

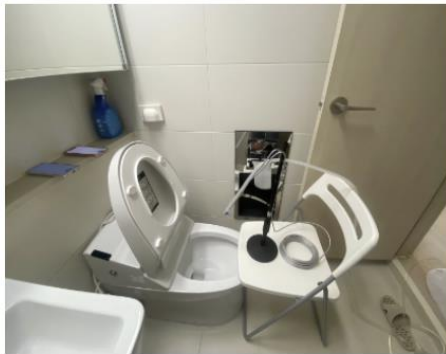
APPENDIX

Supplementary Figure 1. (A) The pump gear drive and the water tank in the storage room. (B) The bent silicone tube and two smartphones to record sound in the bathroom.

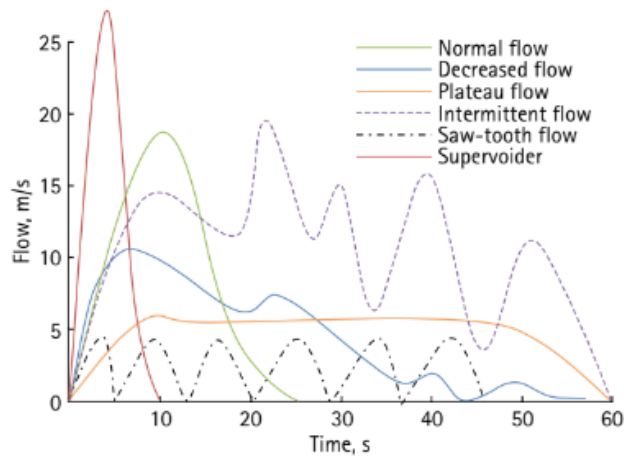
A



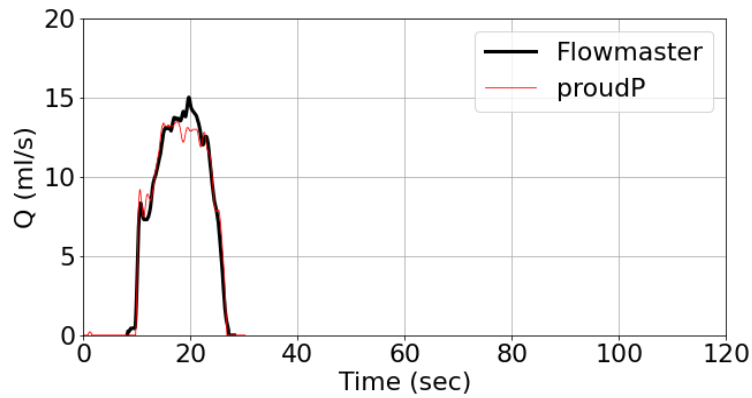
B



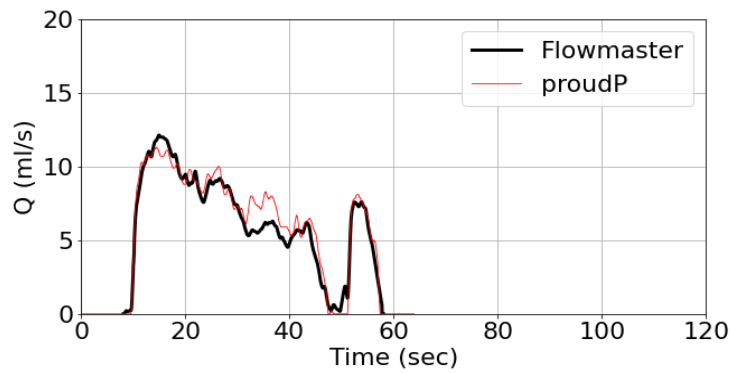
Supplementary Figure 2. Various flow patterns for male subjects.¹



