Treatment using a combination of oral anti-hyperglycemic agents in type 2 diabetes mellitus

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Abstrak

Up to this moment, there urn various oral anti-hypergly-cemic (OAH) known, such ax the insulin secretagogue group of drugs, which in essence aims to increase insulin secretion by (J pancreatic culls, and the group of drags thai increases tissue sensitivity to insulin. Administration of a single drug from one of these two groups will eventually fail to achieve euglycemic control level. Instead, a combination of two kinds of OAH with different mechanism of action has been proven to significantly achieve glycemic control compared to administration of a .single agent. In addition to reducing side effects, administration of a combination nj two kinds of OAH can also postpone, the need for insulin, which is generally disliked by patients. Sulphonilurea and metformin art; among the most common drugs to be combined, but other combinations could also produce the same satisfactory effect. Combination of sulphonilurea and troghiatone does not produce expected euglycemic effect, even though ii can reduce the Hh Ah-level. Administration of 3 types of OAH is not advisable, since generally, a combination of 2 kinds oj drugs at maximum dose could no longer achieve glycemic control, even with the addition of another OAH. In addition to more side effects and higher cost, such treatment is not practical, and insulin secretion by beta cells generally can no longer be increased Patients that fail lo demonstrate satisfactory results with a combination of 2 types of 0.4 fix are advised to be treated wilh moderate-acting insulin at night ax an additional treatment, with a dose titered to achieve euglycemic control Patients receiving single treatment that could not achieve euglycemic control may receive combined treatment before reaching the maximum dose, since at maximum dose, there is generally more side-effects.