nutritional status of adolescents from stunted to normal. Besides, it was found that Pyd content was normal both before and after of nutrition intervention (140.41 ± 70.35 and 122.28 ± 72.72 nmol/mmol creatinine), which meant different from the stunted adolescents before the nutrition intervention (191.65 ± 69.58 nmol/mmol creatinine); but Pyd content of stunted adolescents after nutritional intervention (158.47 ± 58.84 nmol/mmol creatinine) was same with Pyd content of normal adolescents ($p < 0.05$). It signified that the provision of nutritional interventions can improve the nutritional status of stunted adolescents to normal. It can be concluded that the measurement of stunting nutritional status using Pyd is more sensitive than anthropometric of HAZ. The further research is needed on the cutoff point value of stunting nutritional status in adolescents with larger samples in an epidemiological research scale.

Keywords: Urine Pyridinium crosslinks, Sensitivity, Anthropometry, Biomarker, Nutritional status

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Aslis Wirda Hayati <aslis@pkr.ac.id> to icnf Tue, Aug 2, 2022, 10:27 AM

Dear, Committee/Organizer of ICNF, IPB University

Regarding the notification of the review from the ICNF's reviewer/committee we have received, our abstract entitled "The Measurement of Urinary Pyridinium Crosslinks as A Sensitive Biomarker of Nutritional Status" was categorized and grouped into poster presentations. If permitted, may we request reconsideration, so that our team can be grouped into the category of oral presentation, because we would like to take a part as an oral presenter and we are also supported and facilitated by our institution as an oral presenter at a scientific meeting/event. Apologizing for the quality of our abstract we submitted previously was not good enough, but we will work to improve it in the writing of the article manuscript.

We're looking forward to getting that opportunity.
Thank you very much for your attention and reconsideration.

Best regard,
Dr. Aslis Wirda Hayati, SP, M.Si

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We're looking forward to getting that opportunity.
Thank you very much for your attention and reconsideration.

Best regard,
Dr. Aslis Wirda Hayati, SP, M.Si
Poltekkes Kemenkes Riau
HP 0818106440

ICNF IPB <icnf@apps.ipb.ac.id> to me Mon, Aug 8, 2022, 10:29 AM

Dear Dr Aslis Wirda Hayati

Please find the attached conditional letter of acceptance for your abstract presentation at ICNF 2022.

Thank you for your interest in joining ICNF 2022

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Conditional Letter of Abstract Acceptance

Dear Dr Aslis Wirda Hayati

On behalf of the Scientific Committee of the 2st IPB International Conference on Nutrition and Food (ICNF 2022), we are pleased to inform you that your abstract titled:

The Measurement of Urinary Pyridinium Crosslinks as A Sensitive Biomarker of Nutritional Status in Adolescents

(Registration number **PD060COO**)

is offered a **conditional acceptance** to be presented at ICNF 2022 for **Oral Presentation in Community Nutrition** provided that **the manuscript that you submit can fulfill our quality standard.**

If you wish to publish your research paper with us as a proceeding in the format of **Extended Abstract** that will be published in a supplementary issue with the [Malaysian Journal of Medicine and Health Sciences](#), please download these following files:

1. ICNF2022-Guideline for Extended Abstract
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Eligibility of your paper to be published in our conference proceedings will be determined by our Scientific Committee.

Please note that the acceptable similarity index is $\leq 25\%$. Ensure that you follow the Author Guideline precisely, submit the paper on time, follow the review process carefully, and complete the registration fee.

The deadline for paper submission is on 15 of August, 2022 at 23.59 WIB (GMT+7). You can submit your paper at: <https://ipb.link/icnf2022manuscriptsubmission>

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Prof. Dr. Ir. Ali Khomsan, MS