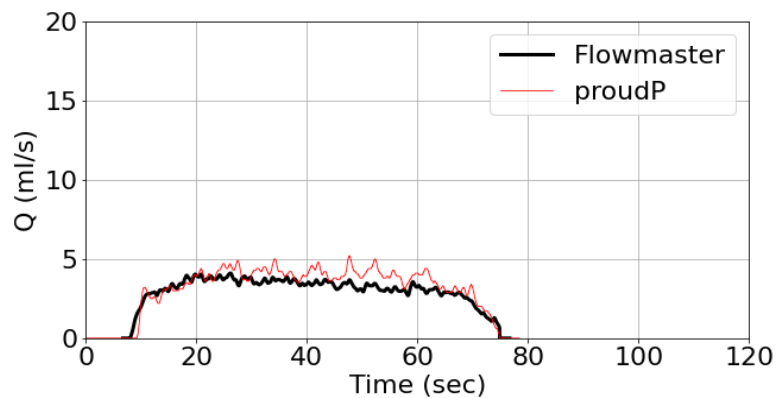
Supplementary Figure 3A. Study results of normal flow 2.



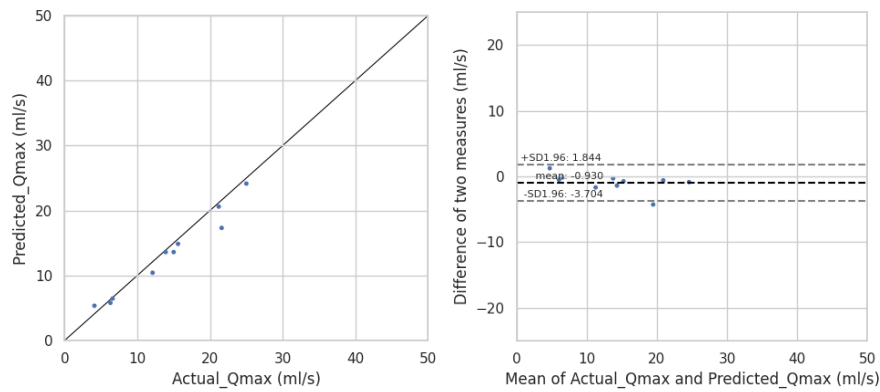
Supplementary Figure 3B. Study results of saw-tooth flow 1.



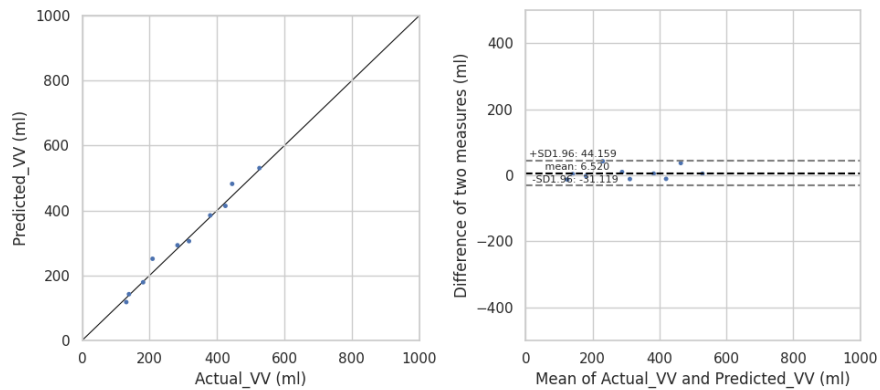
Supplementary Figure 3C. Study results of plateau flow 2.



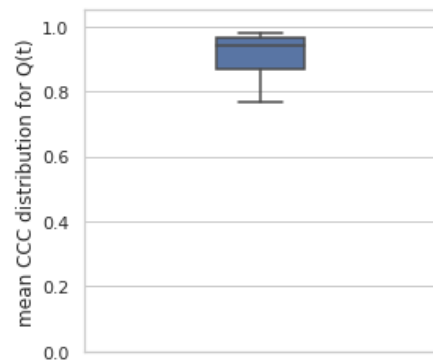
Supplementary Figure 4. Scatter plot & Bland-Altman plot for the mean Qmax of iPhone Xr.



