

Supplementary Data Files

Identifying PTSD Sex-based Patterns through Explainable Artificial Intelligence in Biometric Data

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This file contains:

- Supplementary Data Files 1 to 4

Supplementary Data File 1: SHAP values plots applied to the Post-Traumatic Stress Disorder class, assessing the importance of features in every iteration for the Speech-Women Model

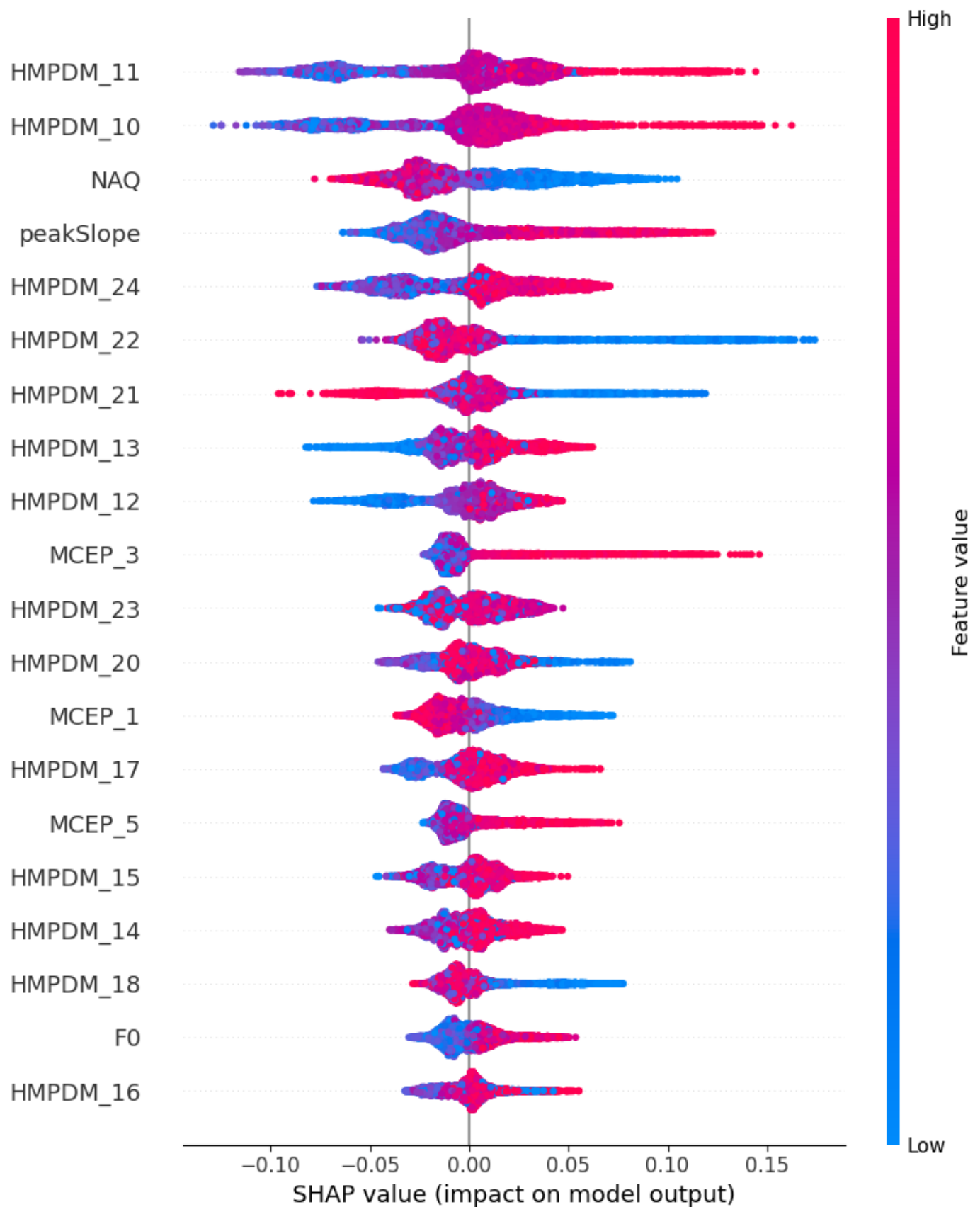


Fig. S1. Twenty most important features for Speech-Women – Iteration 1.

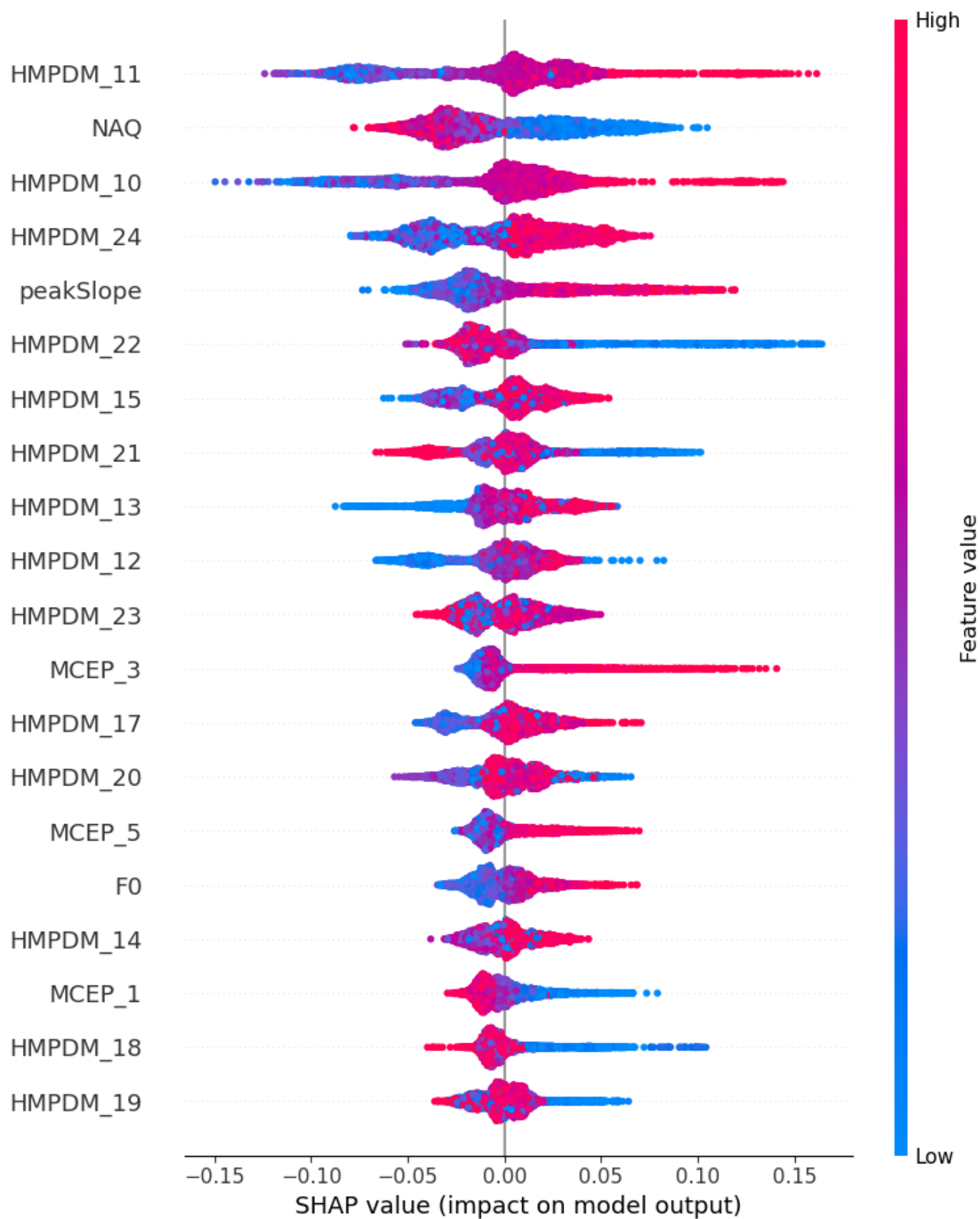


Fig. S2. Twenty most important features for Speech-Women – Iteration 2.

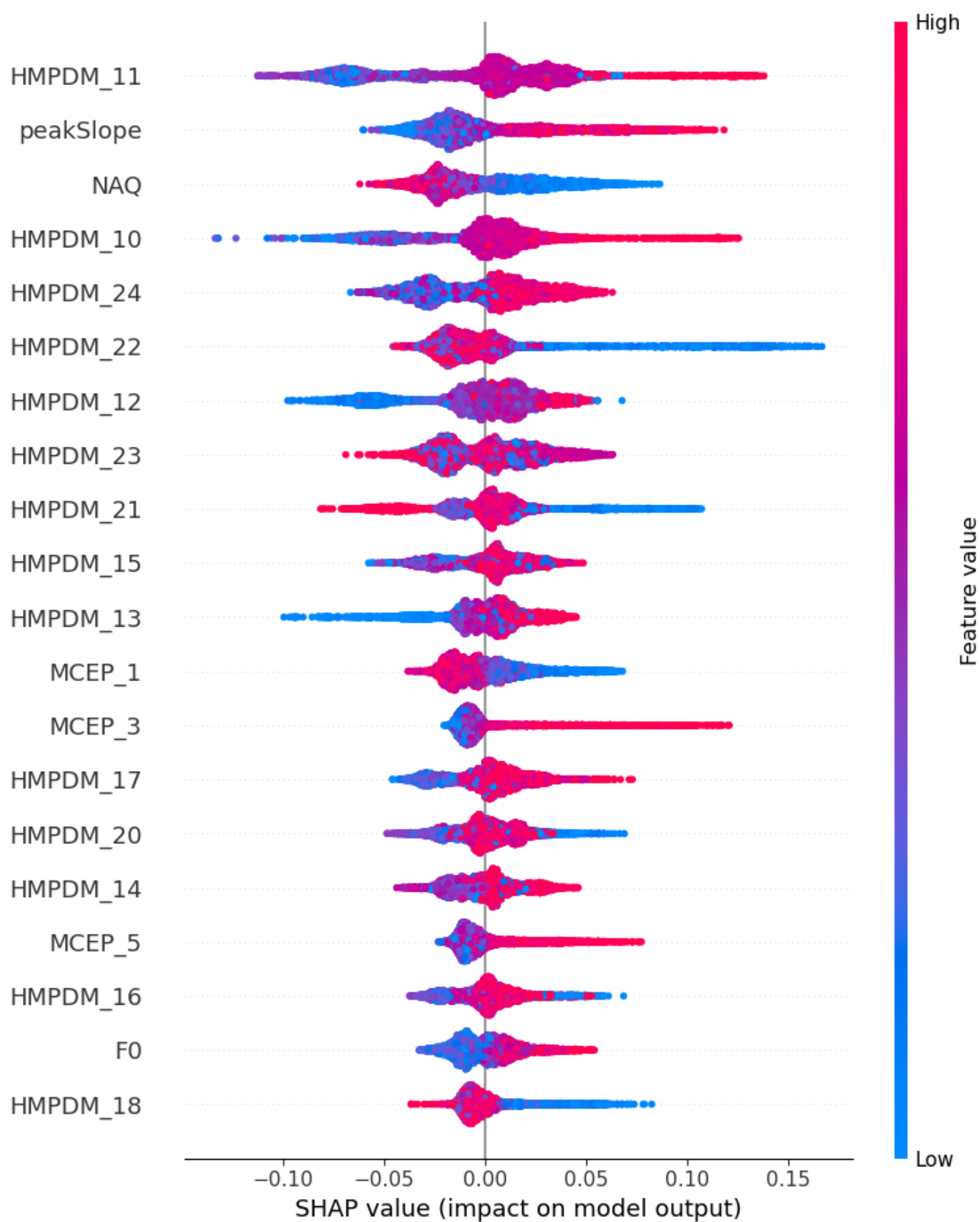


Fig. S3. Twenty most important features for Speech-Women – Iteration 3.

