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Sample Size Calculation:

Choi et alreported the reduction of reactive oxygen species (NADPH Oxidase, NOX 4) by gemigliptin for 340units. By using independent formula with related samples, therefore

 $Z\alpha$ = Z value at level of significance 0.05 = 1.960

Zß= Z value at level of significance (0.2)=0.840

2d =Variance of reactive oxygen species before and after gemigliptin treatment

M1-M0 = Difference of reactive species before and after gemigliptin treatment =340

n =

n=100

Since this is the first study for gemigliptin for this outcome, the target number of enrolled pateints was set at 100

Citation: thananda (01/28/2021). DPP4. https://dx.doi.org/10.17504/protocols.io.brvtm66n

Reference:

Choi S,Ryu H,Oh E,Choi J,Cho J,Kim C,Kim Y,Park S.Dipeptidyl peptidase 4 inhibitor gemigliptin protevts against vascular calcification in an experimental chronic kidney disease and vascular smooth muscle cell. PLos One 2017;12(7):e0180393

Method of randomization

After enrollment, eligible patients will be randomized (1:1) by systemic random samplingby the study coordinator to either gemigliptin or control group, using envelop containing letter A or B, 2 of each letter in one envelop. Therefore one envelop will have 2 pairs of each letter such ,ABAB or BABA while A represents gemigliptin and B means control. The patients were blinded to the allocation. Only the predesigned study person will have access to the sealed randomization.