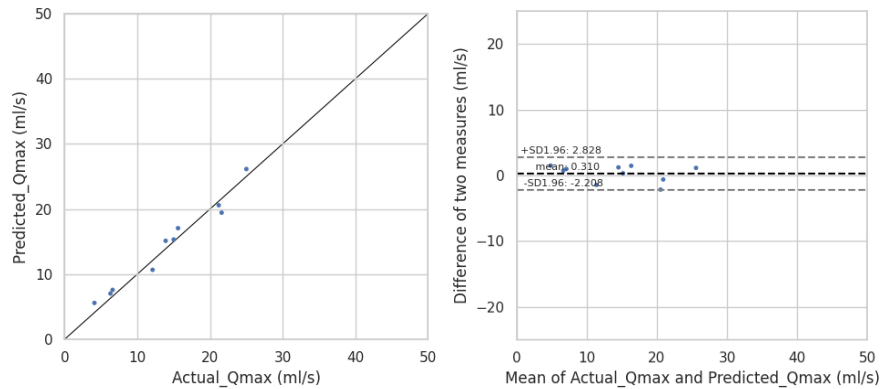
Supplementary Figure 5. Scatter plot & Bland-Altman plot for the mean VV of iPhone XR.



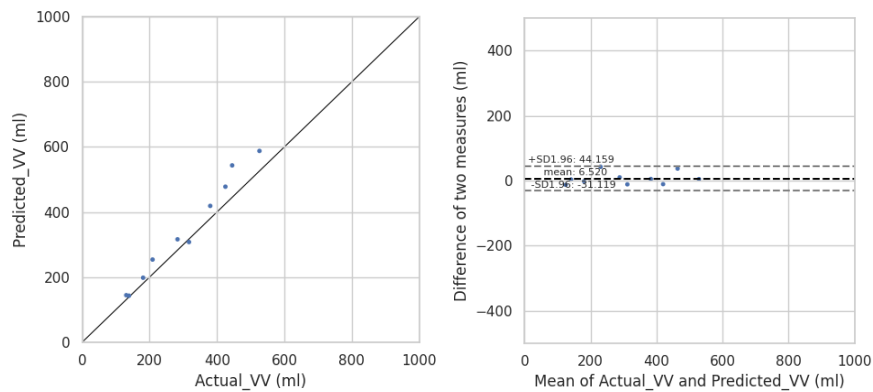
Supplementary Figure 6. Boxplot of mean CCC distribution for Q(t) of iPhoneXR



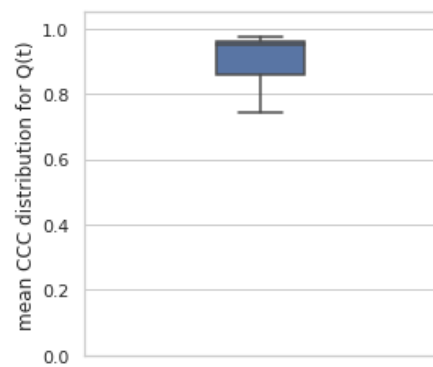
Supplementary Figure 7. Scatter plot & Bland-Altman plot for the mean Qmax of Galaxy S20 G5.