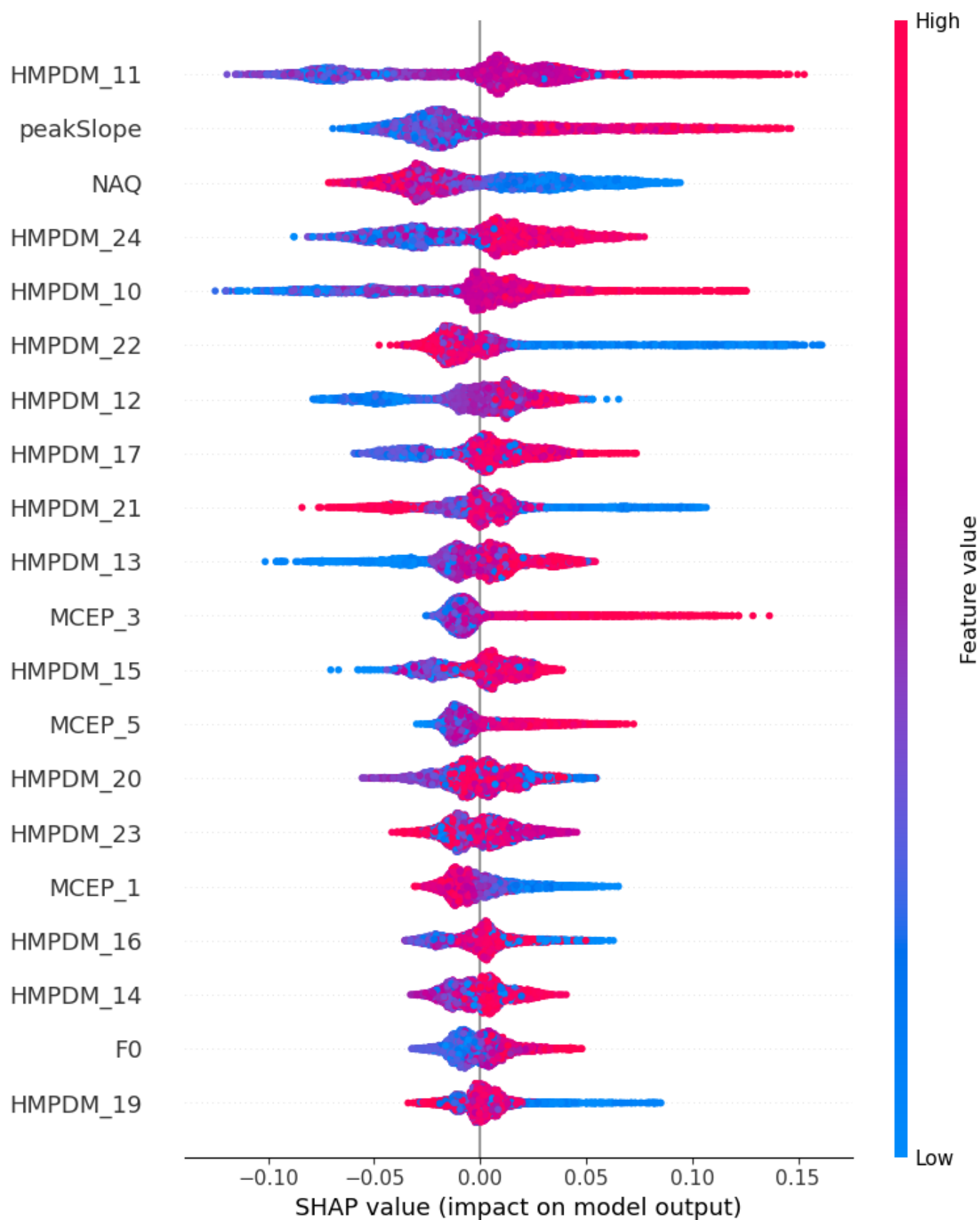


Fig. S4. Twenty most important features for Speech-Women – Iteration 4.

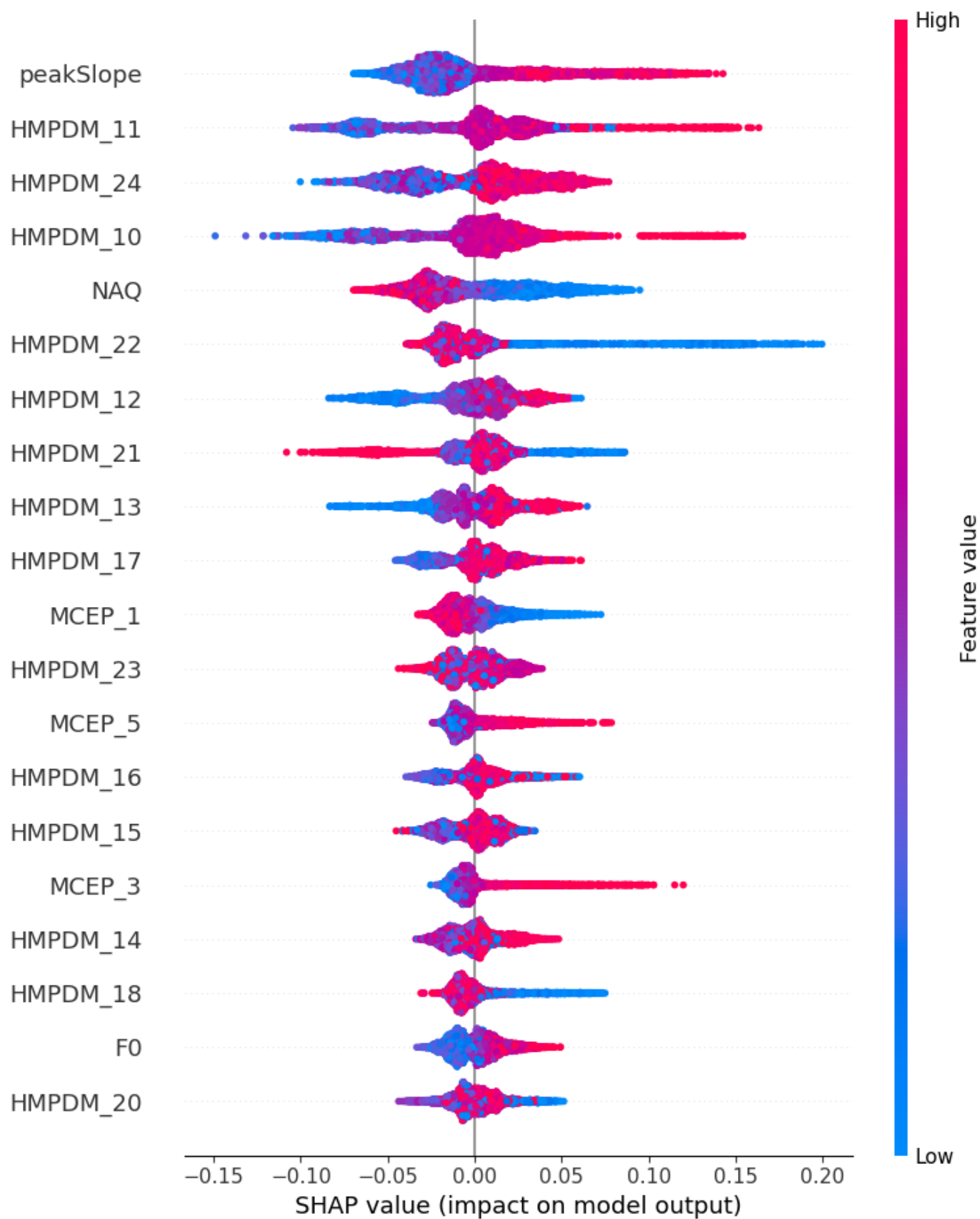


Fig. S5. Twenty most important features for Speech-Women – Iteration 5.

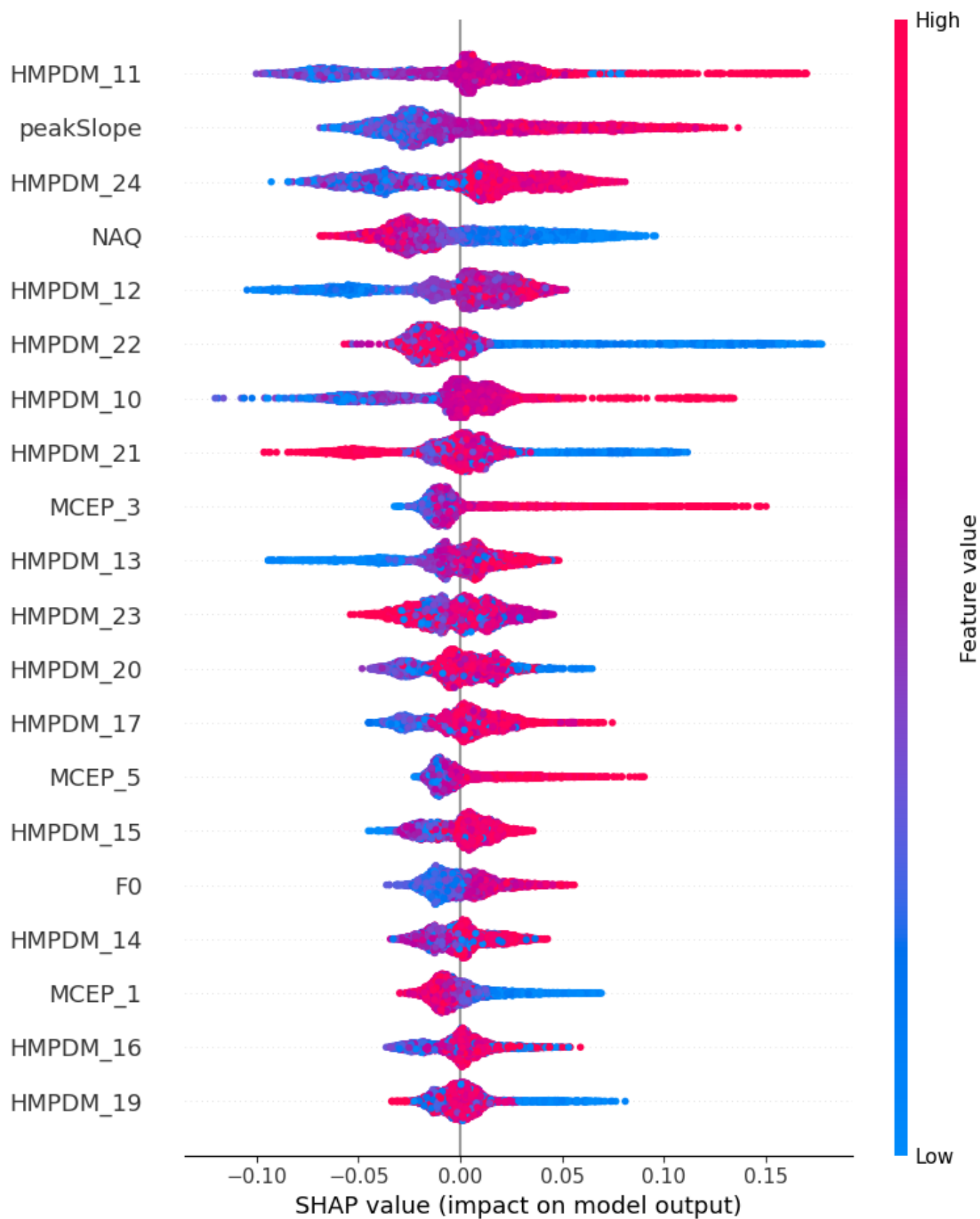


Fig. S6. Twenty most important features for Speech-Women – Iteration 6.