Head of Scientific Committee of ICNF 2022

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Name of First Author *

Aslis Wirda Hayati

Email of First Author *

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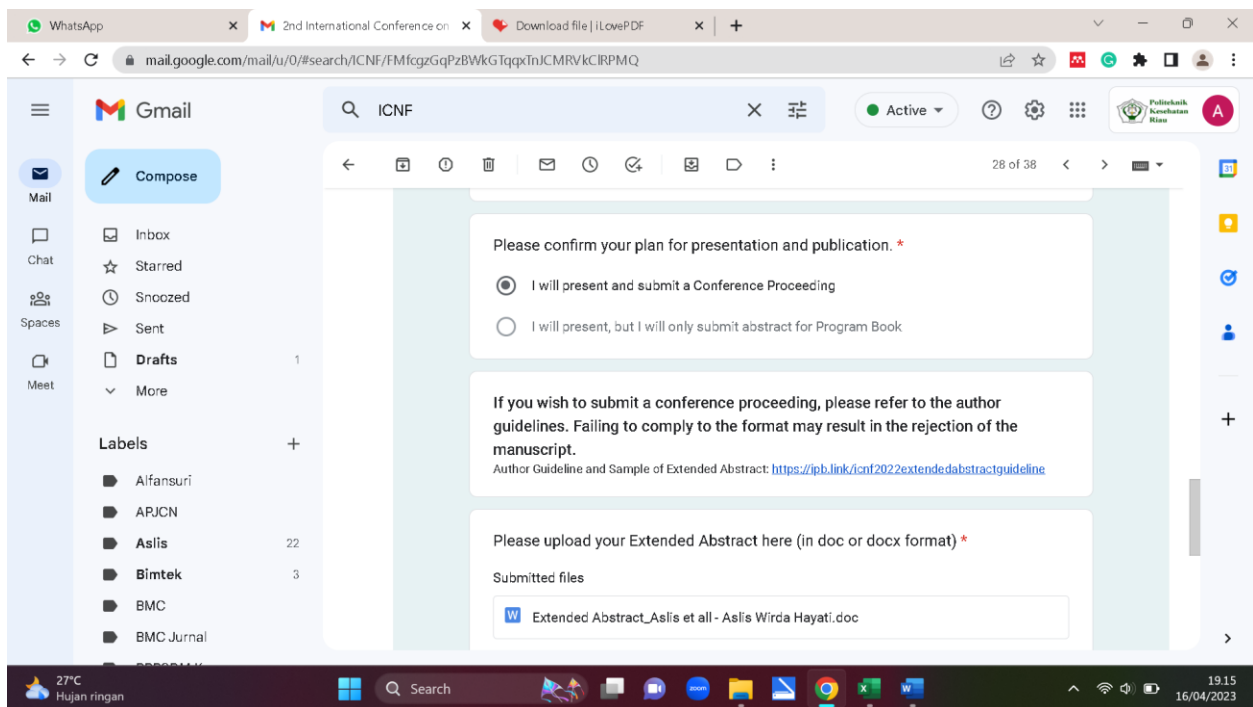
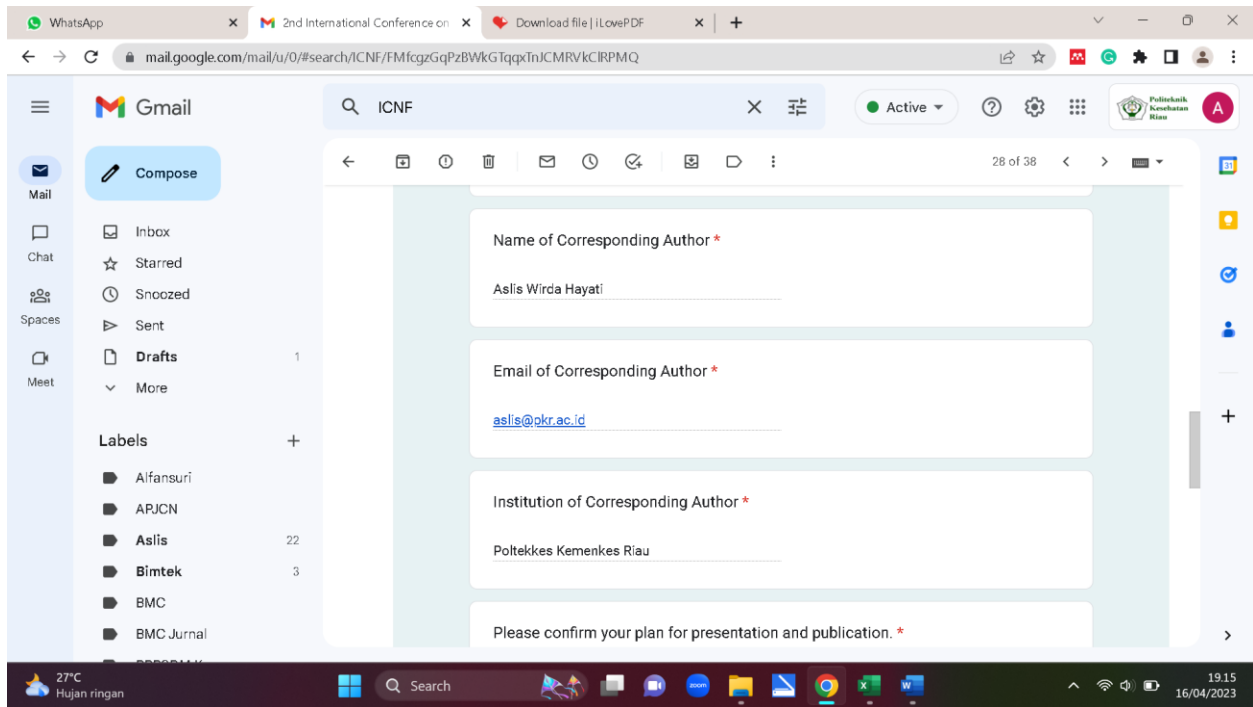
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Based on the 1st review performed on your manuscript by our Scientific Committee, please find the attached files:

- Results of review process (comments & suggestions) of your manuscript
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For your manuscript to be selected for our publication, please ensure that:

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Failure to fulfill any of the above requirements may result in rejection of your manuscript.

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- mark the changes you have done on your manuscript with yellow highlight

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 Paper title : Urinary Pyridinium Crosslinks as a Sensitive Biomarker of Linear Growth in Adolescents
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| 2 | Summary - Max 100 words - Contains introduction, method, results, and conclusion | | No conclusion. Method is not clear, what kind of nutrition intervention. How long was the intervention. |
| 3 | Keywords - Max. 5 words/phrases - Relevant to content | | The first keyword is too long. |
| 4 | Introduction - Max 150 words - Contains background, research gap, and objectives | | Please state the objective of this study. The explanation on Pyd urine could be deliver more concise. |
| 5 | Materials and Methods - Max 150 words | Line 36-38 Line 40 Line 41 Line 43 Line 47 | There should be 2 intervention groups → those who received the snack and milk and the control group. What intervention was given to the control group? Then before and after the intervention the 4 indicators of linear growth were evaluated and compared. What is the snack given to the subjects? How long was the intervention (in days/weeks/months)? Microtoa → microtoise At what time were urine collected? First urine in the morning or else? The analysis were paired samples. Could Anova be used for this type of analysis? |
| 6a | Results and Discussion - Max 300 words | Line 52 | Radiological bone mass → in the method it is stated that bone mass was obtain from a Sylim model scale, not radiological examination. |
| 6b | Tables/ Graphs - Max 3 | | Should be analyse again since the design of study is not suited for this study (please see comment on the intervention groups in the |