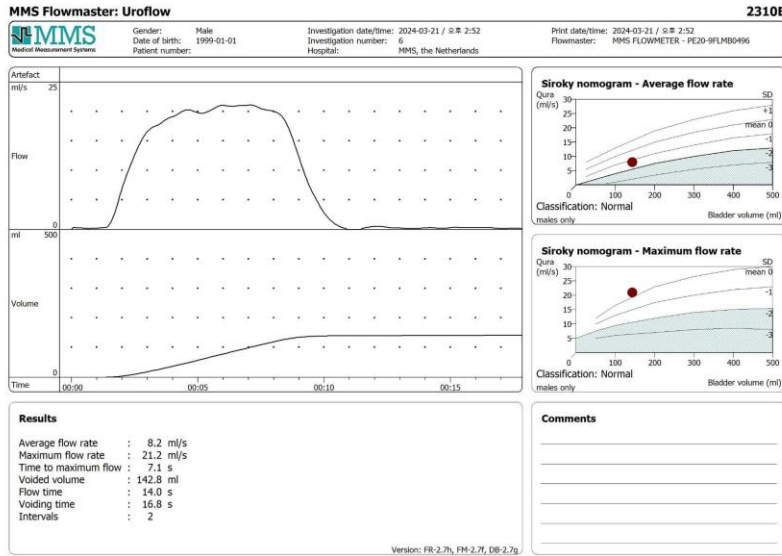
Supplementary Figure 8. Scatter plot & Bland-Altman plot for the mean VV of Galaxy S20 G5.



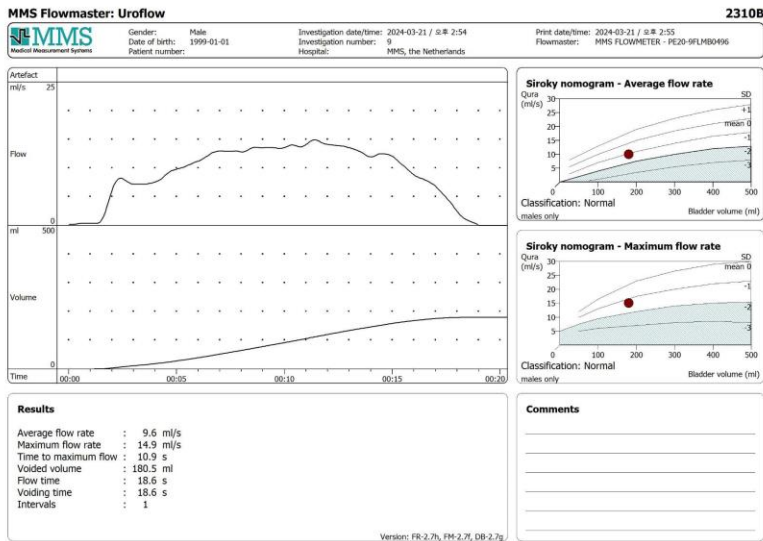
Supplementary Figure 9. Boxplot of mean CCC distribution for Q(t) of Galaxy S20 G5.



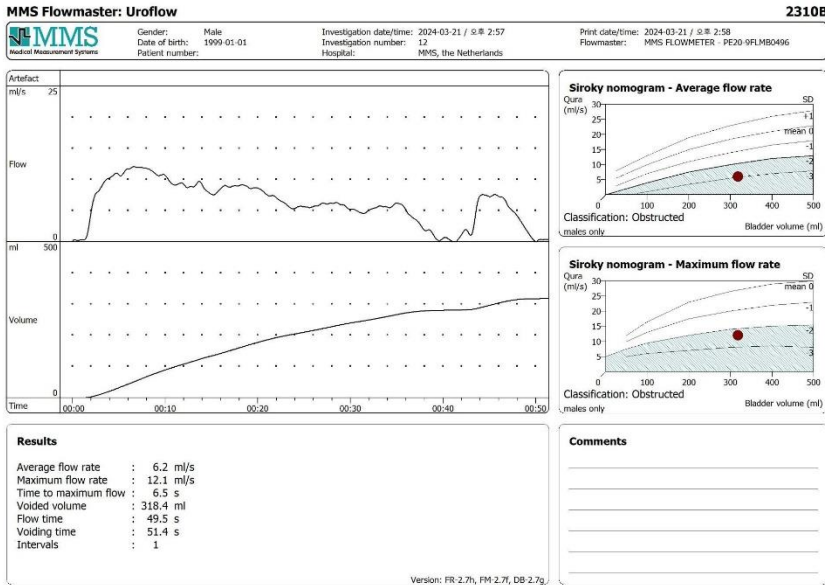
Supplementary Figure 10A. Flowmaster result of normal flow 1.



