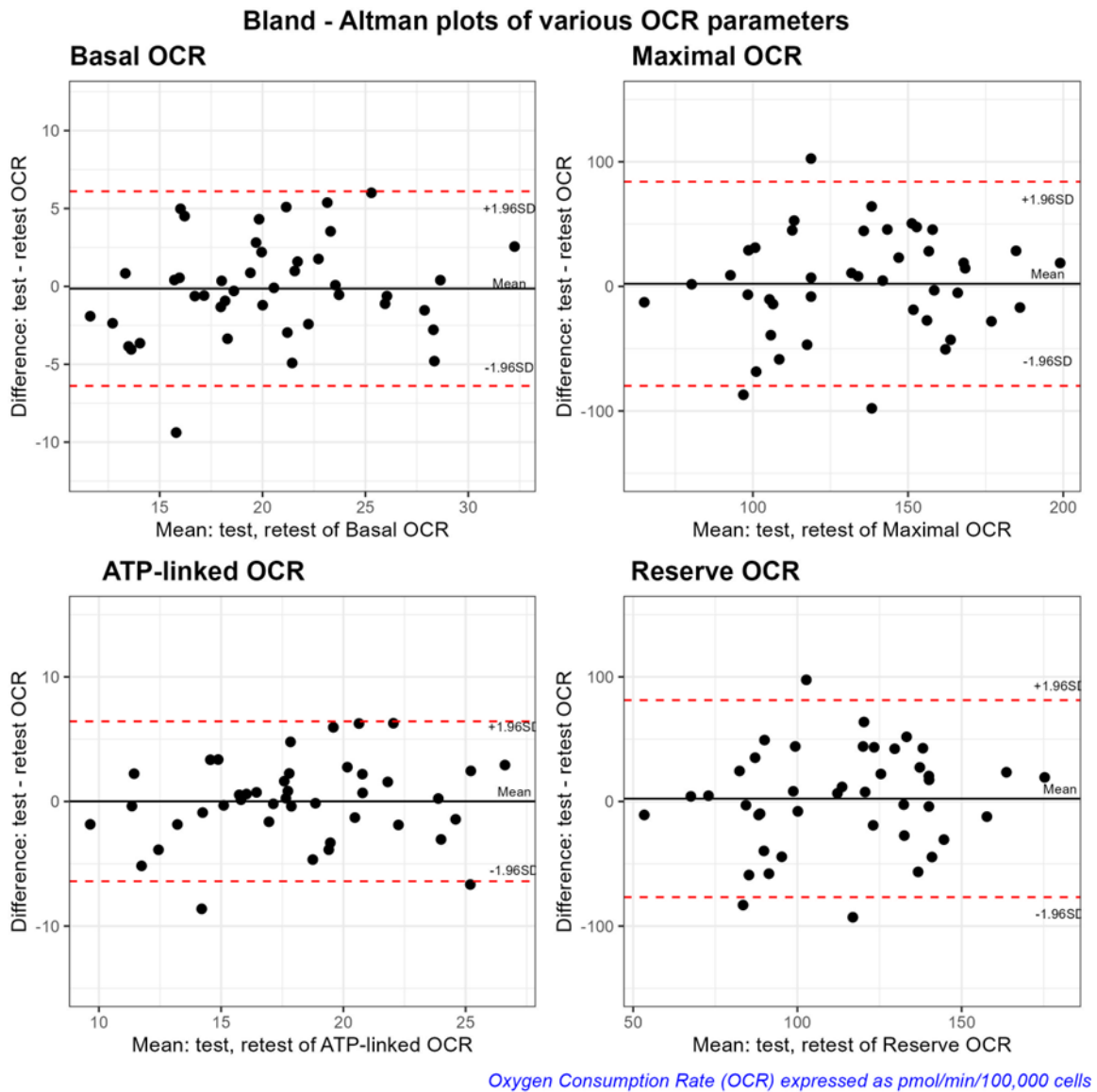
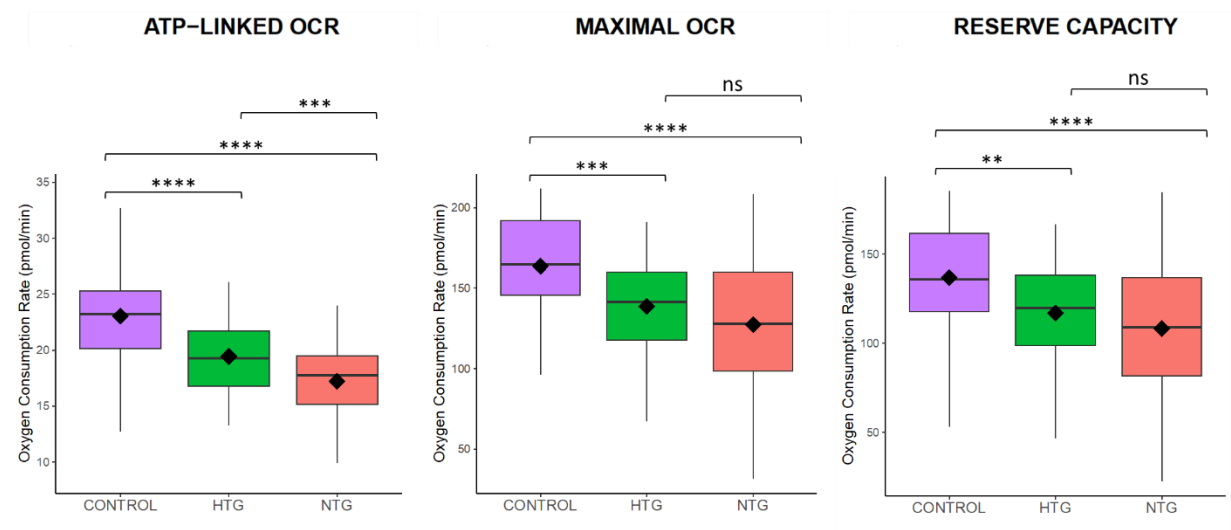