| | | | |
|----|---|--|---|
| | | | method section) |
| 7 | Conclusions - Max 50 words | | The conclusion is misleading, not in accordance with the objective. |
| 8 | Acknowledgements (optional) | | - |
| 9 | List of references - Max 5 | | Please use references not older than 10 years. |
| 10 | Other aspects - Language - ...(filled by reviewer as needed) | | |

Date of review completion: September 1, 2022

Urinary Pyridinium Crosslinks as a Sensitive Biomarker of Linear Growth in Adolescents

Summary

Urinary pyridinium crosslinks (Pyd) is a sensitive biomarker of linear growth. This study evaluated the sensitivity of four linear growth indicators: height, body energy, bone mass, and Pyd urine. This study measured linear growth in stunted and normal adolescents before and after nutrition intervention. There was no difference in average results of nutrition interventions on linear growth among groups of adolescents using bone mass and body energy indicators. The change in adolescents' height was not convincing through measuring efficacy of nutrition interventions. The Pyd urine of stunted adolescents before nutrition intervention was significantly different from Pyd urine of normal adolescents.

Keywords

Efficacy of nutritional intervention measurement, Height, Pyridinium crosslinks, Biomarker of stunting, Midmorning snack

Introduction

The rapidly usable and convincing indicators are needed to measure efficacy of nutrition interventions related to linear growth (1). The current linear growth indicator is height (2). This indicator takes a long time to produce results from nutrition interventions and the results are not convincing. The duration of providing nutrition interventions to malnourished children (4-15 yo) to increase linear growth is 18 months to find out significant results (3). Other indicators are body energy, bone density, and Pyd urine. The two main cell types, responsible for bone renewal, are osteoblasts involved in bone formation and osteoclasts involved in bone resorption. The balance among those dictates net bone remodeling (4). Osteoclasts will absorb bone in about 3 weeks to form tunnels with length of several millimeters. After 3 weeks, osteoblasts begin to form new bone which lasts for several months. Osteoclastic cells dissolve Pyd and release it into the urine (5).

Materials and Methods

The research design was a quasi-experimental pre-post test. The samples were 78 selected teenagers (12-15 yo) at SMPN 1 Kampar in Riau Province. There were four treatment groups: stunted respondents before and after nutrition intervention, normal respondents before and after nutrition intervention. The indicators of nutrition status were height, bone mass, body energy, and Pyd urine. As nutritional interventions, midmorning snack and milk were given in January to March 2022 (as additional energy; 30% recommended dietary allowance). Height gauges (microtoa) used STATURE METER 2M GEA. Bone mass and body energy were measured by using Sylim Model Scale No. BFS 712PH. Urines were collected with sterile urine container of OneMed 60ml. Adolescents' urines were collected by Prodia. Analysis of urine samples was carried out by Prodia Center in Jakarta. Measurements of Pyd were performed with the use of MicroVue™ PYD EIA kit, using a Spectrophotometer. Anova was applied for statistical analysis.

Result and Discussion

50 Measuring efficacy of nutrition interventions on linear growth of adolescents by using
51 Pvd urine biomarker was more sensitive than anthropometric height, food intake
52 energy of body, and radiological bone mass. There was no difference in average
53 results of linear growth among groups of adolescents on body energy and bone
54 mass ($p > 0.01$); Conversely, there was a difference in average results of linear
55 growth among groups of adolescents on height and Pvd urine ($p < 0.01$) (Table 1).
56 The average changes in height of stunted and normal adolescents before and after
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PAPER REVIEW FORM

Reviewer code : 08
 Paper registration no. : PD060COO
 Paper title : Urinary Pyridinium Crosslinks as a Sensitive Biomarker of Linear Growth in Adolescents
 Review cycle : 01

***total pages maximum 3 pages**

| No. | Part of paper | Specific sub-heading or line no. | Comment/Suggestion |
|-----|---|--|---|
| 1 | Paper title | | The paper title is misleading, since the result only showed difference before intervention. Please give a title based on the result or objective of the study. |
| 2 | Summary - Max 100 words - Contains introduction, method, results, and conclusion | | No conclusion. Method is not clear, what kind of nutrition intervention. How long was the intervention. |
| 3 | Keywords - Max. 5 words/phrases - Relevant to content | | The first keyword is too long. |
| 4 | Introduction - Max 150 words - Contains background, research gap, and objectives | | Please state the objective of this study. The explanation on Pyd urine could be deliver more concise. |
| 5 | Materials and Methods - Max 150 words | Line 36-38 Line 40 Line 41 Line 43 Line 47 | There should be 2 intervention groups → those who received the snack and milk and the control group. What intervention was given to the control group? Then before and after the intervention the 4 indicators of linear growth were evaluated and compared. What is the snack given to the subjects? How long was the intervention (in days/weeks/months)? Microtoa → microtoise At what time were urine collected? First urine in the morning or else? The analysis were paired samples. Could Anova be used for this type of analysis? |
| 6a | Results and Discussion - Max 300 words | Line 52 | Radiological bone mass → in the method it is stated that bone mass was obtain from a Sylim model scale, not radiological examination. |
| 6b | Tables/ Graphs - Max 3 | | Should be analyse again since the design of study is not suited for this study (please see comment on the intervention groups in the |

| | | | |
|----|---|--|---|
| | | | method section) |
| 7 | Conclusions - Max 50 words | | The conclusion is misleading, not in accordance with the objective. |
| 8 | Acknowledgements (optional) | | - |
| 9 | List of references - Max 5 | | Please use references not older than 10 years. |
| 10 | Other aspects - Language - ...(filled by reviewer as needed) | | |