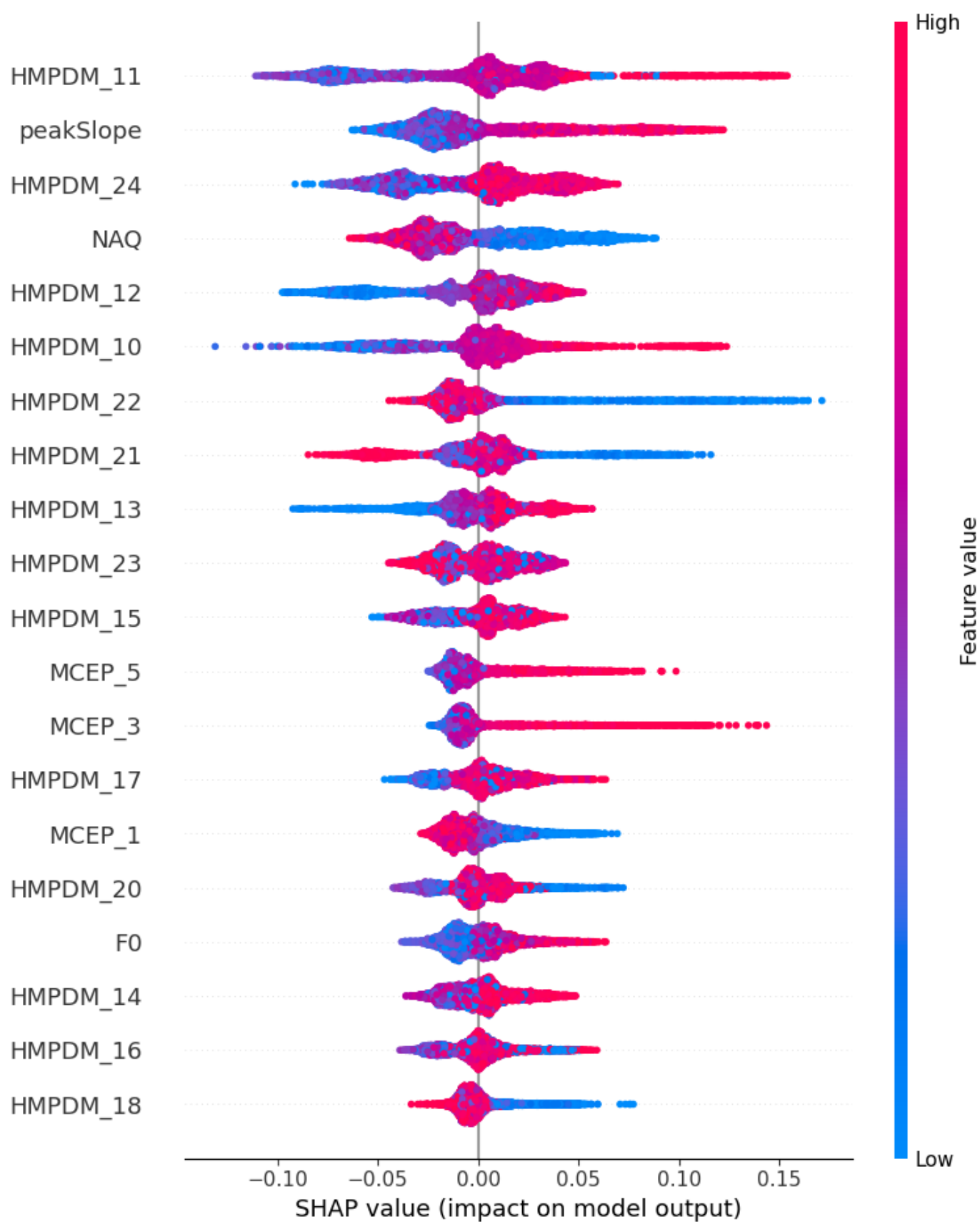


Fig. S7. Twenty most important features for Speech-Women – Iteration 7.

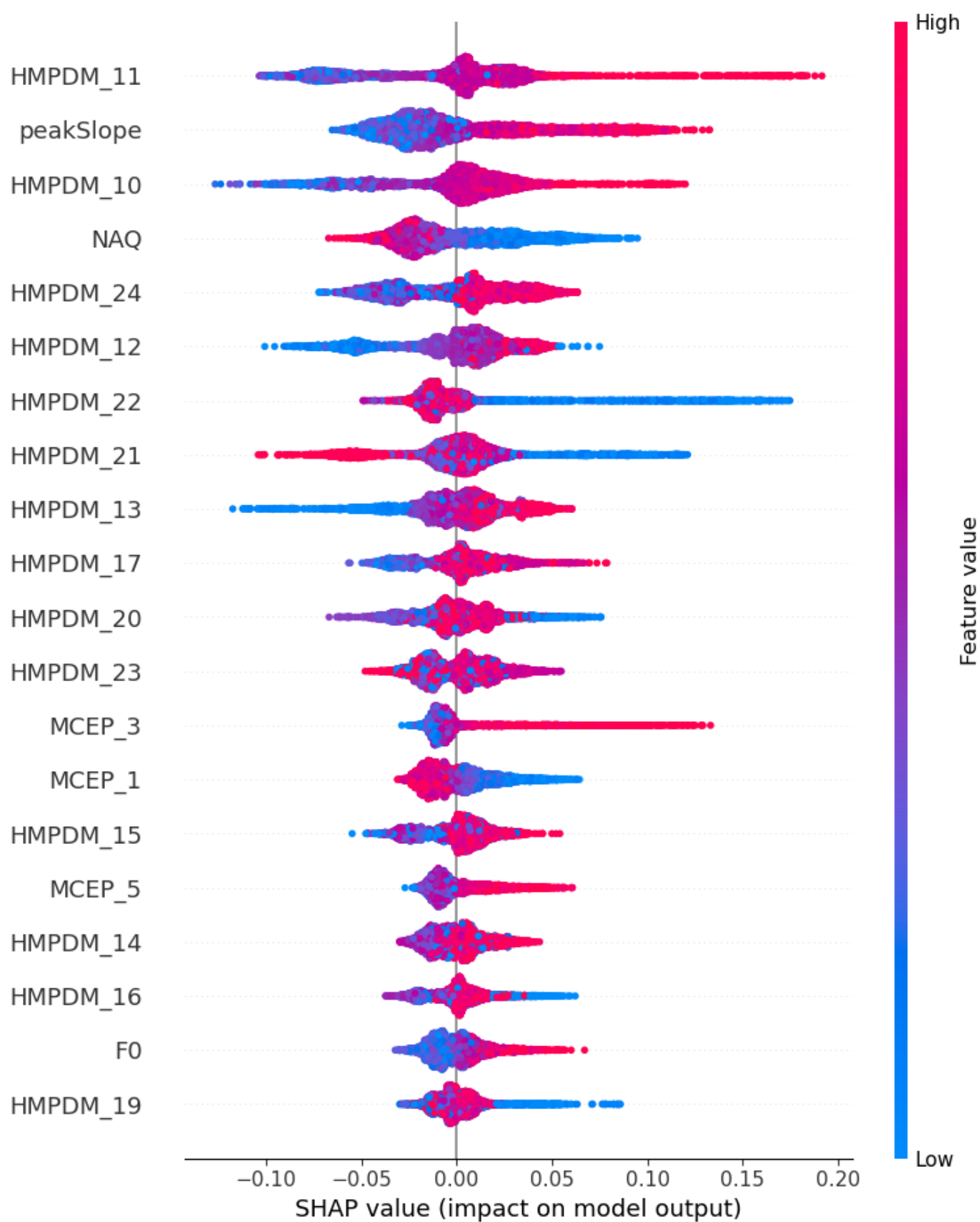


Fig. S8. Twenty most important features for Speech-Women – Iteration 8.

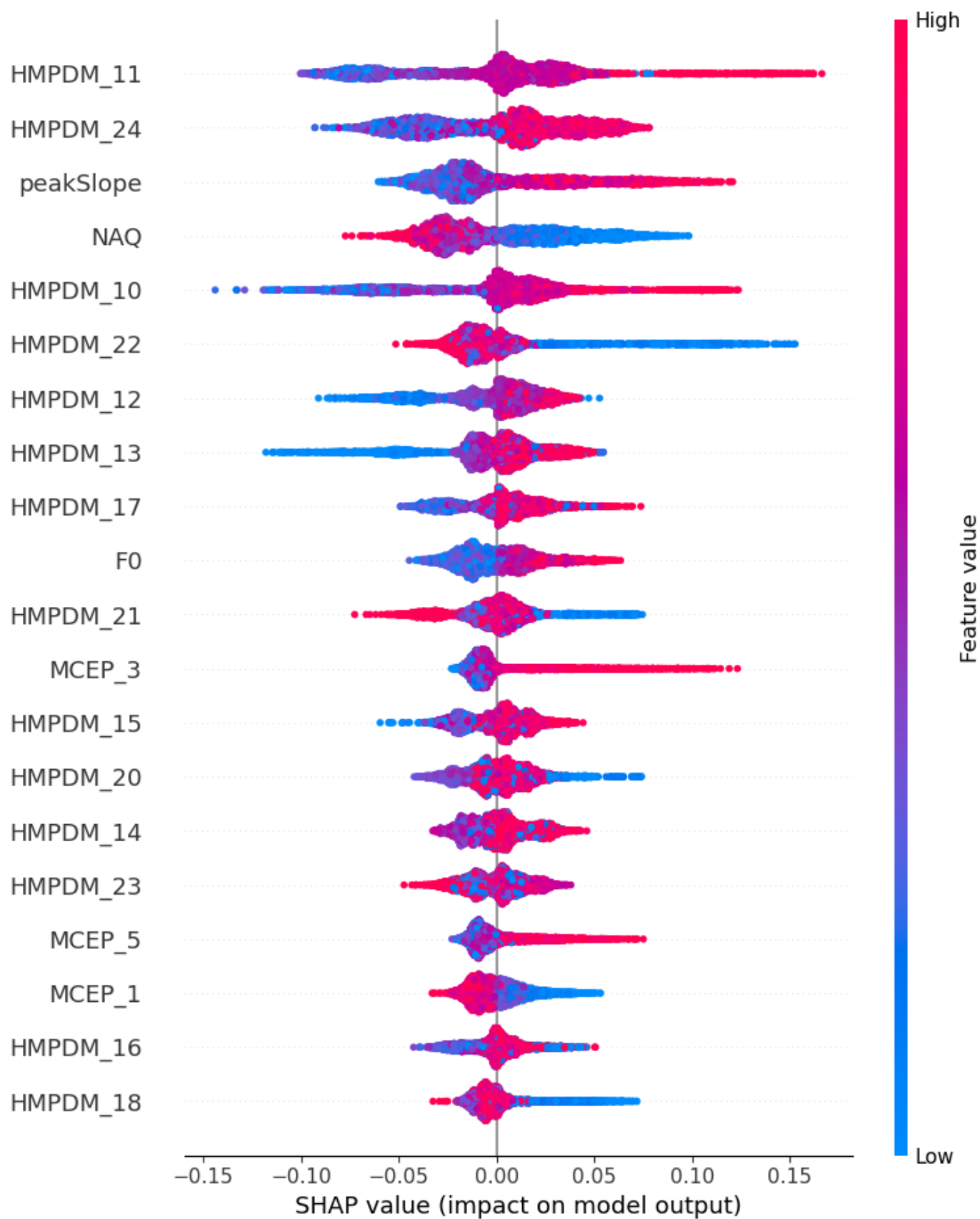


Fig. S9. Twenty most important features for Speech-Women – Iteration 9.

