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### Anti-HMG-CoA reductase and antioxidant activities of Sacha inchi (*Plukenetia volubilis* L.) nutshell extract

Prasongsu, Wattapanong<sup>a</sup>; Pimsan, Nattaporn<sup>a</sup>;  
 Buranapattarachote, Chantanatda<sup>a</sup>; Punturee, Khanittha<sup>a, b</sup>

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**Abstract**  
 Background: Hypercholesterolemia is one of the major risks of cardiovascular diseases (CVDs). Hypercholesterolemia and oxidative stress are involved in the pathogenesis of atherosclerosis. Thailand has high percentage of unawareness of hypercholesterolemia, with low percentage of treatment and control. HMG-CoA reductase is a rate limiting step enzyme in cholesterol biosynthesis. Synthetic drugs such as statin are normally used to lower cholesterol level, however it causes adverse effects on the liver and muscle. Thus, HMG-CoA reductase inhibitors of plant origin are needed. *Plukenetia volubilis* Linneo

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### Content validity and psychometric characteristics of the Thai translated version of the physical activity questionnaire for children (PAQ-C) and adolescents (PAQ-A)

Pratanaphon, Sainatee<sup>a</sup> ; Longlalerng, Khomkrip<sup>b</sup>; Jitmana, Jutamata<sup>c</sup>;  
 Chaikla, Kongnapa<sup>a</sup>; Nankanya, Thanchanok<sup>a</sup>; Pirunsan, Ubon<sup>a</sup>;  
 Boontha, Natharin<sup>a</sup>

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<sup>b</sup> School of Allied Health Sciences, Walailak University, Nakhon Si Thammarat province, Thailand

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**Abstract**  
 Background: Physical inactivity in young people which increases with age have been linked to increased risks of non-communicable diseases. Therefore, assessment and monitoring of physical activity (PA) in young populations is needed. However, a valid and feasible self-report measure for large-scale PA for Thai children and adolescents is limited. Objectives: To determine the content validity and psychometric characteristics of the Thai translated version of the Physical Activity

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 Sudjaritruk, T., Kanjanavanit, S., Chaito, T. (2023) *Journal of Adolescent Health*

Psychometric properties of the Arabic version of Physical Activity Questionnaire for Adolescents (PAQ-A)  
 Bajamal, E., Robbins, L.B. (2023) *Applied Nursing Research*

Feasibility of inspiratory muscle training to improve pulmonary and respiratory muscle function, and for attenuating sleep apnea symptoms in children and adolescent with obstructive sleep apnea and obesity: Case report  
 Sornkita, S., Somsuwan, N., Pratanaphon, S. (2022) *Journal of Associated Medical Sciences*

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 Voss, C., Dean, P.H., Gardner, R.F. (2017) *PLOS ONE*

Adaptation and validation of the Physical Activity Questionnaire for Older Children (PAQ-C) among Czech

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