Date of review completion: September 1, 2022

Urinary Pyridinium Crosslinks as a Sensitive Biomarker of Linear Growth in Adolescents

Summary

Urinary pyridinium crosslinks (Pyd) is a sensitive biomarker of linear growth. This study evaluated the sensitivity of four linear growth indicators: height, body energy, bone mass, and Pyd urine. This study measured linear growth in stunted and normal adolescents before and after nutrition intervention. There was no difference in average results of nutrition interventions on linear growth among groups of adolescents using bone mass and body energy indicators. The change in adolescents' height was not convincing through measuring efficacy of nutrition interventions. The Pyd urine of stunted adolescents before nutrition intervention was significantly different from Pyd urine of normal adolescents.

Keywords

Efficacy of nutritional intervention measurement, Height, Pyridinium crosslinks, Biomarker of stunting, Midmorning snack

Introduction

The rapidly usable and convincing indicators are needed to measure efficacy of nutrition interventions related to linear growth (1). The current linear growth indicator is height (2). This indicator takes a long time to produce results from nutrition interventions and the results are not convincing. The duration of providing nutrition interventions to malnourished children (4-15 yo) to increase linear growth is 18 months to find out significant results (3). Other indicators are body energy, bone density, and Pyd urine. The two main cell types, responsible for bone renewal, are osteoblasts involved in bone formation and osteoclasts involved in bone resorption. The balance among those dictates net bone remodeling (4). Osteoclasts will absorb bone in about 3 weeks to form tunnels with length of several millimeters. After 3 weeks, osteoblasts begin to form new bone which lasts for several months. Osteoclastic cells dissolve Pyd and release it into the urine (5).

Materials and Methods

The research design was a quasi-experimental pre-post test. The samples were 78 selected teenagers (12-15 yo) at SMPN 1 Kampar in Riau Province. There were four treatment groups: stunted respondents before and after nutrition intervention, normal respondents before and after nutrition intervention. The indicators of nutrition status were height, bone mass, body energy, and Pyd urine. As nutritional interventions, midmorning snack and milk were given in January to March 2022 (as additional energy; 30% recommended dietary allowance). Height gauges (microtoa) used STATURE METER 2M GEA. Bone mass and body energy were measured by using Sylim Model Scale No. BFS 712PH. Urines were collected with sterile urine container of OneMed 60ml. Adolescents' urines were collected by Prodia. Analysis of urine samples was carried out by Prodia Center in Jakarta. Measurements of Pyd were performed with the use of MicroVue™ PYD EIA kit, using a Spectrophotometer. Anova was applied for statistical analysis.

Result and Discussion

Commented [A1]: Please improve your title and measuring Pyd as a biomarker for linear growth was not the main intention of this study....

Commented [A2]: What is this? Please be specific

Commented [A3]: Is this an intervention study? If yes, what was the intervention like?

Commented [A4]: Why not convincing? What are the barriers?

Commented [A5]: Improvement in bone take a long time too!

Commented [A6]: How many months? Be specific!

Commented [A7]: Do you mean 2 groups?

Commented [A8]: Why snack and milk? What were the adherence like?

Commented [A9]: Rephrase

Commented [A10]: rephrase

Commented [A11]: Rephrase
Why anova? Not t-test since only two groups?

50 Measuring efficacy of nutrition interventions on linear growth of adolescents by using
51 Pyd urine biomarker was more sensitive than anthropometric height, food intake
52 energy of body, and radiological bone mass. There was no difference in average
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75 bone resorption in stunted adolescents.

Commented [A12]: How was this determined?

Commented [A13]: Children/adolescents do grow anyway!

Commented [A14]: But this was reflected in overall height improvements? Why so?

Commented [A15]: Is this correct?

Commented [A16]: It can be the marker but not necessarily improves height/stunting!

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PAPER FORMAT REVIEW

Paper registration no. : PD060COP

Paper title : Urinary Pyridinium Crosslinks as a Sensitive Biomarker of Linear Growth in Adolescents

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| 8 | Keywords | Yes | |
| 9 | Introduction | Yes | |
| 10 | Materials and methods | Yes | |
| 11 | Results & discussion | Yes | |
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References

