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## Case series on level of folic acid, vitamin b12, vitamin d, lipid profile in patients on metformin in type 2 diabetes mellitus

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**D**iabetes is the metabolic disorder in India because more than 62 million diabetic individuals currently diagnosed with the disease which is characterized by hyperglycemia due to defects in the insulin secretion or sensitivity or both. In the type 2 diabetes mellitus patients, the “Metformin” is considered as gemstone due to its numerous clinical benefits like better glycemic control, use in treatment of polycystic ovary syndrome, act as protective agent in cardiovascular disease especially in atherosclerosis patients when it is associated with chronic kidney disease. Instead of its beneficial effects it

may cause some consequences like dwindling or elevation in the level of folic acid, vitamin B12, vitamin D etc. Therapeutic options may be a problem in diabetes mellitus patients because it requires adjustment of doses. There are fifty cases have been reported in which patients taking metformin and by reviewing the literature on the basis of clinical presentation, diagnosis and therapeutic approach the cases illustrate decrease in level of folic acid, vitamin B12, vitamin D, increase in level of triglycerides, LDL but the HDL level diminishes.

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