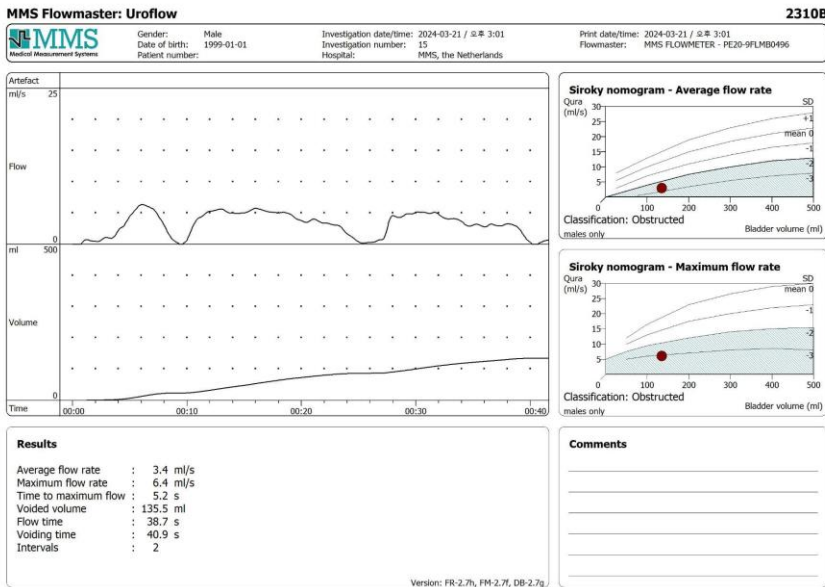
Supplementary Figure 10B. Flowmaster result of normal flow 2.



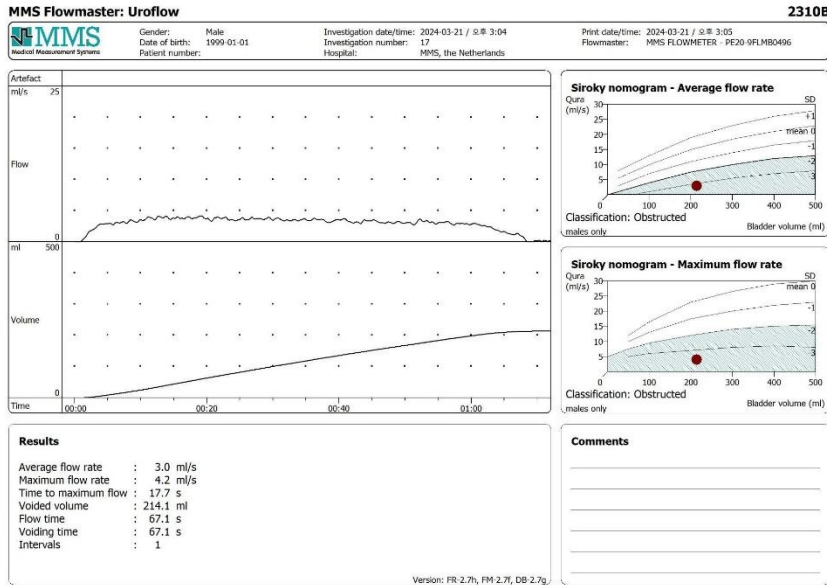
Supplementary Figure 10C. Flowmaster result of saw-tooth flow 1.