Supplementary Figure 1



Sup. Fig. 1. Bland-Altman plots showing agreement between test - retest of the various mitochondrial oxygen consumption parameters measured by the Seahorse XFe24 Analyzer.

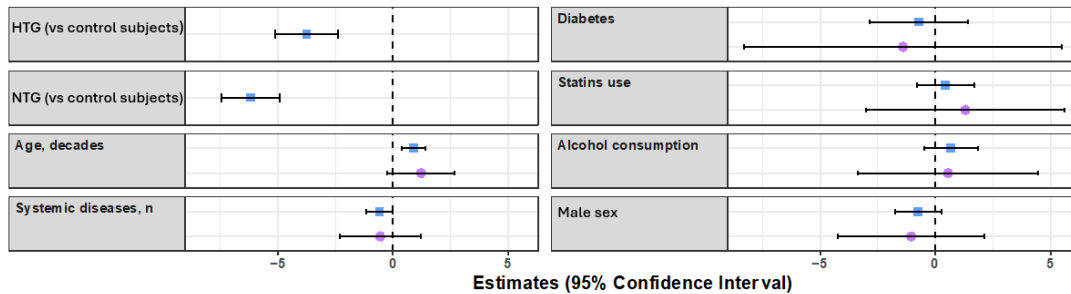
Supplementary Figure 2



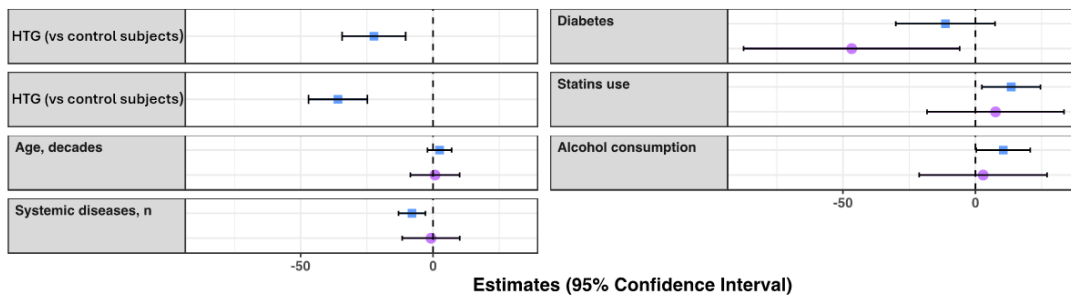
Sup. Fig. 2. Boxplots and results of the Tukey HSD post-hoc test various oxygen consumption rate parameters in PBMC as a function of diagnostic category ((significant change with P value < 0.05 marked with *, P value < 0.01 marked with **, P value < 0.001 marked with ***, P value < 0.0001 marked with ****)