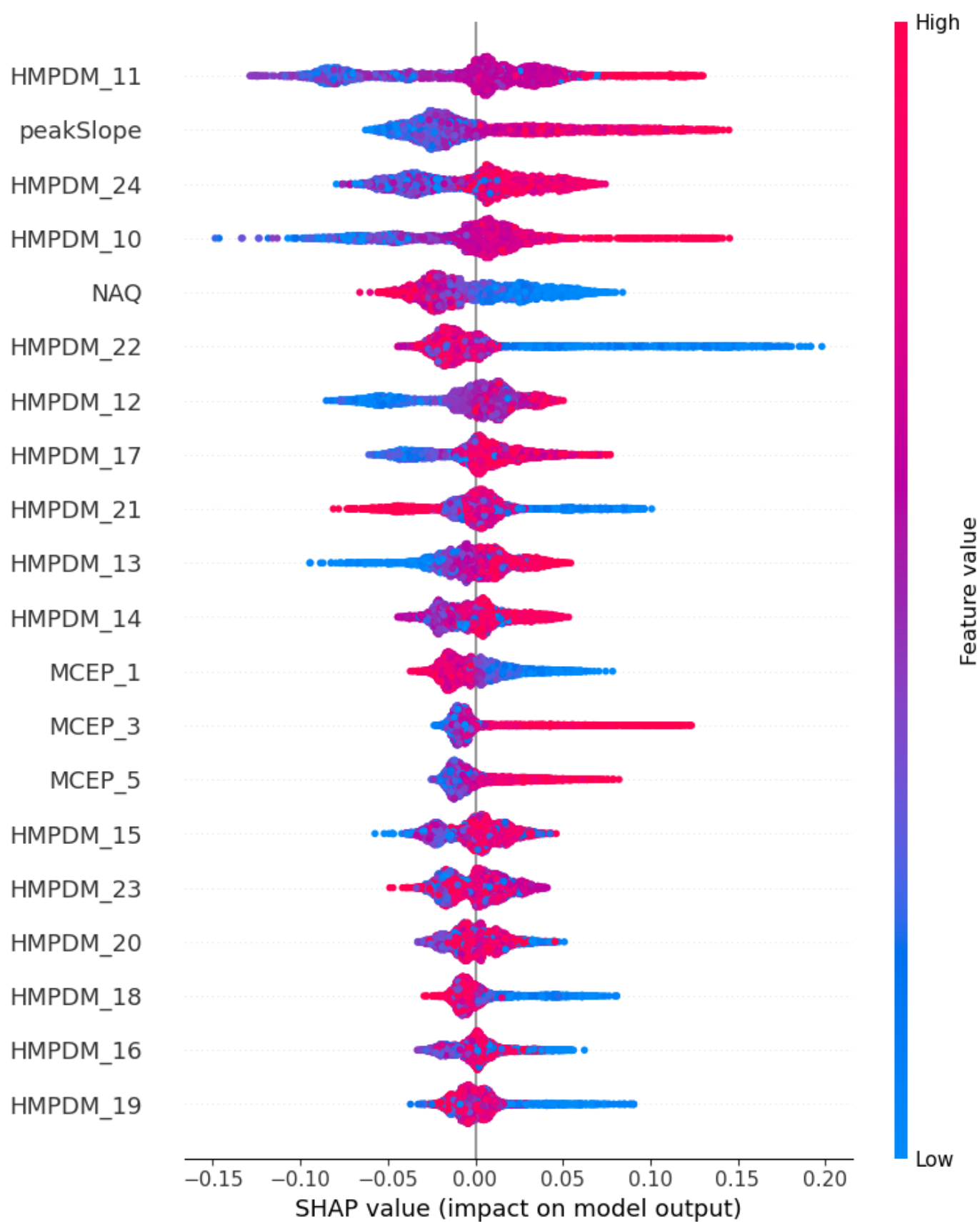


Fig. S10. Twenty most important features for Speech-Women – Iteration 10.

Supplementary Data File 2: SHAP values plots applied to the Post-Traumatic Stress Disorder class, assessing the importance of features in every iteration for the Speech-Men Model

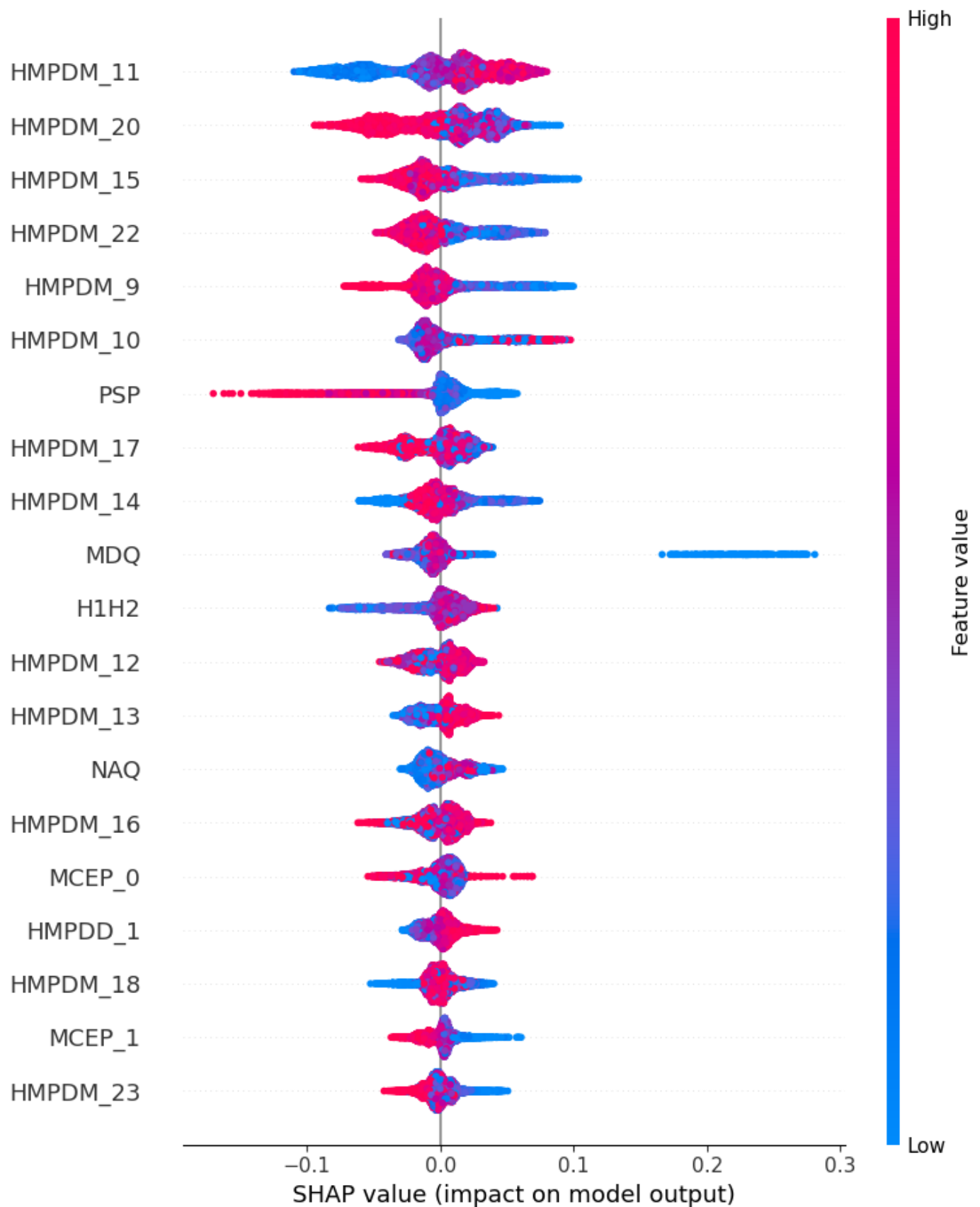


Fig. S11. Twenty most important features for Speech-Men – Iteration 1.

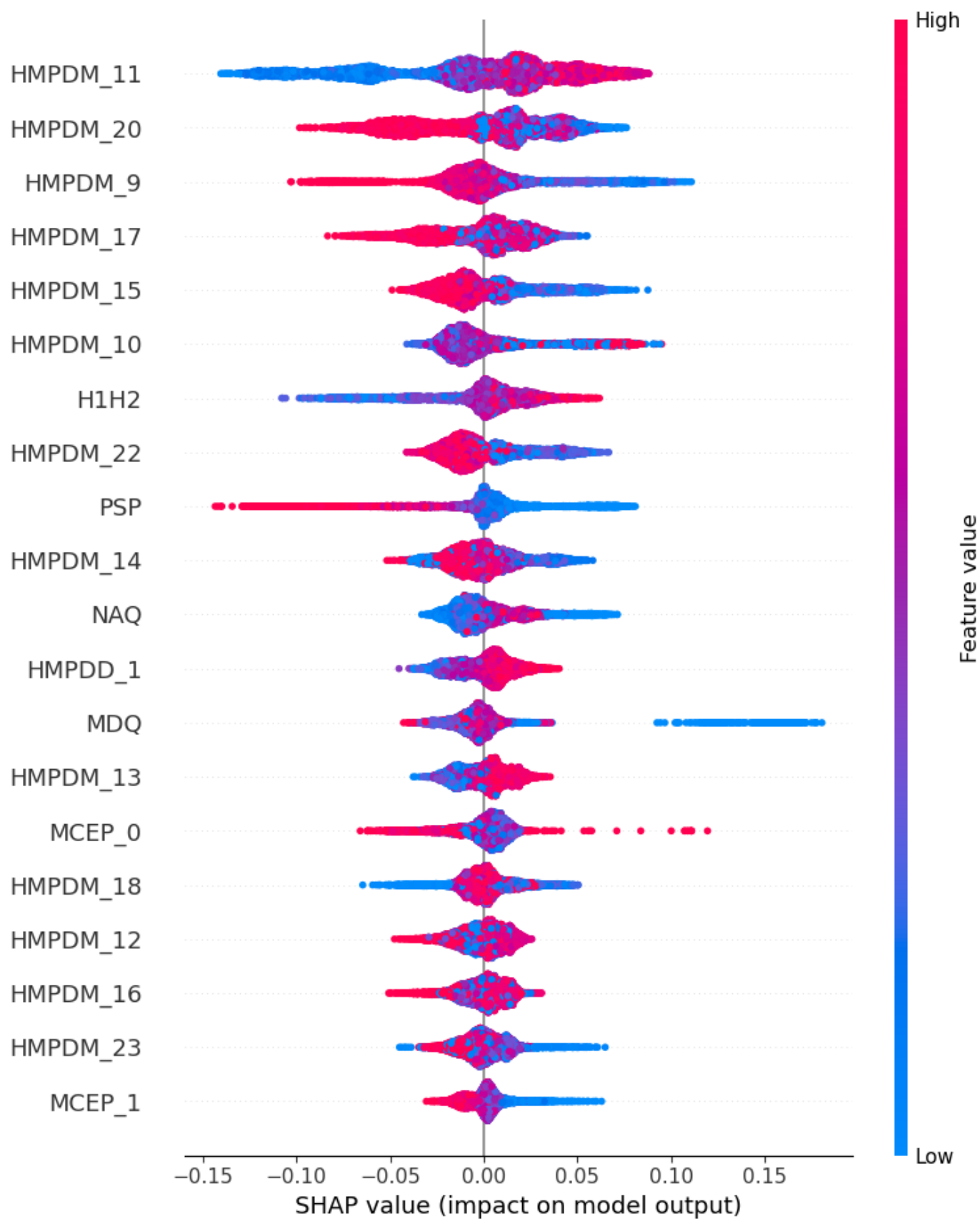


Fig. S12. Twenty most important features for Speech-Men – Iteration 2.

