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Association of metformin use with vitamin B12 deficiency in the institutionalized elderly

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Highlights

- Metformin increased the risk of vitamin B₁₂ deficiency in the institutionalized elderly, in which the prevalence of vitamin B₁₂ deficiency in metformin users was higher than the non-metformin user.
- Metformin increased also the severity of vitamin B₁₂ deficiency. Among the vitamin B₁₂ deficient group, metformin users had a lower serum vitamin B₁₂ concentration than the non-metformin users.
- Risk of vitamin B₁₂ deficiency increased with greater dosage and longer duration of metformin use. The prevalence of deficiency for those taking metformin ≥1500mg /day for >2 years was more than 2 times that of those taking metformin <1500mg/day for ≤2 years.

Abstract

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