Supplementary Figure 3

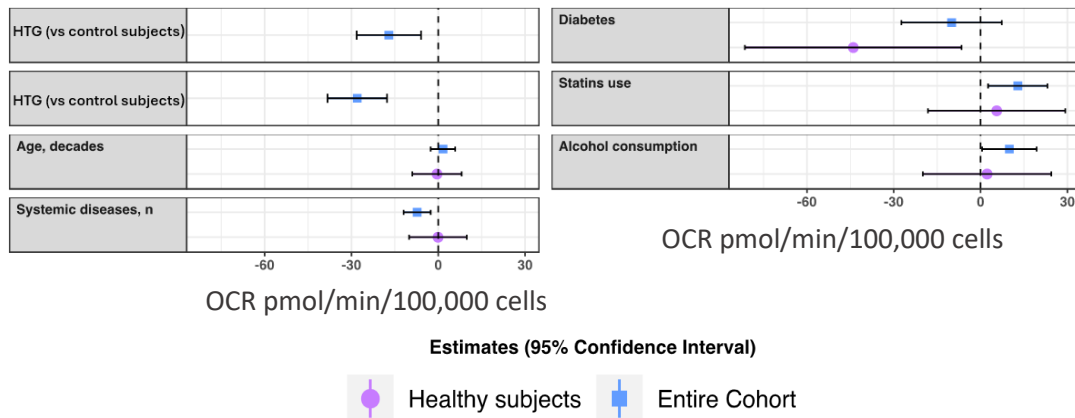
ATP-LINKED OCR Multivariable model



MAXIMAL OCR Multivariable model

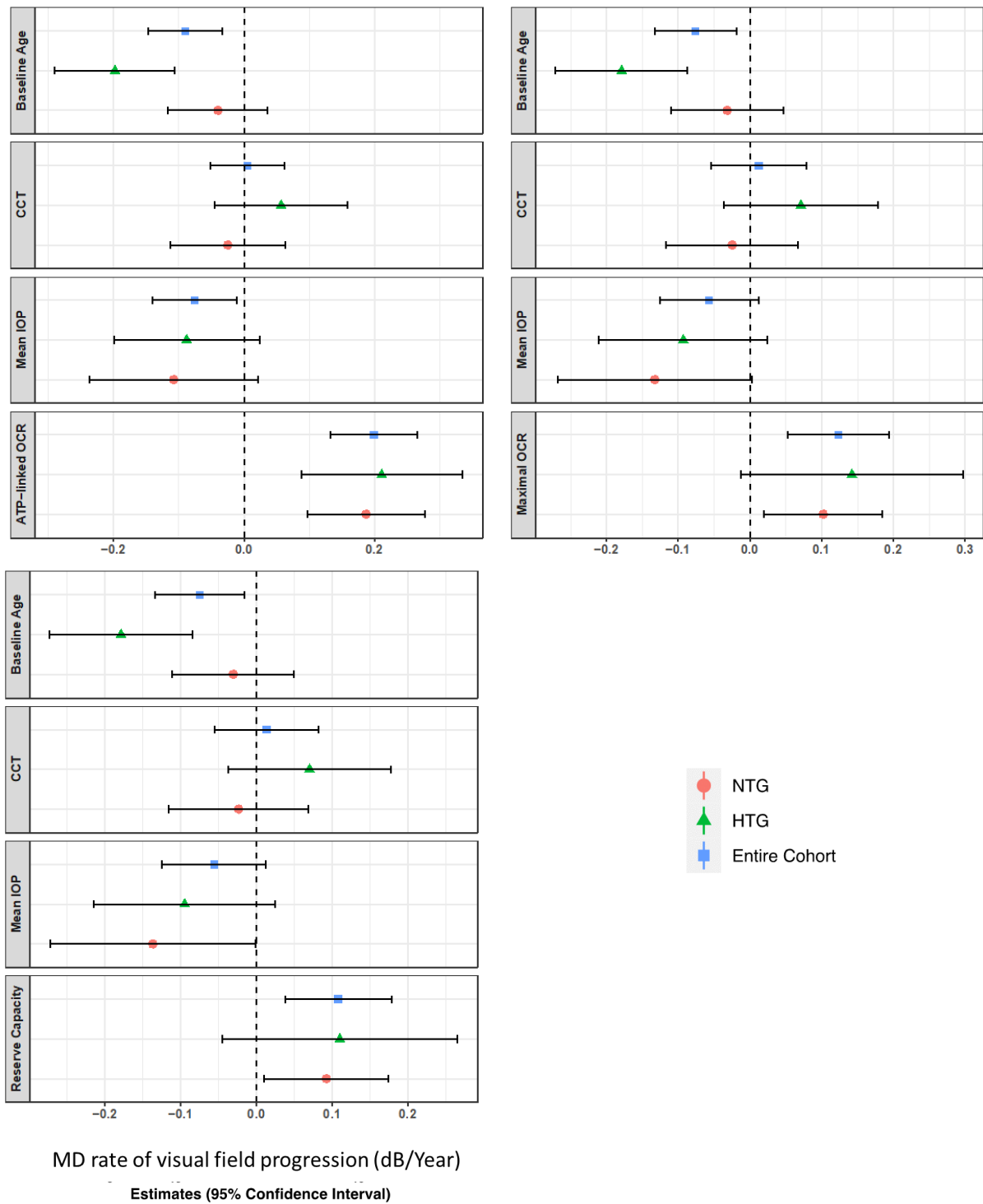


RESERVE CAPACITY Multivariable model

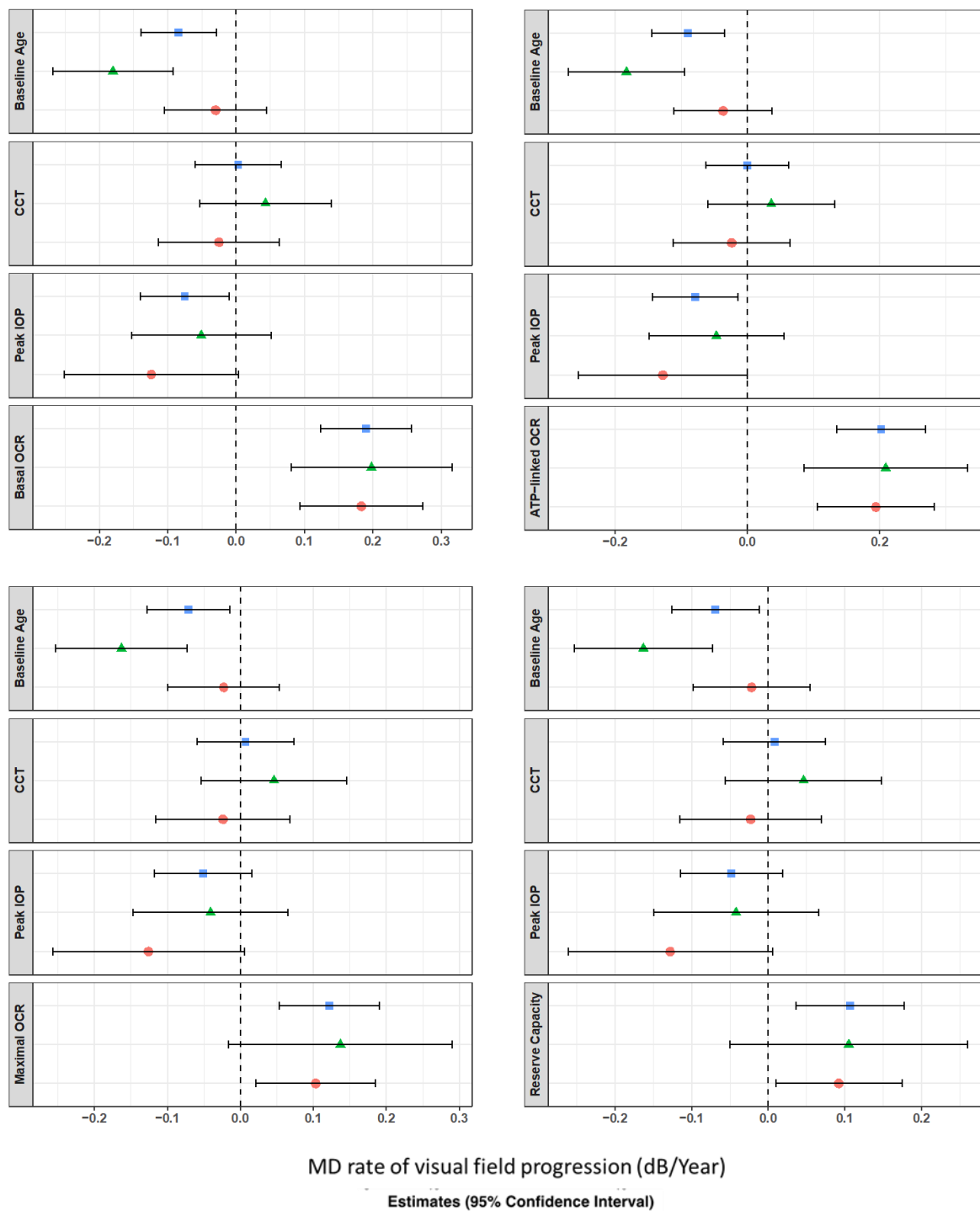


Sup. Fig. 3. Forest Plot showing the results of the multivariable model for factors associated with various OCR parameters. Blue squares and purple circles represent Estimates from the multivariable regression model, whereas horizontal bars represent their corresponding 95% confidence intervals.