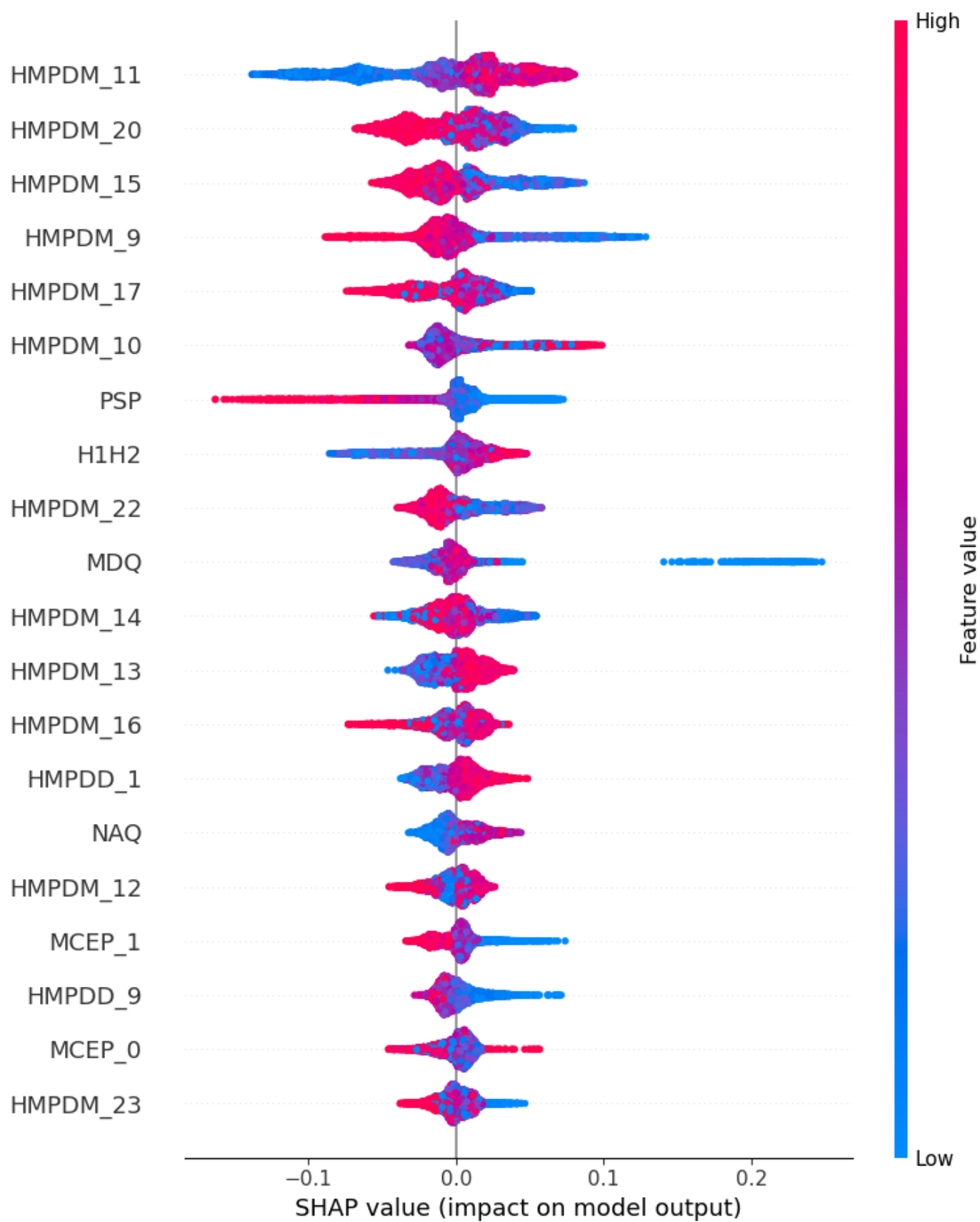


Fig. S13. Twenty most important features for Speech-Men – Iteration 3.

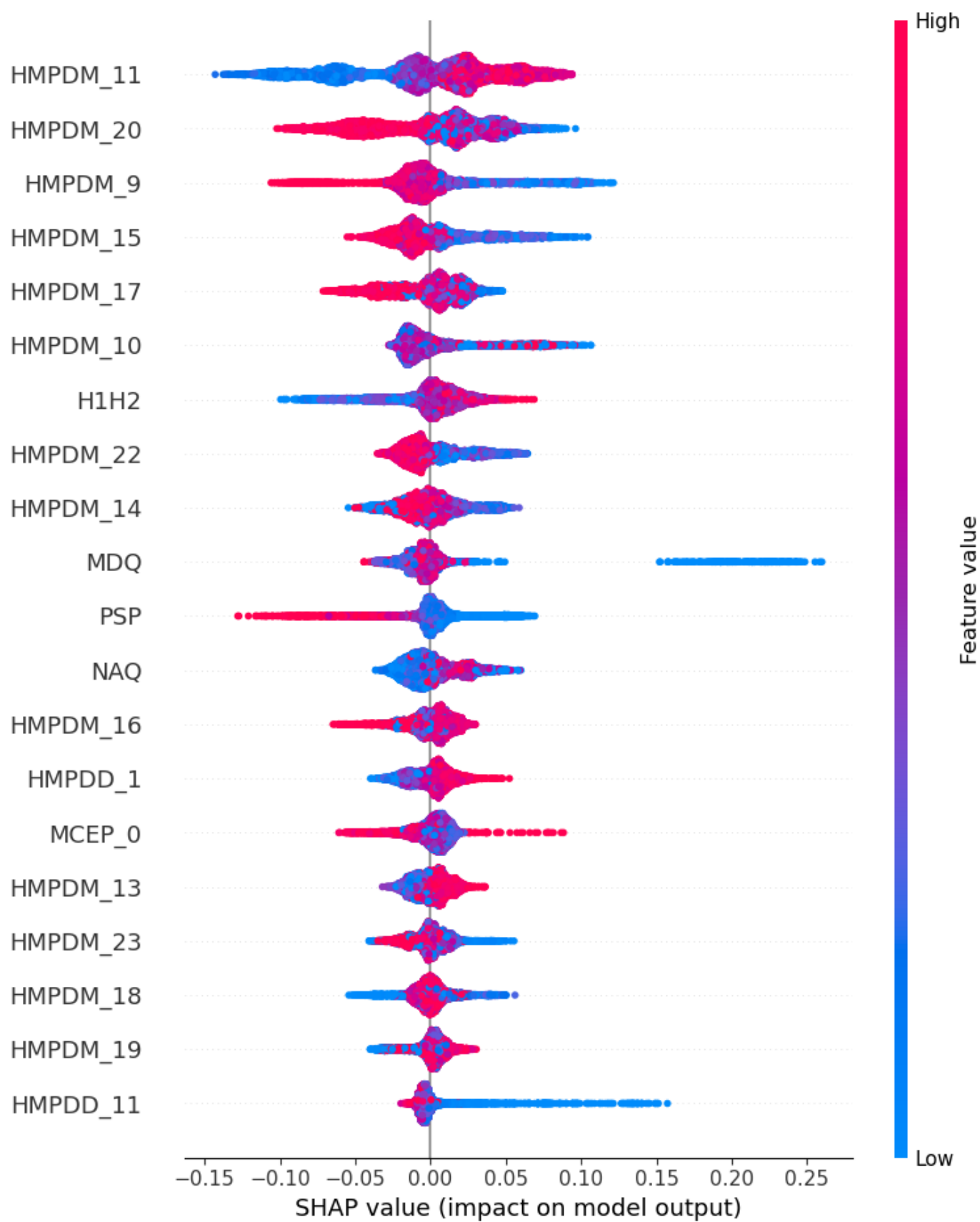


Fig. S14. Twenty most important features for Speech-Men – Iteration 4.

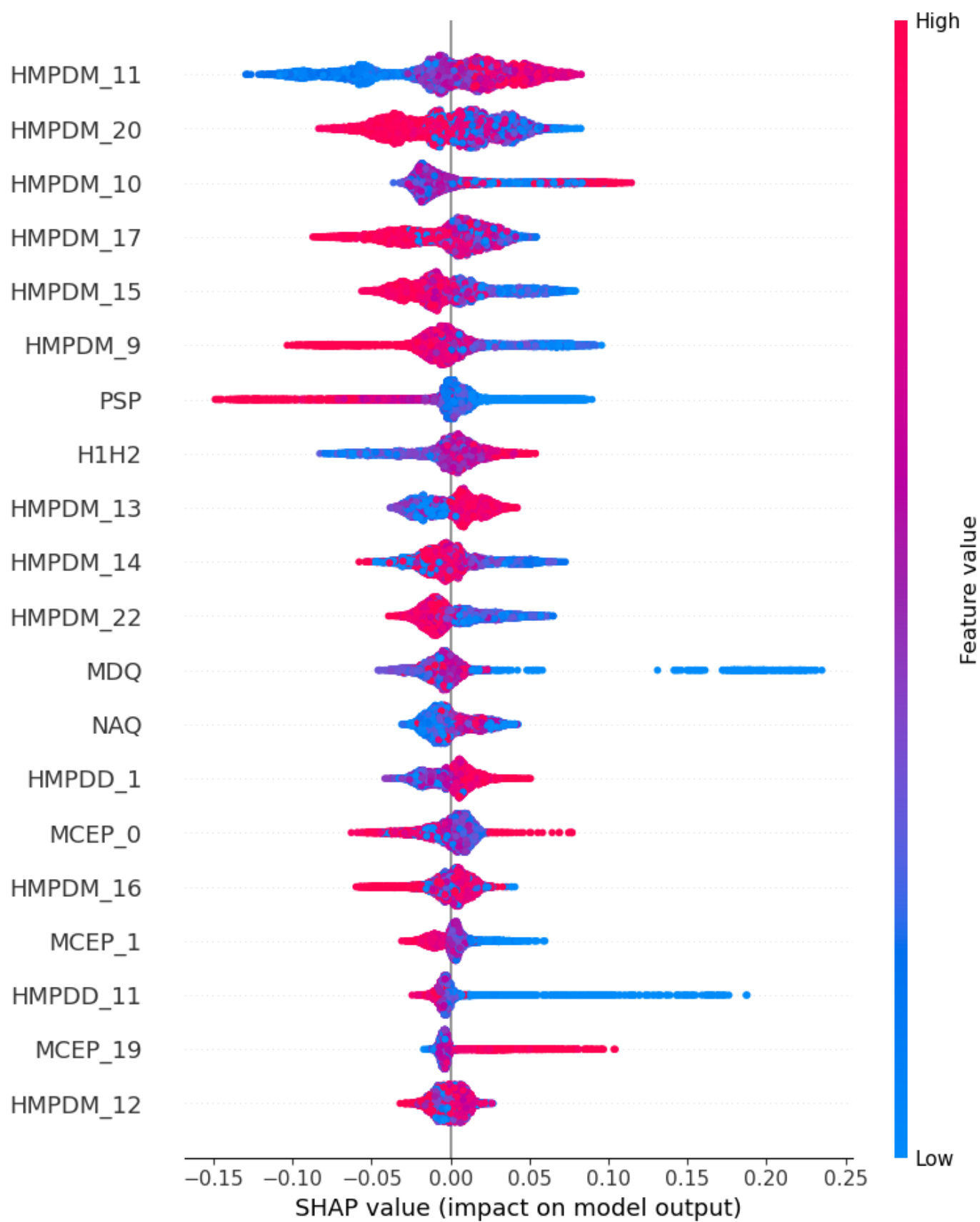


Fig. S15. Twenty most important features for Speech-Men – Iteration 5.

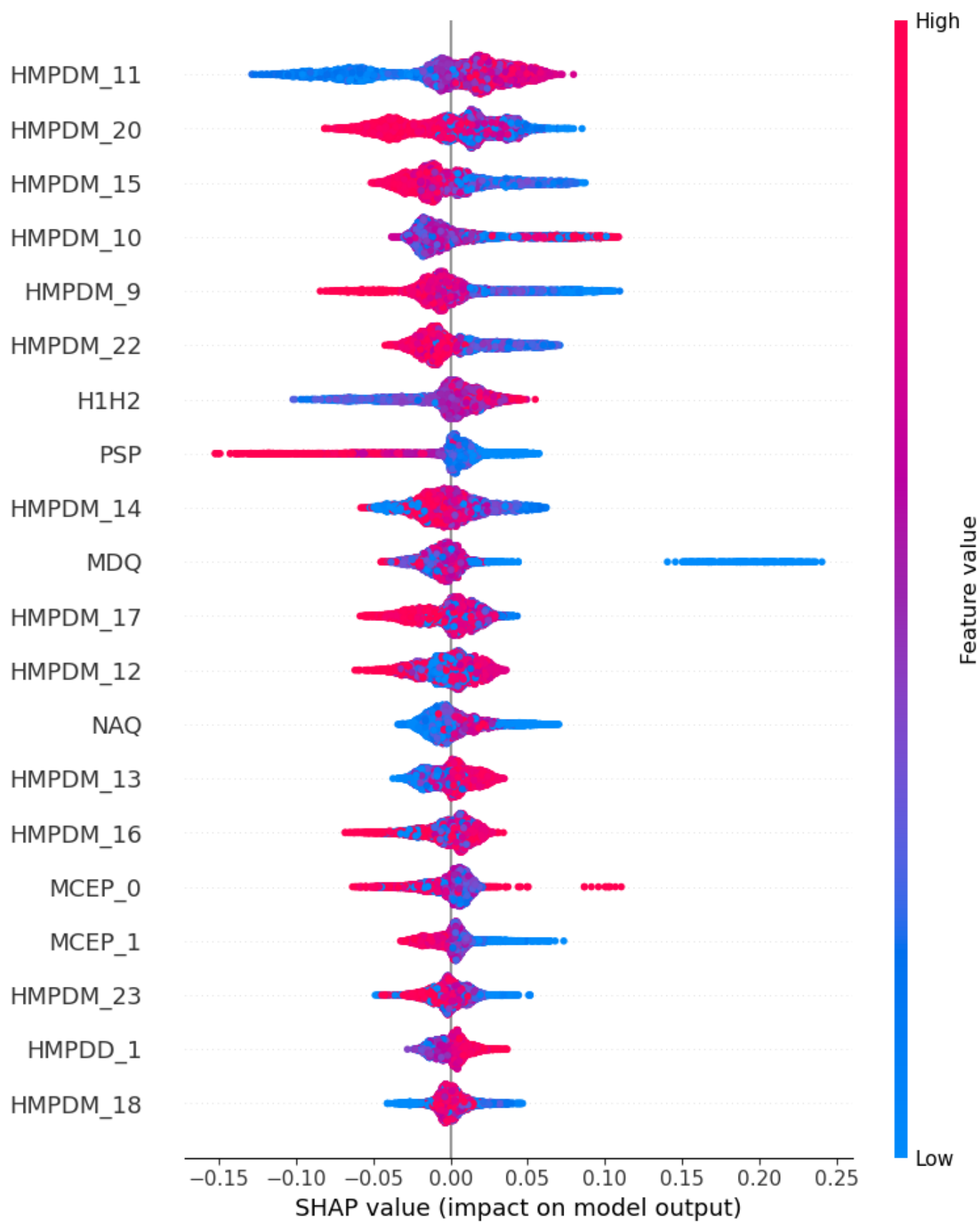


Fig. S16. Twenty most important features for Speech-Men – Iteration 6.