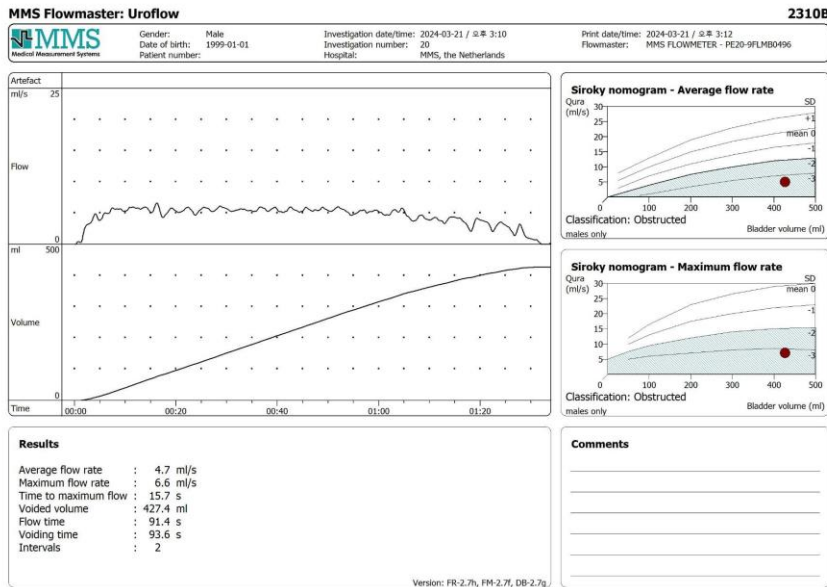
Supplementary Figure 10D. Flowmaster result of saw-tooth flow 2.



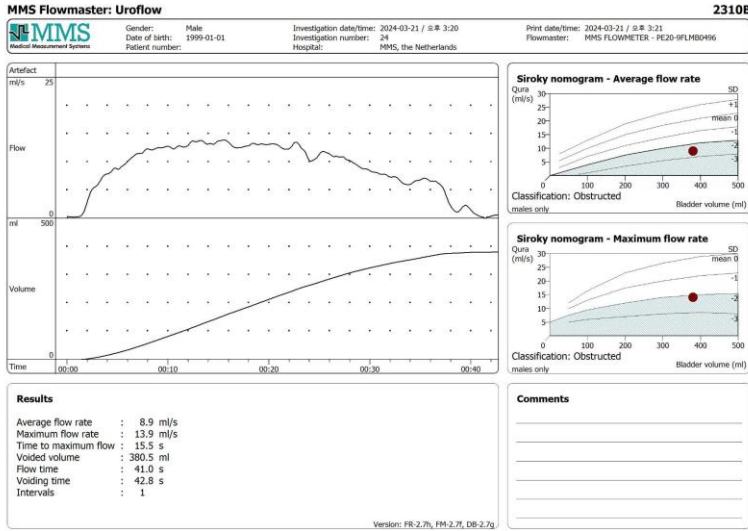
Supplementary Figure 10E. Flowmaster result of plateau flow 1.



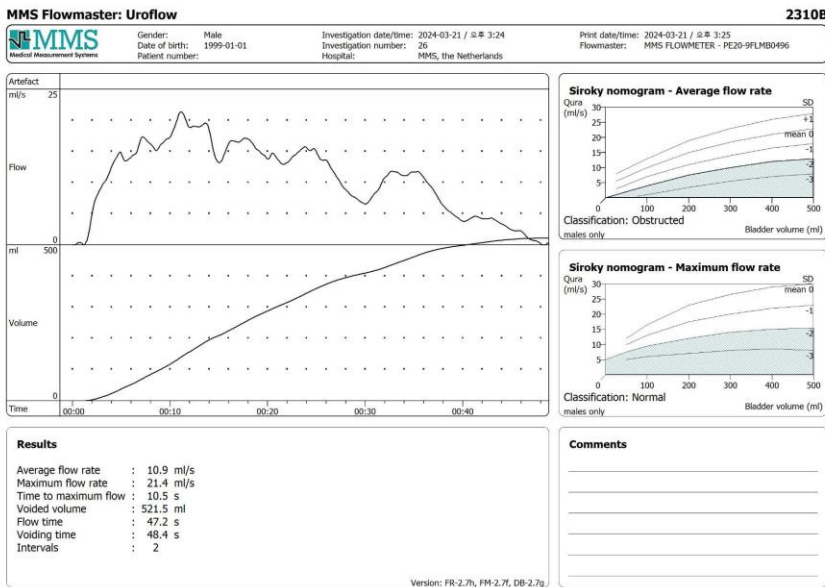
Supplementary Figure 10F. Flowmaster result of plateau flow 2.



