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Volume 9, Issue 9, September 2018, Pages 120-125

## Goiter and hypothyroidism among elementary school children in lowland agricultural area, Brebes district Indonesia (Article)

Kartini, A.<sup>a</sup>, **Suhartono<sup>b</sup>**, [✉](#) Pangestuti, D.R.<sup>a</sup>, Sakundarno Adi, M.<sup>c</sup>, Suratman<sup>d</sup>, Rasipin<sup>e</sup> [✎](#)<sup>a</sup>Department of Public Health Nutrition, Faculty of Public Health, Diponegoro University, Semarang, Indonesia<sup>b</sup>Department of Environmental Health, Faculty of Public Health, Diponegoro University, Semarang, Indonesia<sup>c</sup>Department of Epidemiology, Faculty of Public Health, Diponegoro University, Semarang, Indonesia[View additional affiliations](#) ▾

### Abstract

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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 µg/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). © 2018, Indian Journal of Public Health Research and Development. All rights reserved.

### SciVal Topic Prominence ⓘ

Topic: Iodine Deficiency | Iodized Salt | Thyroid Function

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### Author keywords

[Agricultural area](#) [Children](#) [Goiter](#) [Hypothyroidism](#) [Indonesia](#)

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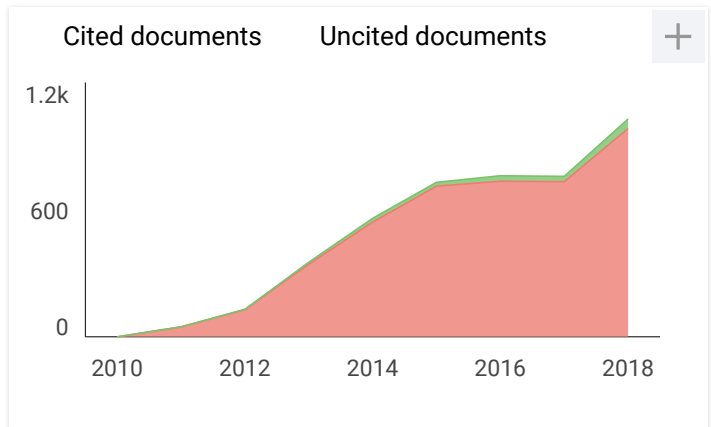
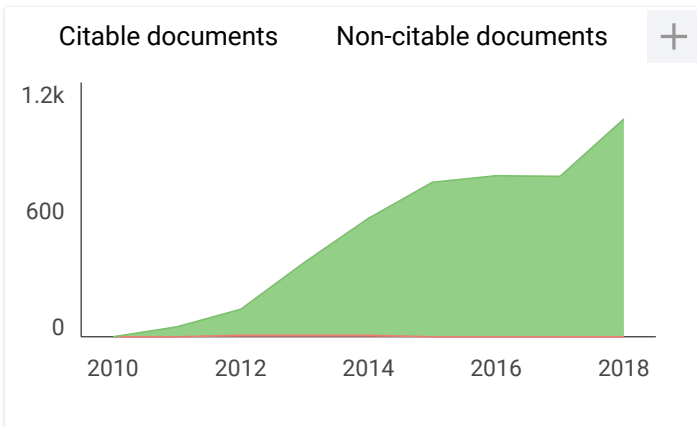
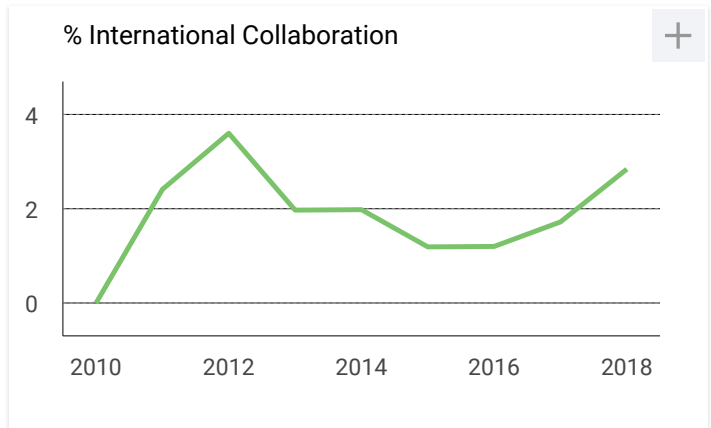
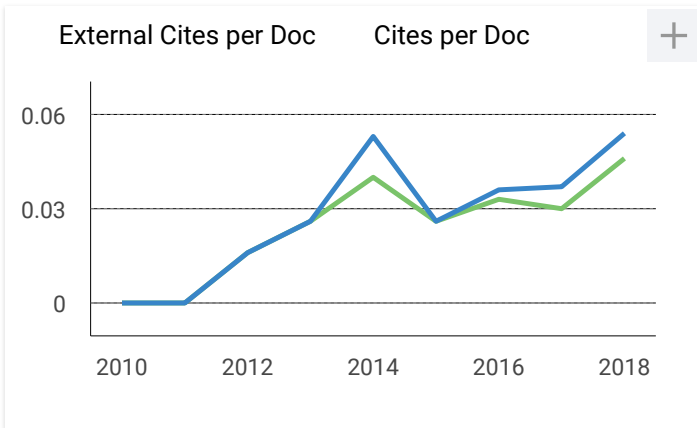
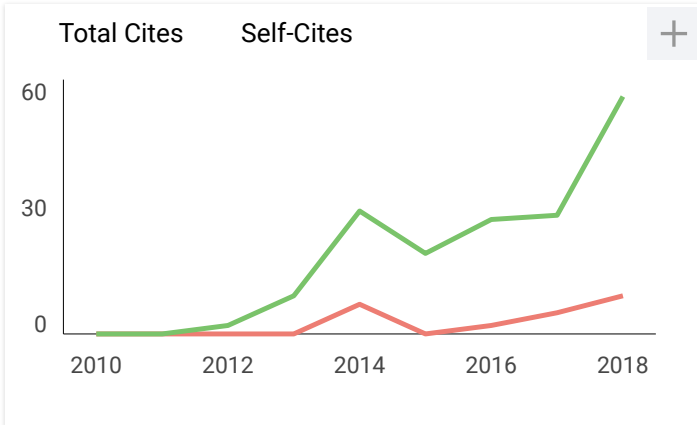
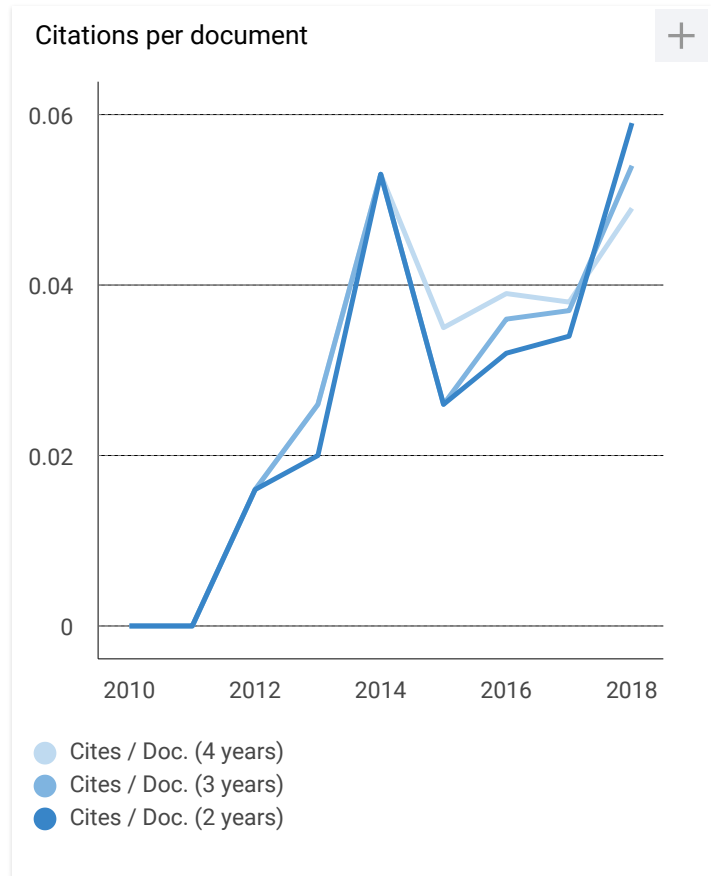
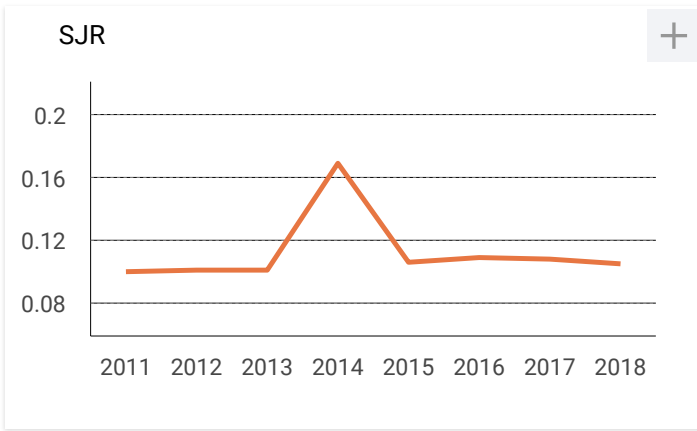
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## Goiter and hypothyroidism among elementary school children in lowland agricultural area, Brebes District Indonesia

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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 µg/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.

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