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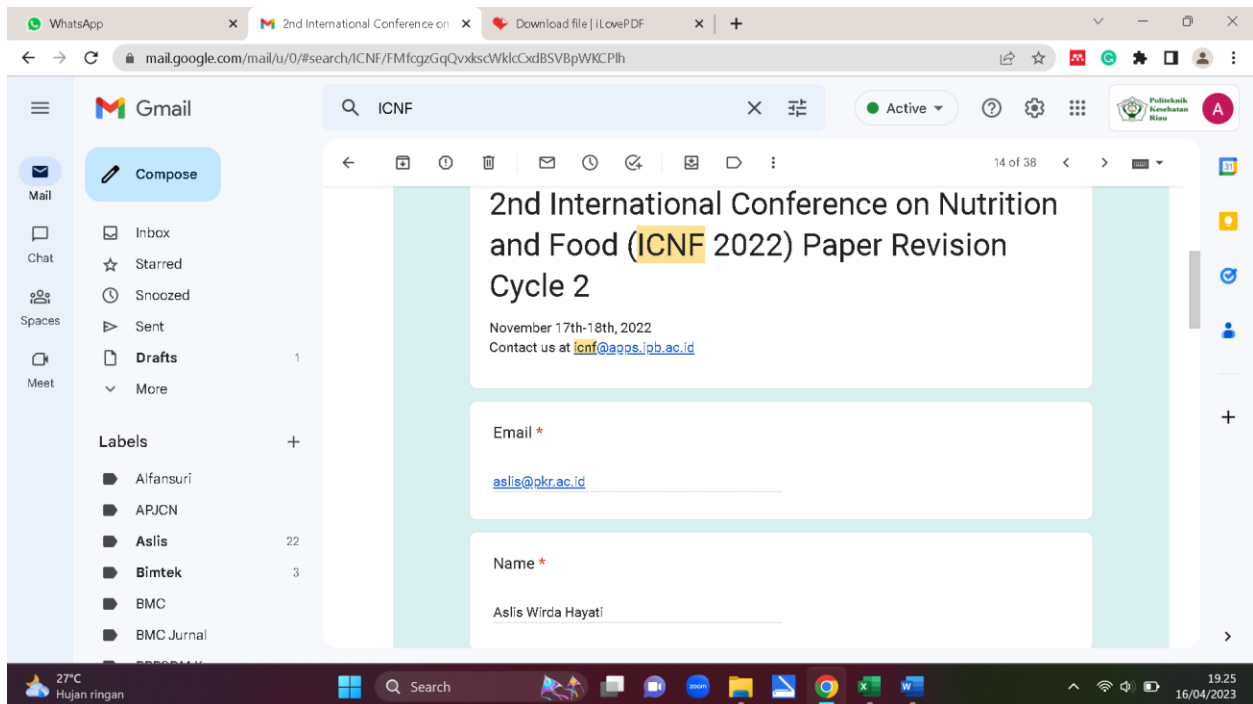
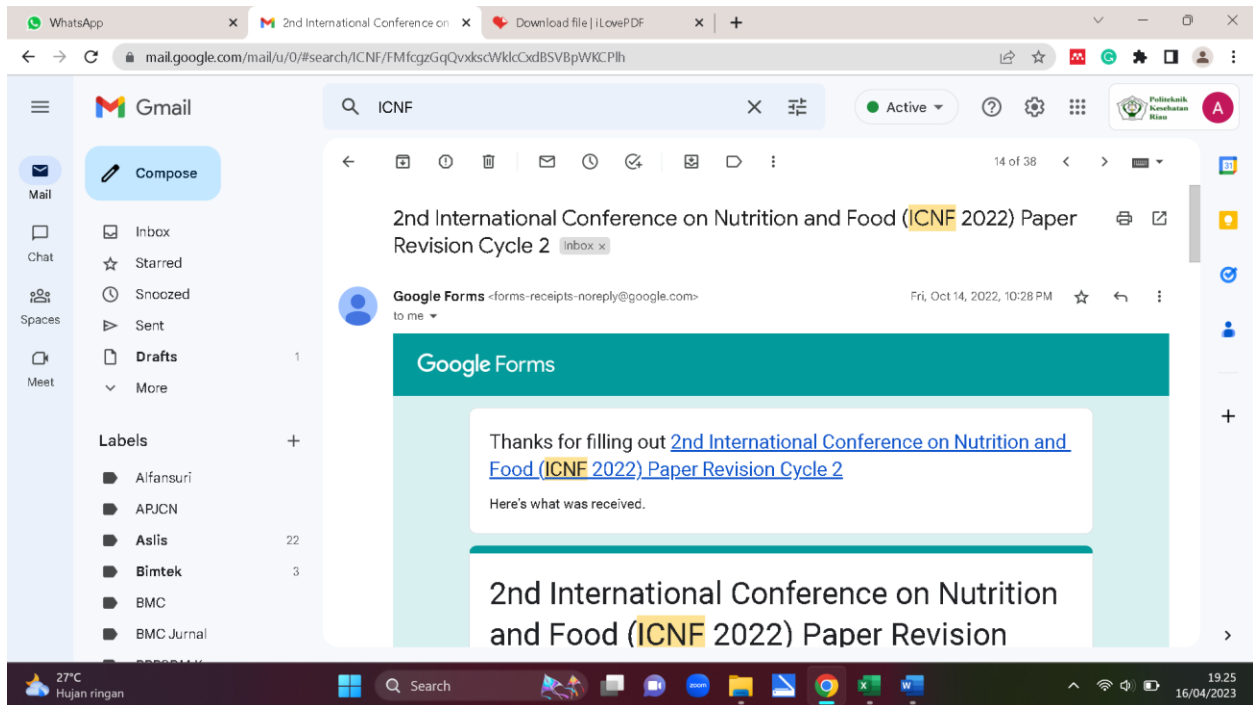
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