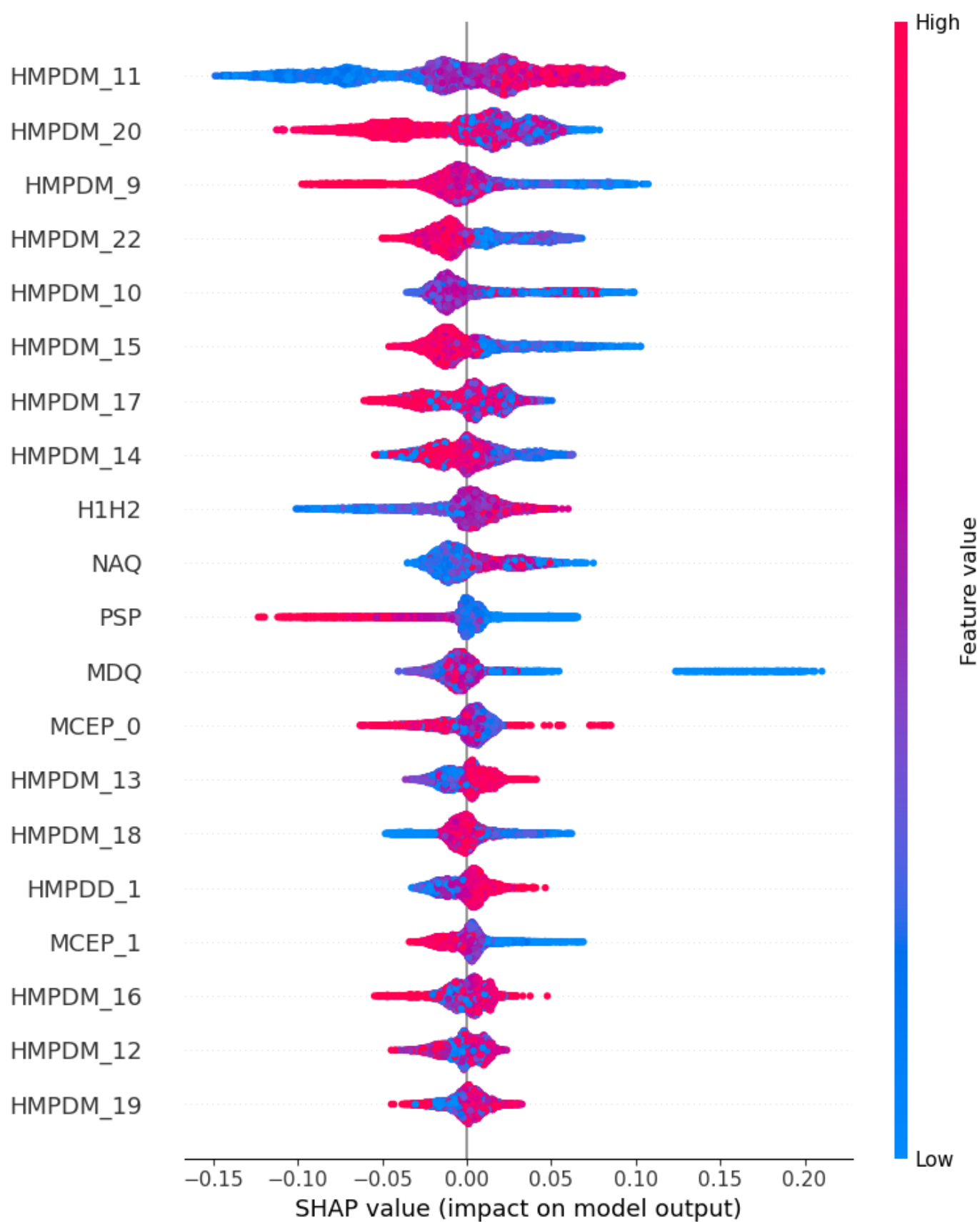


Fig. S17. Twenty most important features for Speech-Men – Iteration 7.

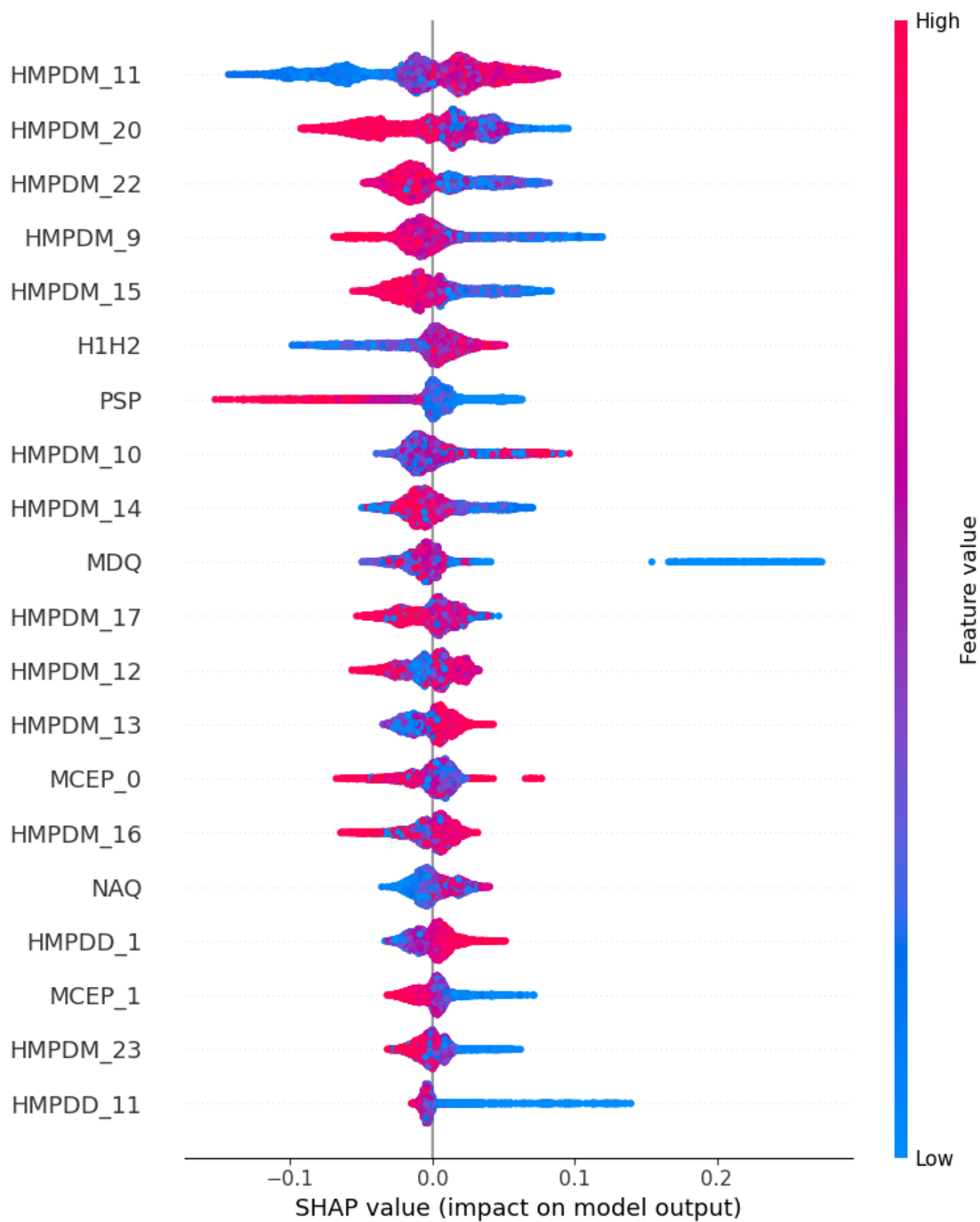


Fig. S18. Twenty most important features for Speech-Men – Iteration 8.

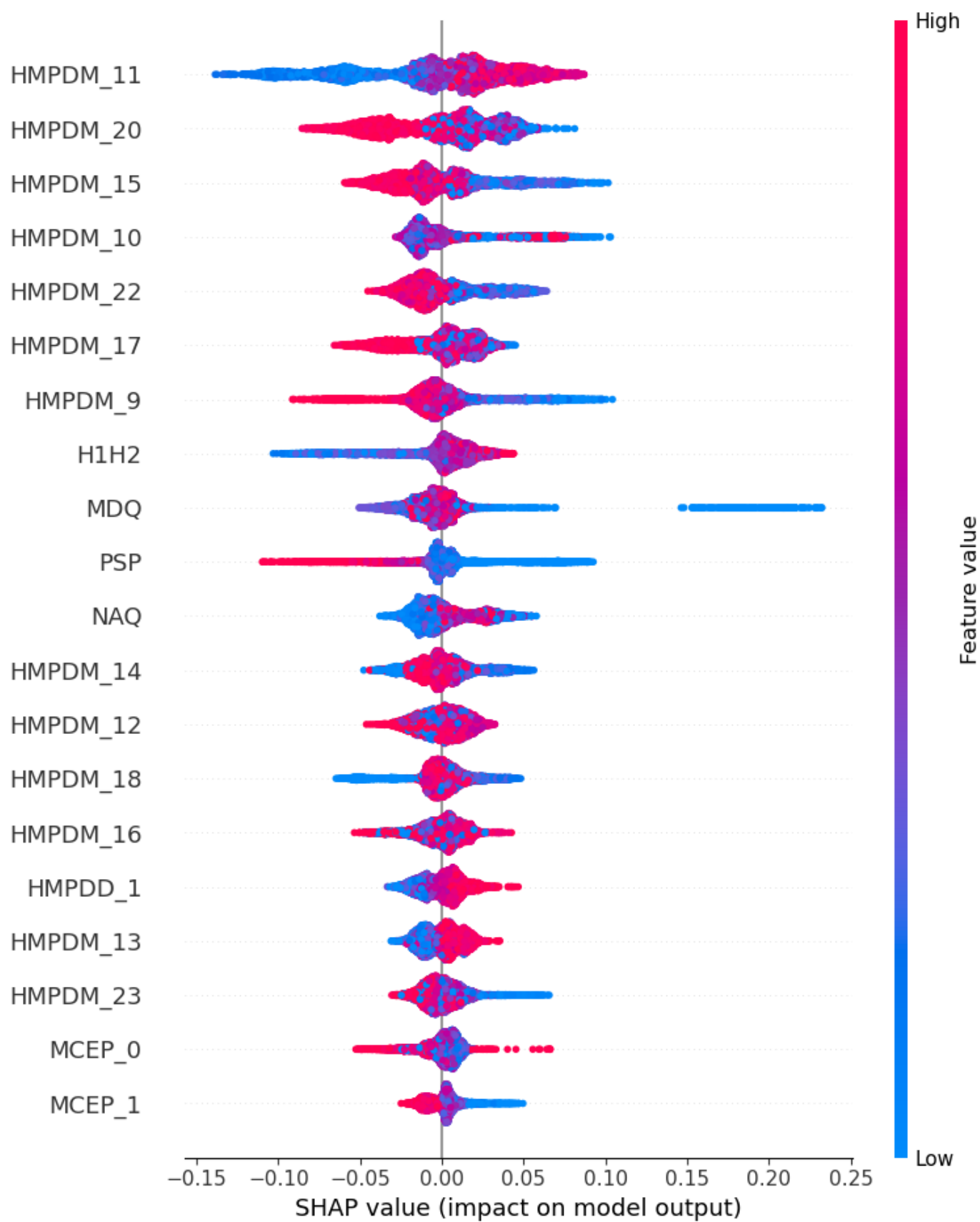


Fig. S19. Twenty most important features for Speech-Men – Iteration 9.