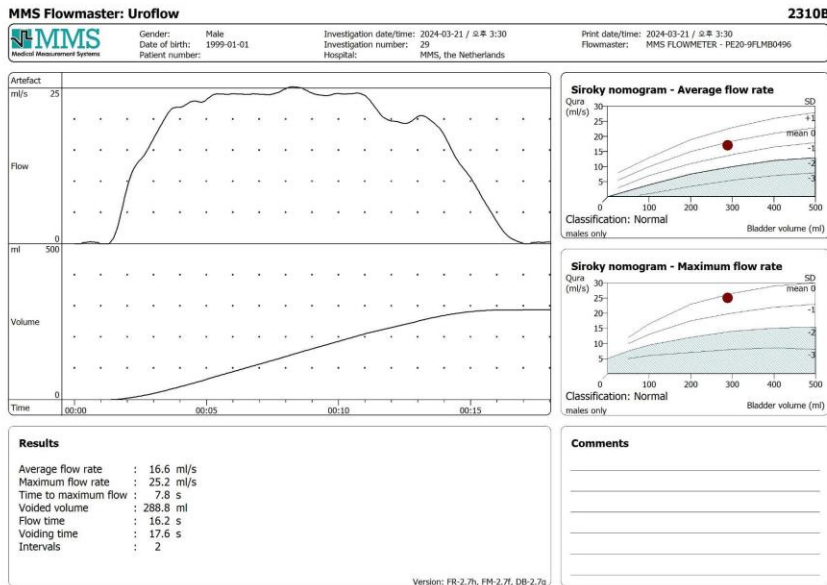
Supplementary Figure 10G. Flowmaster result of normal flow 3.



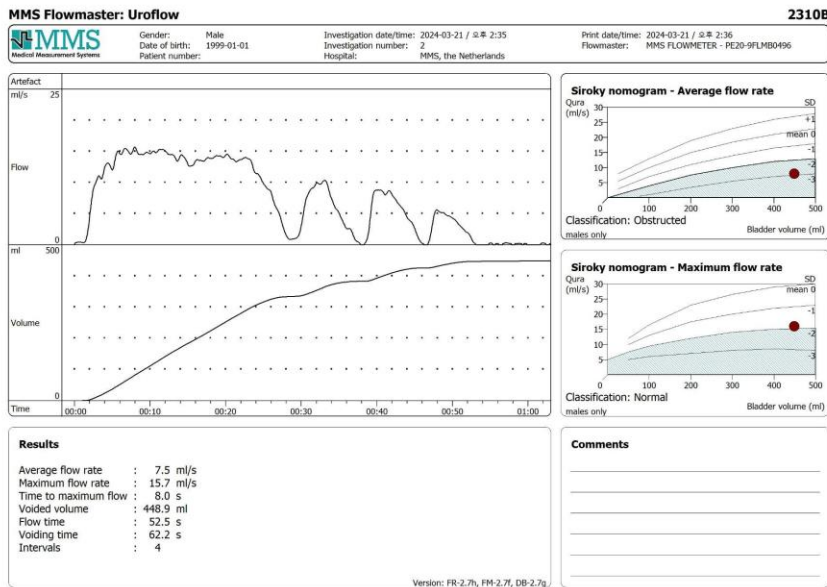
Supplementary Figure 10H. Flowmaster result of intermittent flow 1.



Supplementary Figure 10I. Flowmaster result of normal flow 4.



Supplementary Figure 10J. Flowmaster result of saw-tooth flow 3.



REFERENCE

1. Jarvis TR, Chan L, Tse V. Practical uroflowmetry. *BJU Int* 2012;110:28-9. <https://doi.org/10.1111/bju.11617>