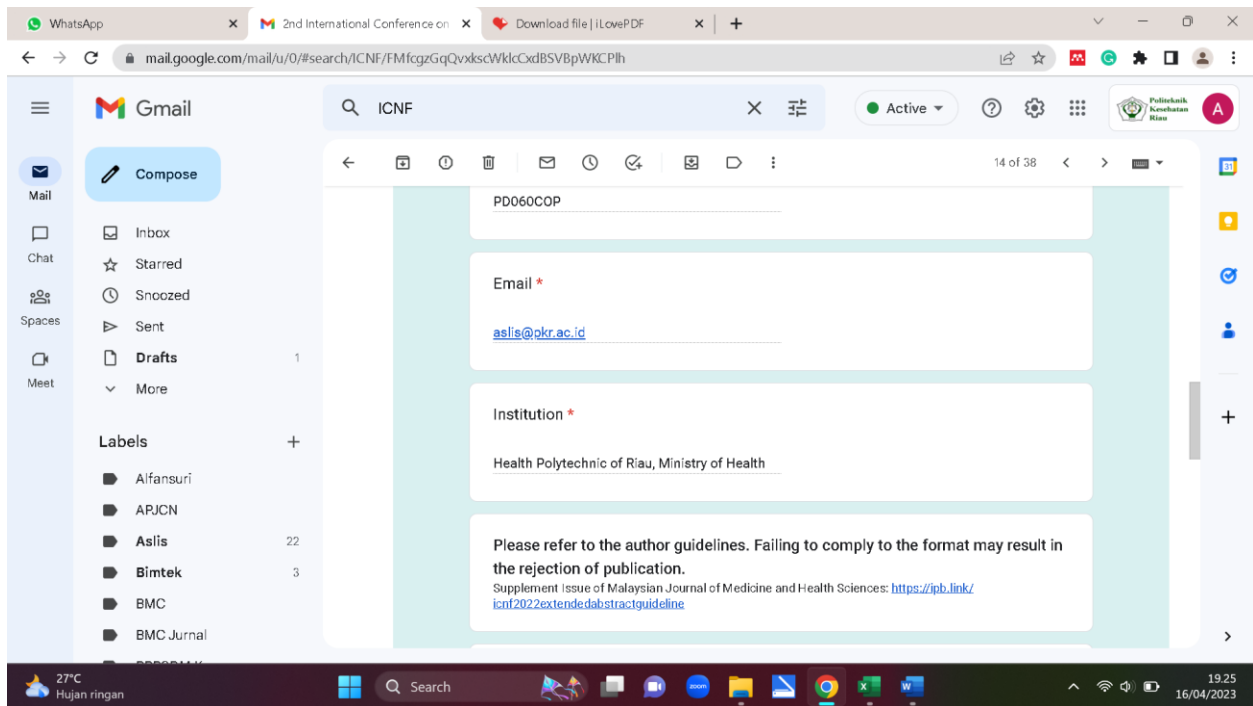
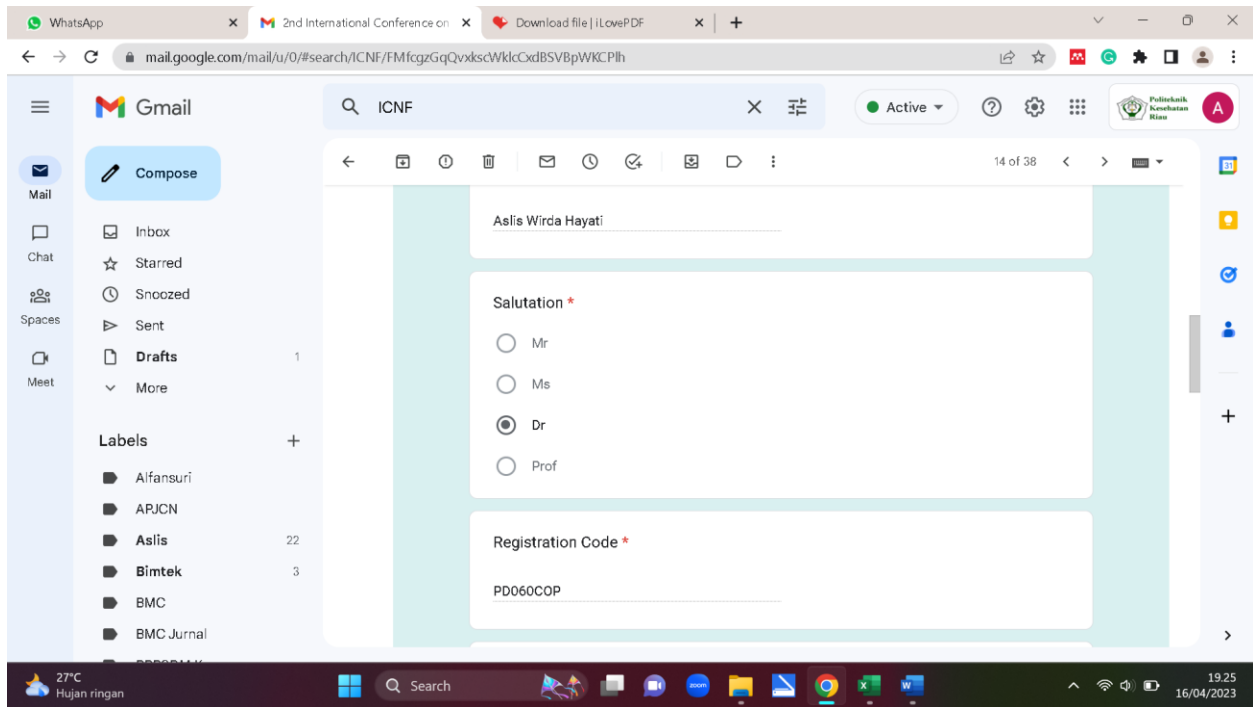
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ICNF IPB <icnf@apps.ipb.ac.id> Fri, Oct 28, 2022, 4:58 PM