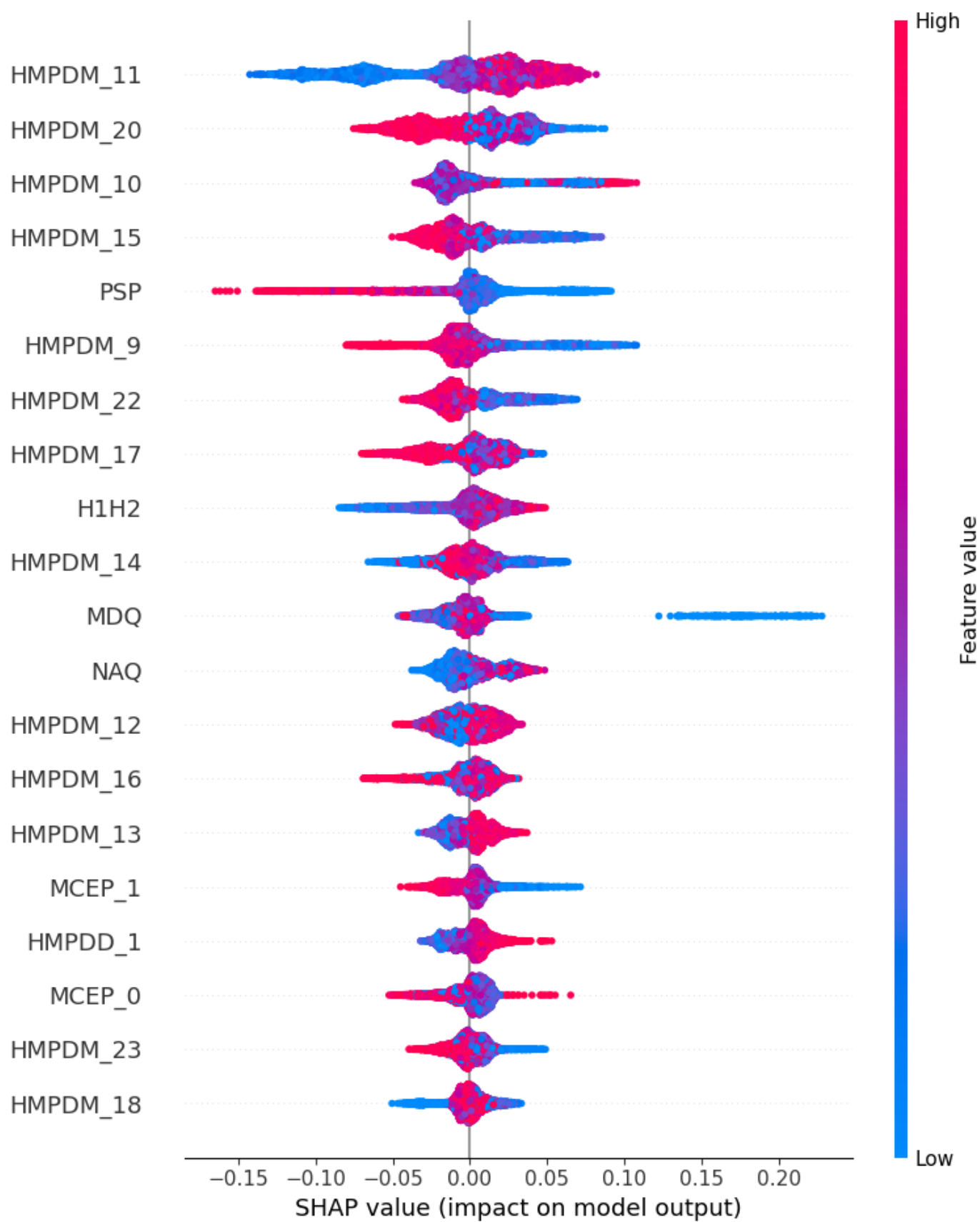


Fig. S20. Twenty most important features for Speech-Men – Iteration 10.

Supplementary Data File 3: SHAP values plots applied to the Post-Traumatic Stress Disorder class, assessing the importance of features in every iteration for the AUs-Women Model

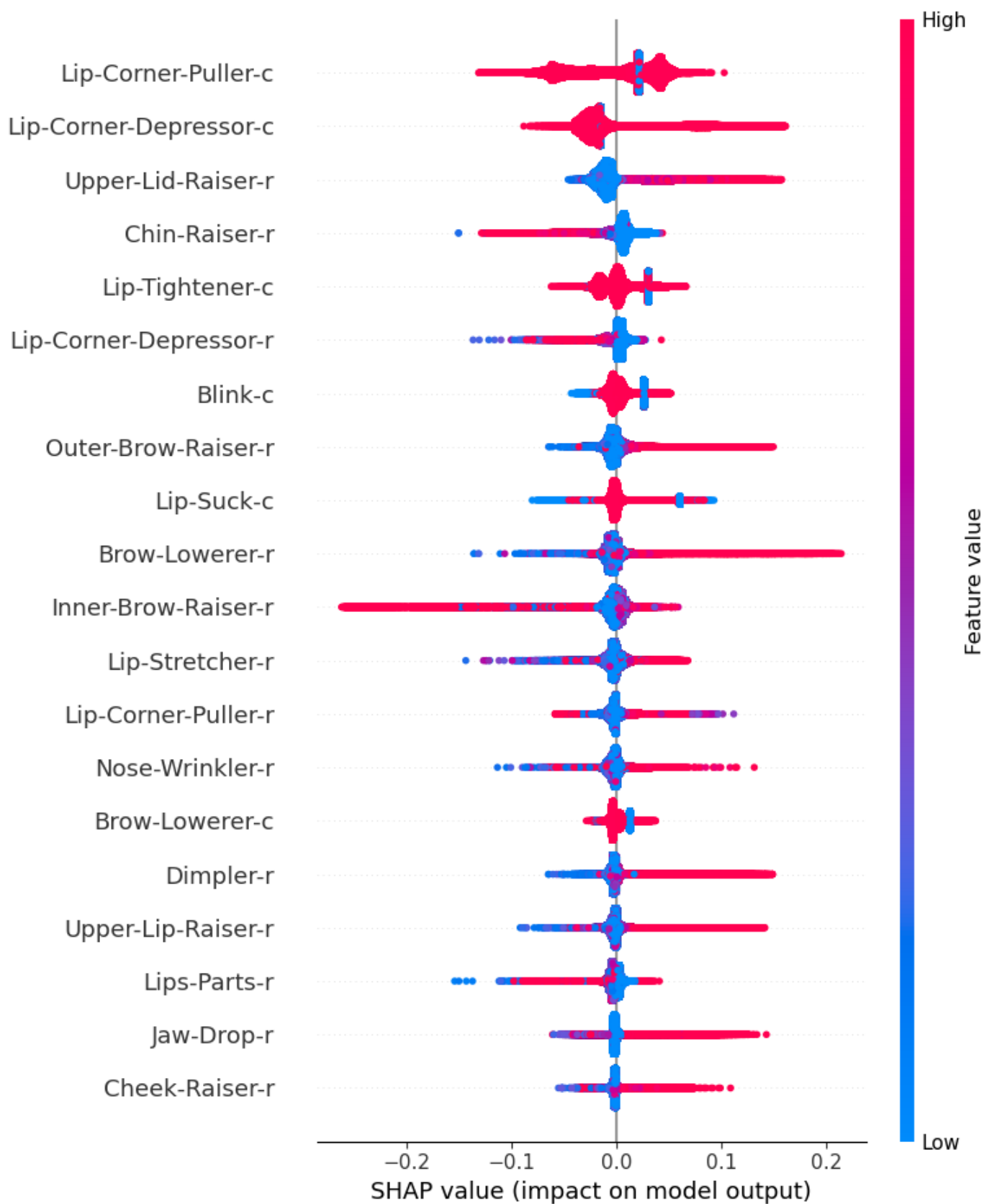


Fig. S21. Twenty most important features for AUs-Women – Iteration 1.

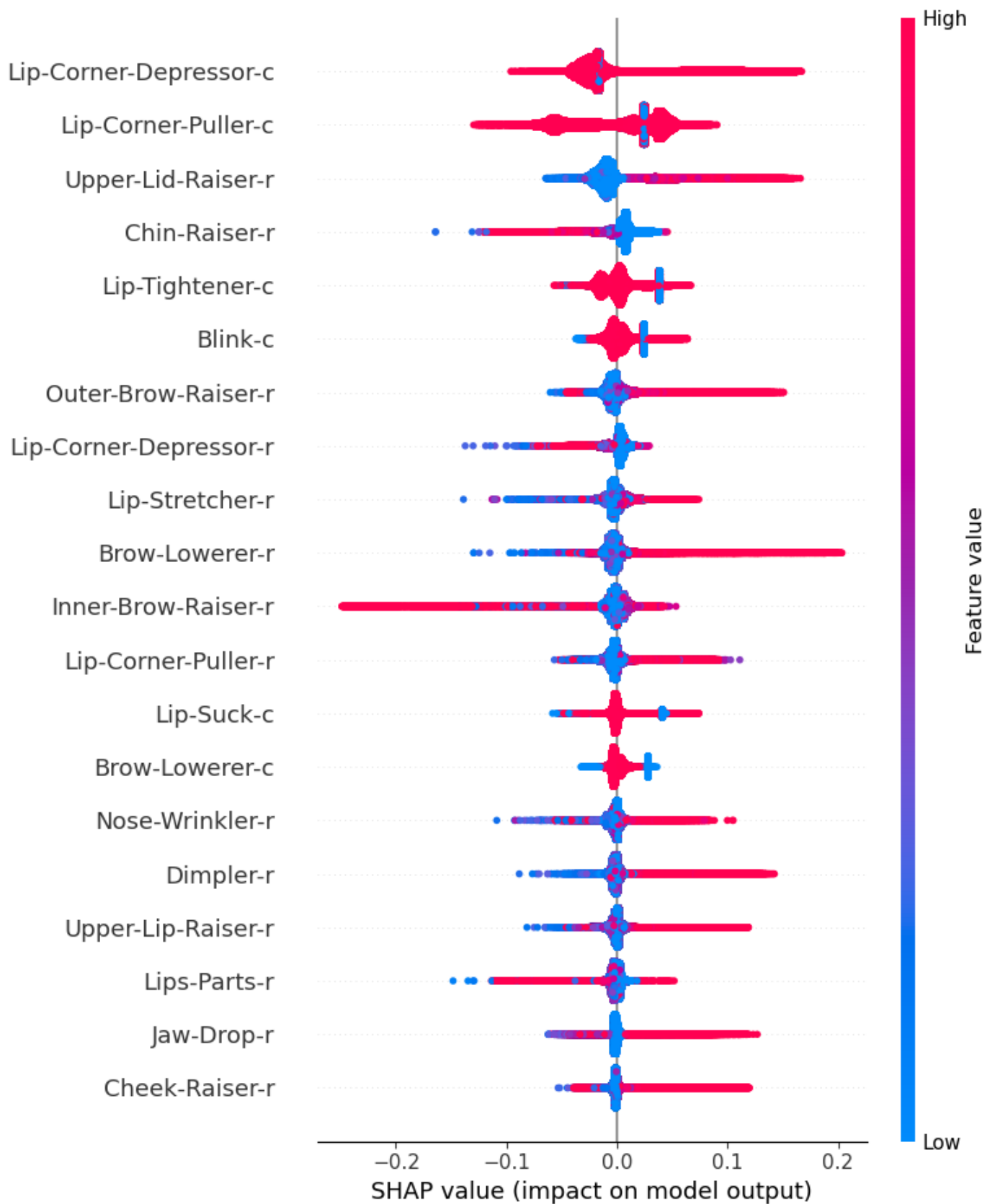


Fig. S22. Twenty most important features for AUs-Women – Iteration 2.