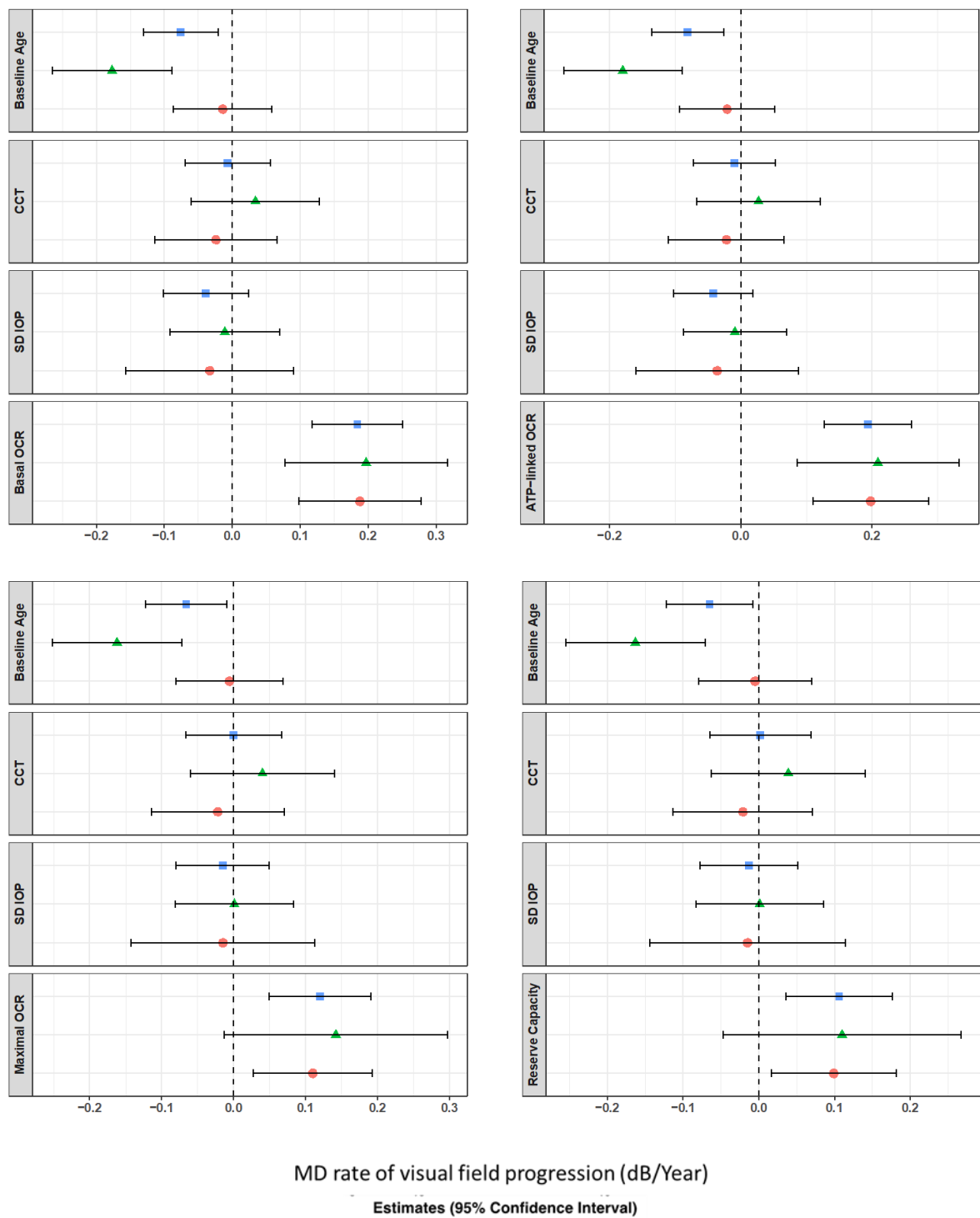
Supplementary Figure 4



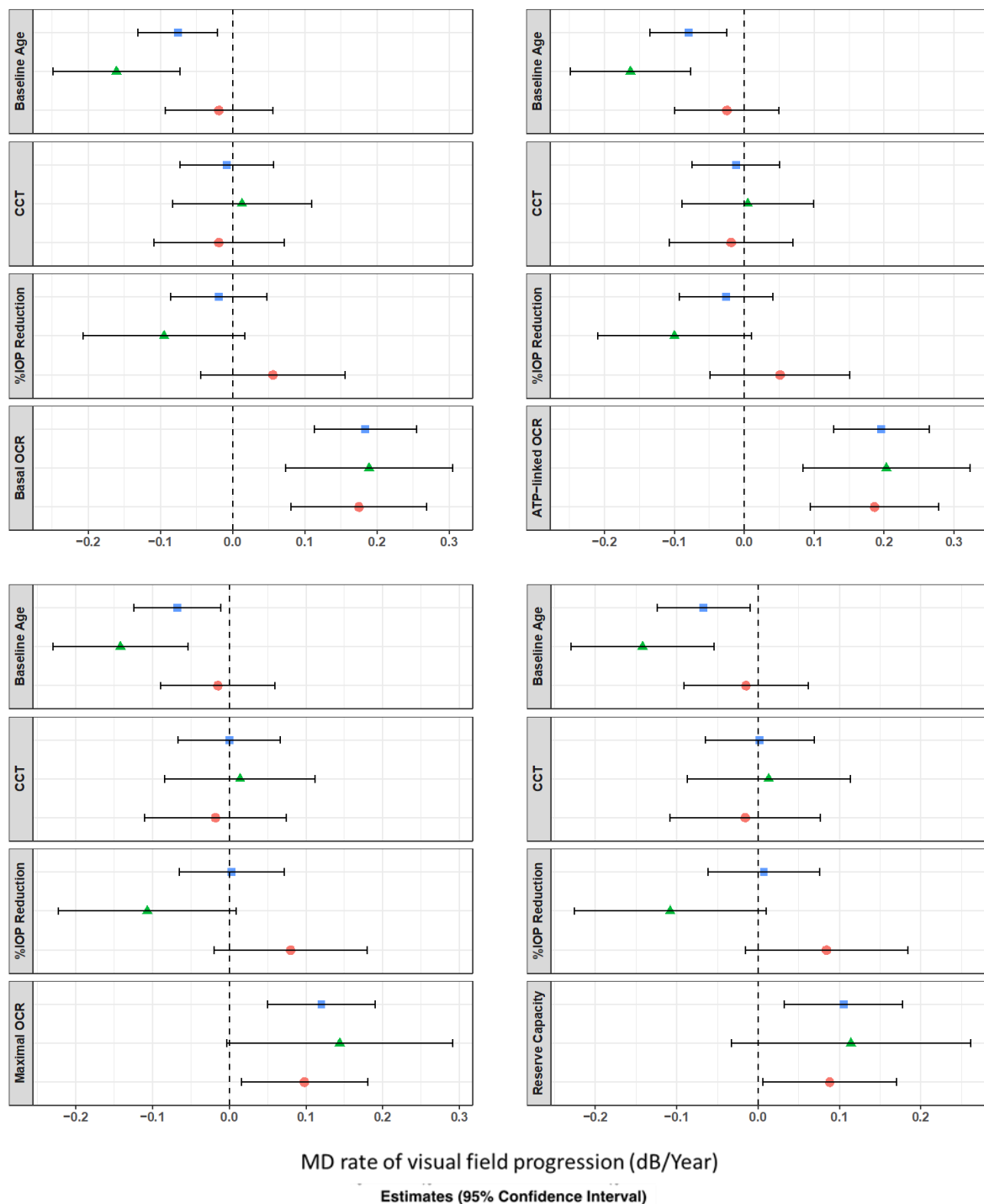
Supplementary Figure 5



Supplementary Figure 6

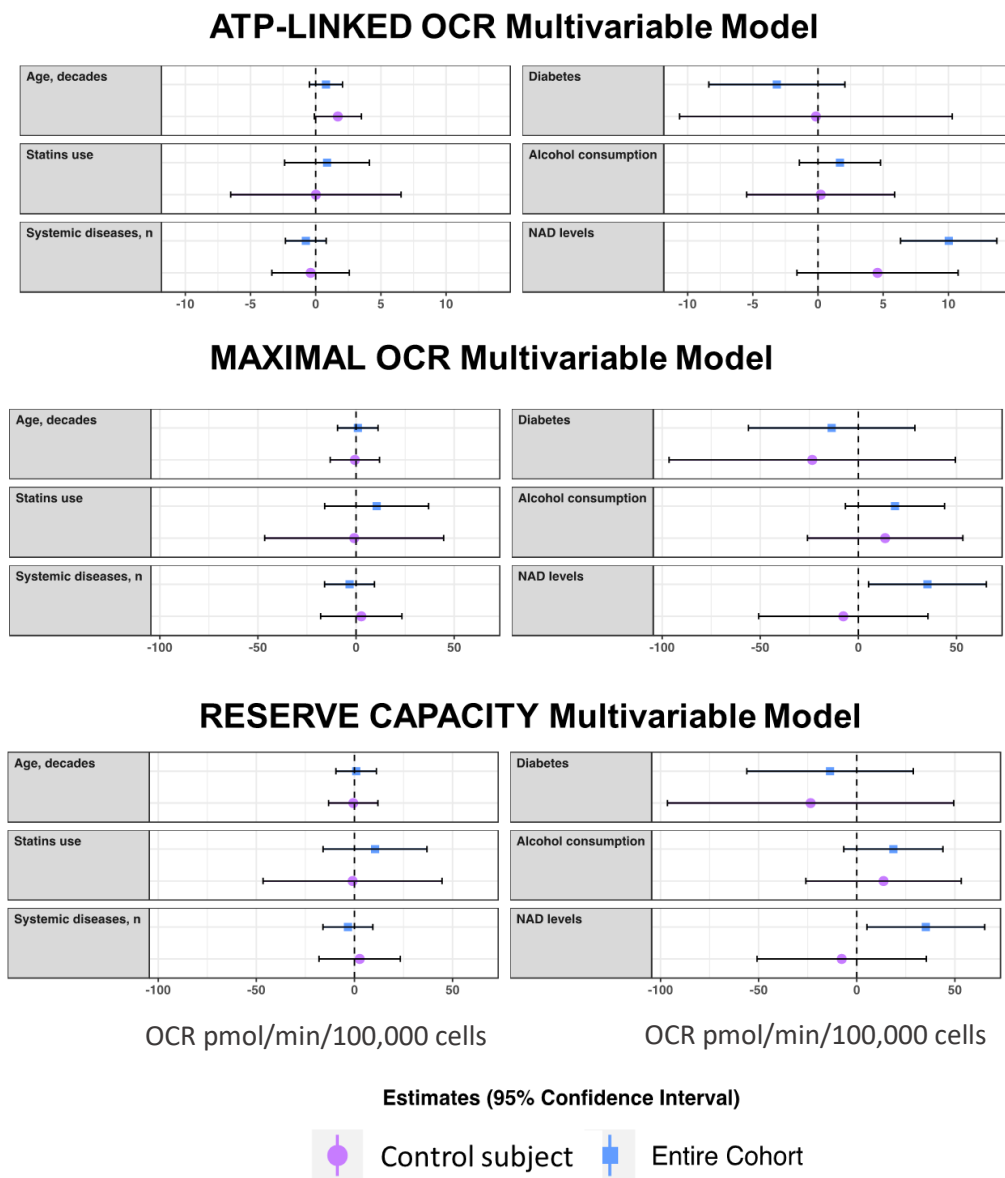


Supplementary Figure 7



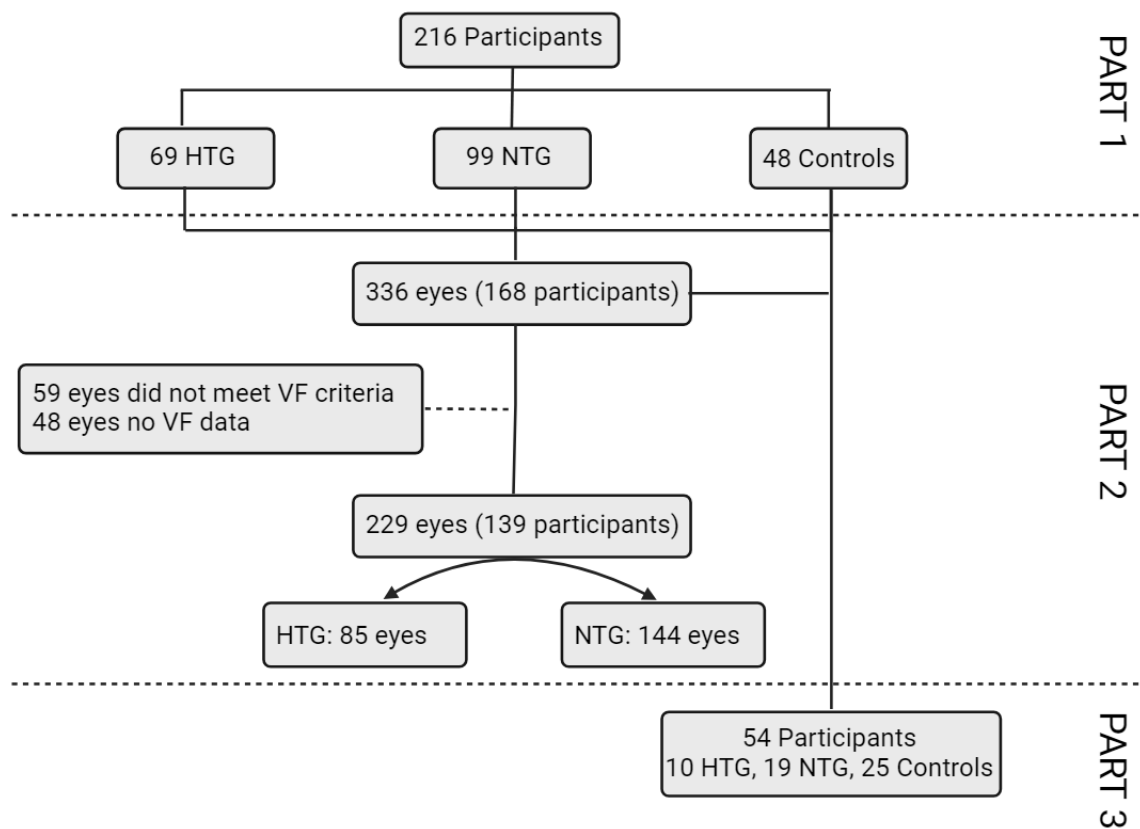
Sup. Fig. 4-7 Forest Plots showing the results of the various OCR mixed effect models for factors associated with the mean deviation (MD) visual field progression, expressed as dB/year. Blue squares, green triangles and red circles represent standardized Estimates, whereas horizontal bars represent their corresponding 95% confidence intervals. All independent variable were standardized (i.e. zero mean and unit standard deviation). Each figure includes a different IOP metric.

Supplementary Figure 8



Sup. Fig. 8. Forest Plots showing the results of the multivariable model for factors associated with total cellular NAD levels and various OCR parameters. Blue squares and purple circles represent Estimates from the multivariable regression model, whereas horizontal bars represent their corresponding 95% confidence intervals.

Supplementary Figure 9



Sup. Fig. 9. Flow chart showing the number of participants/eyes included in each part of the study. Part 1 – measurement of oxygen consumption rate in PBMC. Part 2 – association of MD rate of visual field progression and oxygen consumption rate. Part 3 – measurement of total cellular NAD levels in PBMC.