to ariesulaeman, ariesulaeman, zuraidah, bcc: me

Dear participant of ICNF 2022,

For those of you who are going to present your research results at ICNF 2022, we would like to remind you regarding the preparation of your oral/poster presentation. We strongly encourage you to prepare a pre-recorded presentation to avoid internet connection problems and you can be ready at your designated session for Q&A. The guideline to prepare the pre-recorded presentation available at this link <https://ipb.link/oral-guideline>

If you choose to present live, we still require you to submit the presentation/poster materials to us through the submission form at this link <https://ipb.link/submission-oralpresentation>

Please be reminded that the due date for submission of presentation materials is on **3 Nov 2022 at 23.59 WIB (GMT +7)**.

Thank you and we are looking forward to having you at the conference.

Best regards,

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Dear participant of ICNF 2022,

Please find the results of 3rd review performed on your manuscript by our Scientific Committee. The reviewers saw that you still have several points for improvement in terms of the content of your manuscript as detailed in the attached file.

To do the manuscript revision, please:

- use the Response to Reviewer Form
- mark the changes you have done on your manuscript with yellow highlight

The deadline for submission of revised manuscript is on 4 November 2022 at 23.59 WIB (GMT+7). You can upload your revised manuscript here: <https://ipb.link/icnf2022paperrevisioncycle3>

Thank you for your interest in joining ICNF 2022. Your presentation is an important part of the conference and we are looking forward to meeting you there.

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use the response to reviewer 1 and mark the changes you have done on your manuscript with yellow highlight

The deadline for submission of revised manuscript is on 4 November 2022 at 23.59 WIB (GMT+7). You can upload your revised manuscript here: <https://ipb.link/icnf2022paperrevisioncycle3>

Thank you for your interest in joining ICNF 2022. Your presentation is an important part of the conference and we are looking forward to meeting you there.

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PAPER DECISION FORM

Reviewer code : R07

Paper registration code : PD060COP

Paper title : Urinary Pyridinium Crosslinks as a Convincing Biomarker of Linear Growth in Adolescents

Cycle : 3

Decision : (reviewer to select one)

- a) Full acceptance for publication without any revision in content
- b) Conditional acceptance if authors perform minor revision as suggested within one week (deadline: 4 November 2022), with the following comments**

| No. | Part of paper | Comment/Suggestion |
|-----|--|--|
| 1 | Paper title | - |
| 2 | Summary <ul style="list-style-type: none">- Should be an informative summary of the manuscript.- Contains introduction, method, main results, and conclusions. | The summary is more than 100 words. The value of the AUC should be mentioned. |
| 3 | Keywords <ul style="list-style-type: none">- Relevant to content and identify the paper's subject, purpose and focus. | - |
| 4 | Introduction <ul style="list-style-type: none">- Contains background, research gap, and objectives | Line 41-44: it is stated that the objective is for "early detection of stunting" then why the population of study is adolescent aged 12-15 yo? Stunting could not be corrected properly during adolescent age although it is puberty age where there will be the second growth spurt. The introduction is more than 150 words |
| 5 | Materials and Methods <ul style="list-style-type: none">- Should provide sufficient detail to allow the work to be reproduced- Methods that are already published should be indicated by a reference, and only relevant modifications that are | It is not clear why the measurement should be twice with two months interval. Since you have decided that it is a diagnostic study with cross-sectional design, there should be only 1 (one) time point of measurement. |



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| | <p>described</p> <ul style="list-style-type: none">- Source of material must be given- Statistical methods must be specified | The materials and methods is more than 150 words |
| 6a | <p>Results and Discussion</p> <ul style="list-style-type: none">- Results should be clear and presented concisely, using well-designed tables and/or figures- The same data cannot be used in both styles: table and figure (repetition of data display).- Discussion should explore the significance of the results of the work and cover the implications and consequences, not only repeating the results | In accordance with the comments in the method section, there should be revision in the narration of the results, table, and figure to be only 1 time point. |
| 6b | <p>Tables/ Graphs</p> <ul style="list-style-type: none">- Must contain figure/table title- Should contain figure legends or table notes, if necessary- Appropriate statistical data should be given | In accordance with the comments in the method section, there should be revision in the narration of the results, table, and figure to be only 1 time point. |
| 7 | <p>Conclusions</p> <ul style="list-style-type: none">- Should not be a summary of the method and the study (this is already presented in the summary).- Should identify important outcomes and their implication for the area of study, or recommendations for further research. | The AUC between 0.7 to 0.8 is considered acceptable, 0.8 to 0.9 is considered excellent, and more than 0.9 is considered outstanding. Therefore, I think the conclusion should not directly state that Pyd is better than height. This sentence in Line 94: "The urinary Pyd is better than height measurement to assess stunting" should be deleted. |
| 8 | <p>Acknowledgements</p> <ul style="list-style-type: none">- Optional- Mention contributions that need to be acknowledged, but do not justify authorship (for example: research funding agencies and individuals who provided help during the research) | - |
| 9 | <p>List of references</p> | - |



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| | - Should be relevant to the study | |
| 10 | Other aspects <ul style="list-style-type: none">- Language- ... (filled by reviewer as needed) | |

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IPB University
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PAPER DECISION FORM

Reviewer code : R07

Paper registration code : PD060COP

Paper title : Urinary Pyridinium Crosslinks as a Convincing Biomarker of Linear Growth in Adolescents

