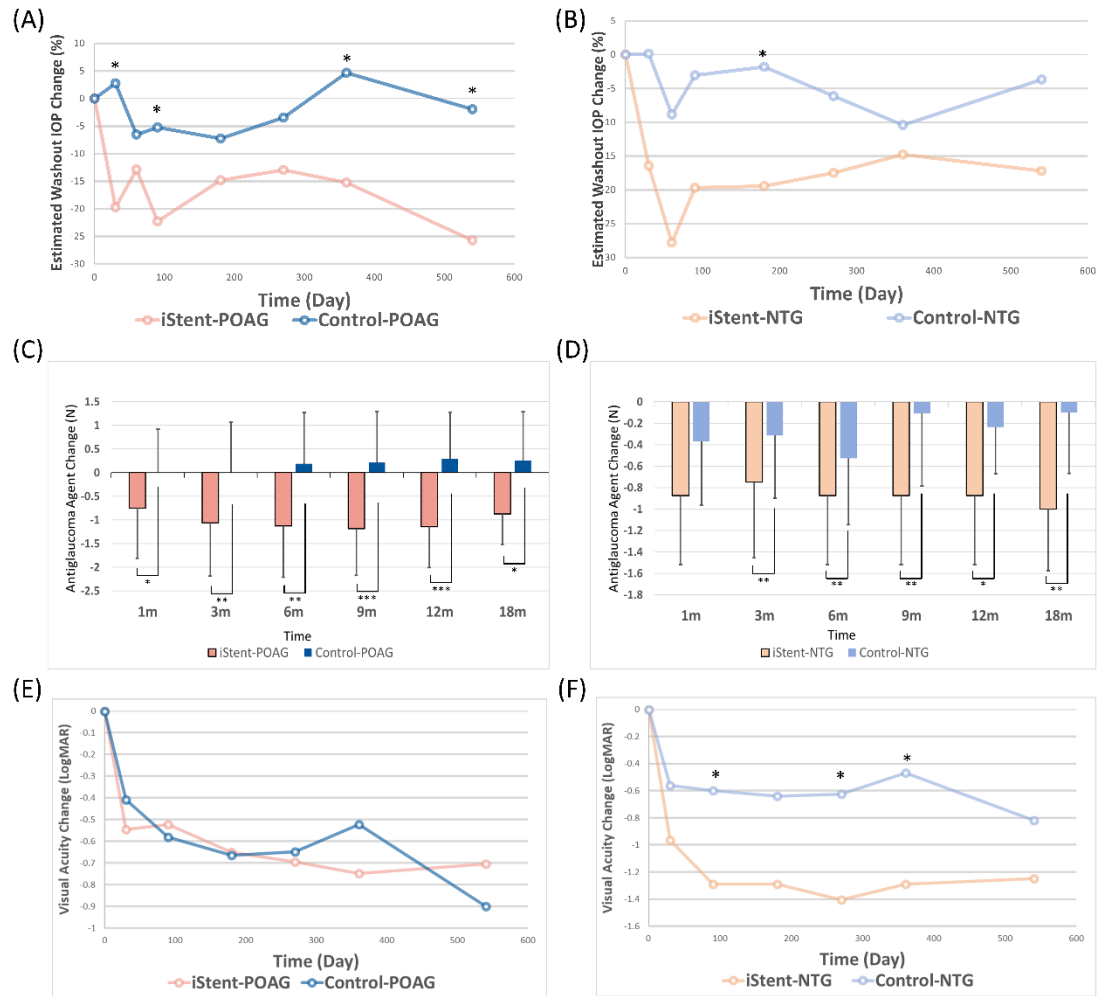




Supplemental Fig. 3 The estimated washout intraocular pressure (IOP) changes

(%), antiglaucoma agent changes, and visual acuity changes (LogMAR) in

primary open angle glaucoma (POAG) and normal tension glaucoma (NTG)

subgroup throughout the 18 months follow up. In POAG patients, the average reduction of estimated washout IOP in iStent group was greater than the control group throughout the 18 months follow up and showed significant differences at 1 month ($-19.72 \pm 25.63\%$ in iStent group and $2.76 \pm 32.43\%$ in control group, P value = 0.024), 3 months ($-22.27 \pm 14.13\%$ in iStent group and $-5.23 \pm 31.12\%$ in control group, P

value = 0.048), 12 months ($-15.23 \pm 14.75\%$ in iStent group and $4.66 \pm 27.78\%$ in control group, P value = 0.023), and 18 months ($-25.71 \pm 15.55\%$ in iStent group and $-1.95 \pm 26.80\%$ in control group, P value = 0.035). (B) In NTG patients, the average reduction of estimated washout IOP in iStent group was greater than the control group throughout the 18 months follow up but showed significant differences only at 3 months ($-19.43 \pm 7.68\%$ in iStent group and $-1.80 \pm 25.00\%$ in control group, P value = 0.012). (C) In POAG patients, the iStent group showed reduction of antiglaucoma agents after the surgery while the control group showed slightly increase of antiglaucoma agents. (D) In NTG patients, both iStent group and control group showed reduction of antiglaucoma agents after the surgery. In addition, the iStent group showed significantly better medication reduction capability than the control group. (E) In POAG patients, the iStent group and control group showed similar visual acuity improvement after the surgery. (F) In NTG patients, the iStent group showed more apparent visual acuity improvement than the control group. There were significant differences noted at 3 (-1.29 ± 0.65 in iStent group and -0.60 ± 0.32 in control group, P value = 0.020), 9 (-1.41 ± 0.72 in iStent group and -0.63 ± 0.35 in control group, P value = 0.016), and 12 (-1.29 ± 0.76 in iStent group and -0.47 ± 0.47 in control group, P value = 0.023) months follow up.