Cycle : 3

Decision : (reviewer to select one)

- a) Full acceptance for publication without any revision in content
- b) Conditional acceptance if authors perform minor revision as suggested within one week (deadline: 4 November 2022), with the following comments**

| No. | Part of paper | Comment/Suggestion |
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| 1 | Paper title | - |
| 2 | Summary <ul style="list-style-type: none">- Should be an informative summary of the manuscript.- Contains introduction, method, main results, and conclusions. | The summary is more than 100 words. The value of the AUC should be mentioned. |
| 3 | Keywords <ul style="list-style-type: none">- Relevant to content and identify the paper's subject, purpose and focus. | - |
| 4 | Introduction <ul style="list-style-type: none">- Contains background, research gap, and objectives | Line 41-44: it is stated that the objective is for "early detection of stunting" then why the population of study is adolescent aged 12-15 yo? Stunting could not be corrected properly during adolescent age although it is puberty age where there will be the second growth spurt. The introduction is more than 150 words |
| 5 | Materials and Methods <ul style="list-style-type: none">- Should provide sufficient detail to allow the work to be reproduced- Methods that are already published should be indicated by a reference, and only relevant modifications that are | It is not clear why the measurement should be twice with two months interval. Since you have decided that it is a diagnostic study with cross-sectional design, there should be only 1 (one) time point of measurement. |



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| | <p>described</p> <ul style="list-style-type: none"> - Source of material must be given - Statistical methods must be specified | The materials and methods is more than 150 words |
| 6a | <p>Results and Discussion</p> <ul style="list-style-type: none"> - Results should be clear and presented concisely, using well-designed tables and/or figures - The same data cannot be used in both styles: table and figure (repetition of data display). - Discussion should explore the significance of the results of the work and cover the implications and consequences, not only repeating the results | In accordance with the comments in the method section, there should be revision in the narration of the results, table, and figure to be only 1 time point. |
| 6b | <p>Tables/ Graphs</p> <ul style="list-style-type: none"> - Must contain figure/table title - Should contain figure legends or table notes, if necessary - Appropriate statistical data should be given | In accordance with the comments in the method section, there should be revision in the narration of the results, table, and figure to be only 1 time point. |
| 7 | <p>Conclusions</p> <ul style="list-style-type: none"> - Should not be a summary of the method and the study (this is already presented in the summary). - Should identify important outcomes and their implication for the area of study, or recommendations for further research. | The AUC between 0.7 to 0.8 is considered acceptable, 0.8 to 0.9 is considered excellent, and more than 0.9 is considered outstanding. Therefore, I think the conclusion should not directly state that Pyd is better than height. This sentence in Line 94: "The urinary Pyd is better than height measurement to assess stunting" should be deleted. |
| 8 | <p>Acknowledgements</p> <ul style="list-style-type: none"> - Optional - Mention contributions that need to be acknowledged, but do not justify authorship (for example: research funding agencies and individuals who provided help during the research) | - |
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| | - Should be relevant to the study | |
| 10 | Other aspects <ul style="list-style-type: none">- Language- ... (filled by reviewer as needed) | |

Date of review completion: October 28, 2022

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ICNF IPB <icnf@apps.ipb.ac.id> to ariesulaeman, ariesulaeman, zuraidah, resaanadina, bcc: me

Dear participant of ICNF 2022,

Please find the attached files:

1. Conference Schedule
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3. Guideline for Oral presentation
4. Guideline for Poster presentation

To avoid internet connection problems, we strongly encourage you to prepare a pre-recorded PowerPoint presentations with audio and you can be ready at your designated session for Q&A. You may also choose to present live, but we still encourage you to send the presentation slides to us.

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Thank you and we are looking forward to having you at the conference.

Best regards,

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Best regards,

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Dear participants of ICNF 2022,

Please find the attached Programme Book (including the Book of Abstracts) of the IPB ICNF 2022. Kindly re-check your presentation schedule and make sure that you enter the correct Zoom meeting room at least 15 minutes before the session starts.

Please also be aware that the conference will be started with a pre-conference workshop by Prof. Dr. Vimal Karani today (16 November 2022) at 3.00-4.30 pm (GMT+7). All participants are welcome to join the workshop.

Kindly remember that you need to name your Zoom account as "Registration code_Name" (e.g. PD004FOO_Eny Palupi) to allow us to recognize each participant.

Thank you and we are looking forward to seeing you at the conference.

Best regards,

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Dear Participants of 2nd ICNF 2022,

On behalf of the Department of Community Nutrition, Faculty of Human Ecology, IPB University, we would like to express our sincere appreciation for your time and interest to attend our 2nd International Conference on Nutrition and Food (ICNF) on 17-18 Nov 2022.

Please find the attached certificate of your oral presenter
<https://drive.google.com/file/d/1GH0OPK6oTGjb3SnpRlMlqUdof8cPyKj/view?usp=drivesdk>

Please also kindly allocate a short time to fill out this questionnaire to evaluate the conference so we can improve the quality of the next ICNF: <https://ipb.link/icnf2022evaluationform>

Once again, we sincerely appreciate your presence in this conference and looking forward to see you again in our next upcoming events.

Thank you and stay safe!

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Thank you for joining ICNF 2022.

Regards,

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Please also kindly help us to fill out this questionnaire to evaluate the conference so we can improve the quality of the next ICNF: <https://ipb.link/icnf2022evaluationform>

Thank you and hope to see you at the next ICNF

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