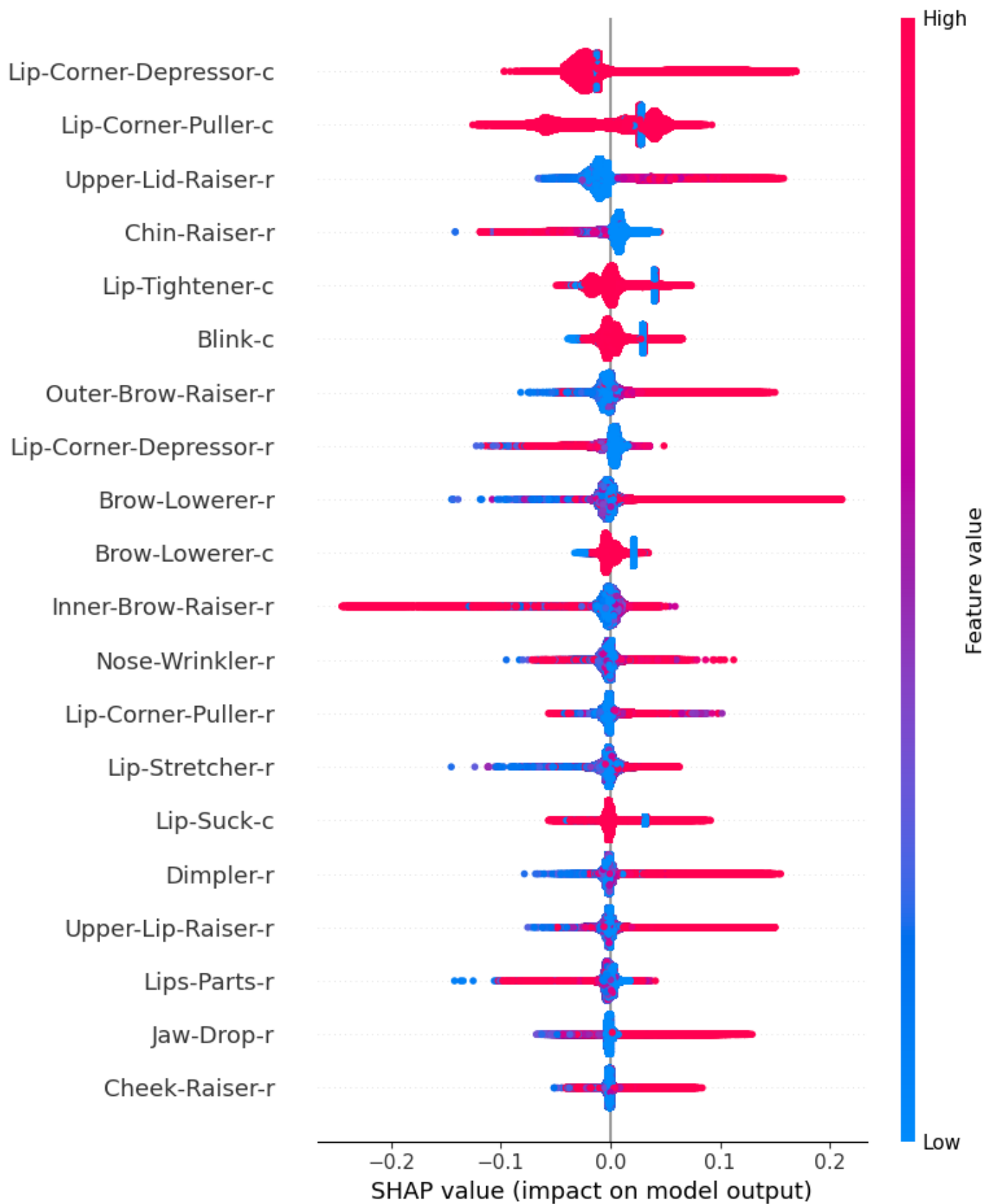


Fig. S23. Twenty most important features for AUs-Women – Iteration 3.

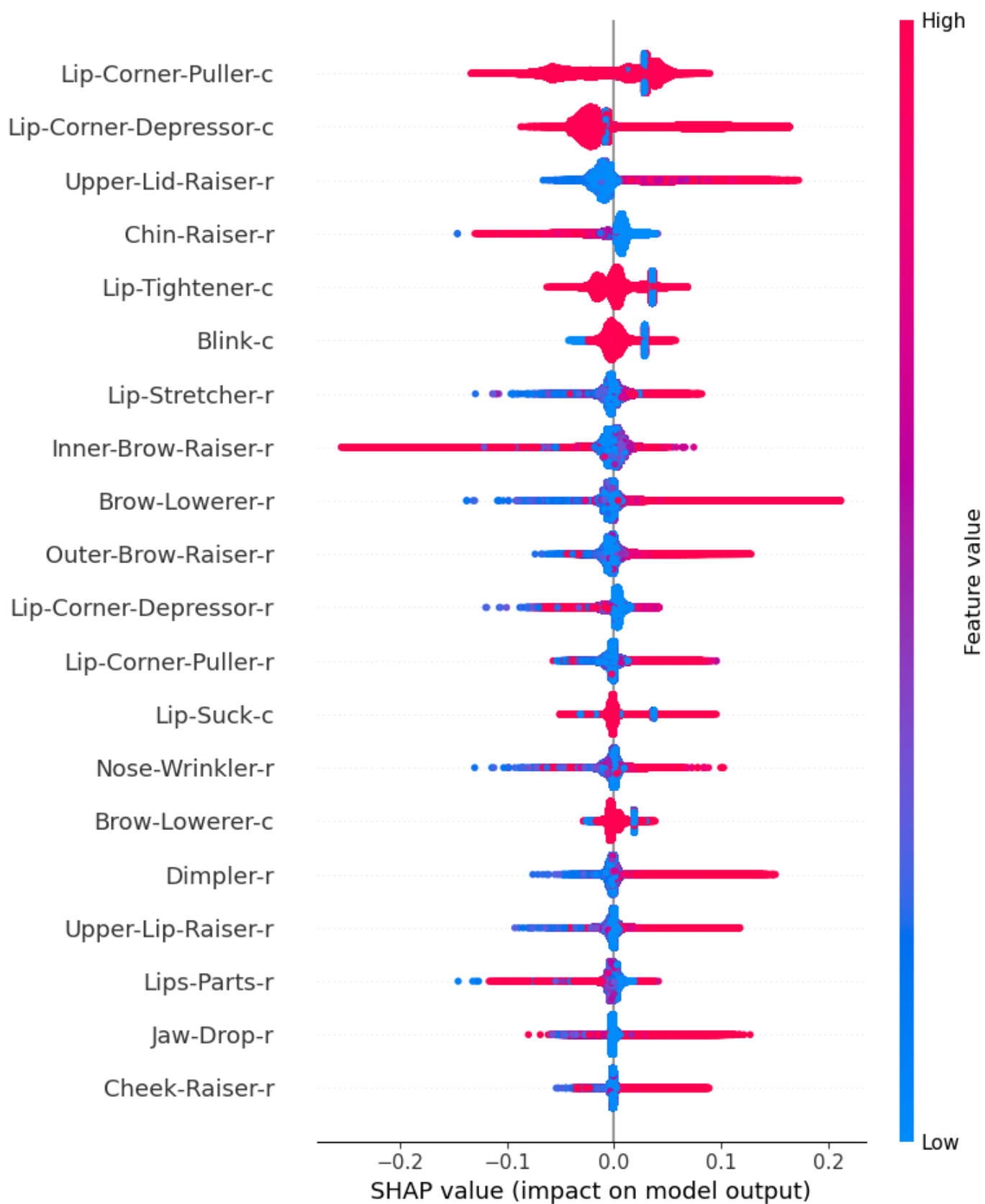


Fig. S24. Twenty most important features for AUs-Women – Iteration 4.

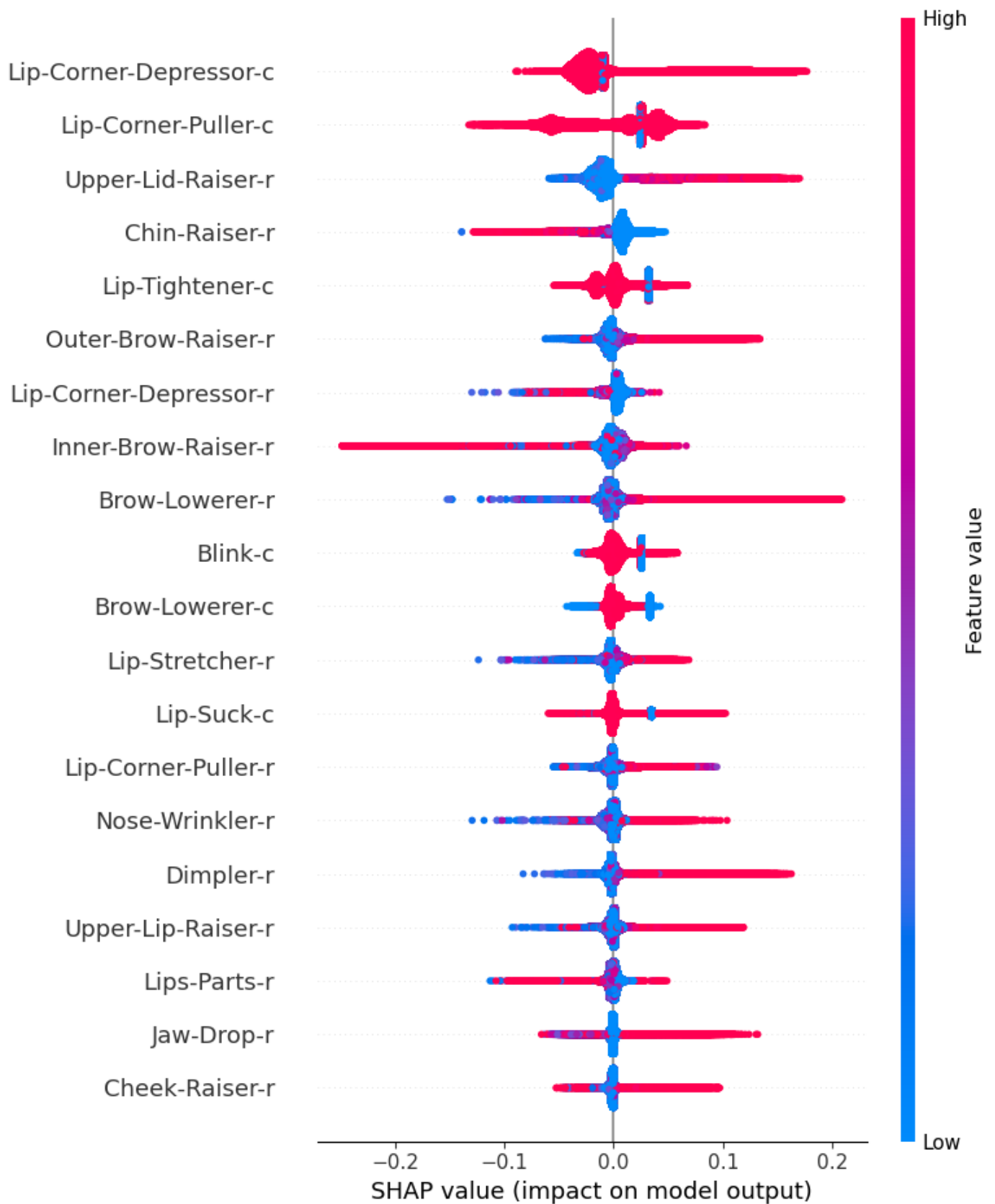


Fig. S25. Twenty most important features for AUs-Women – Iteration 5.

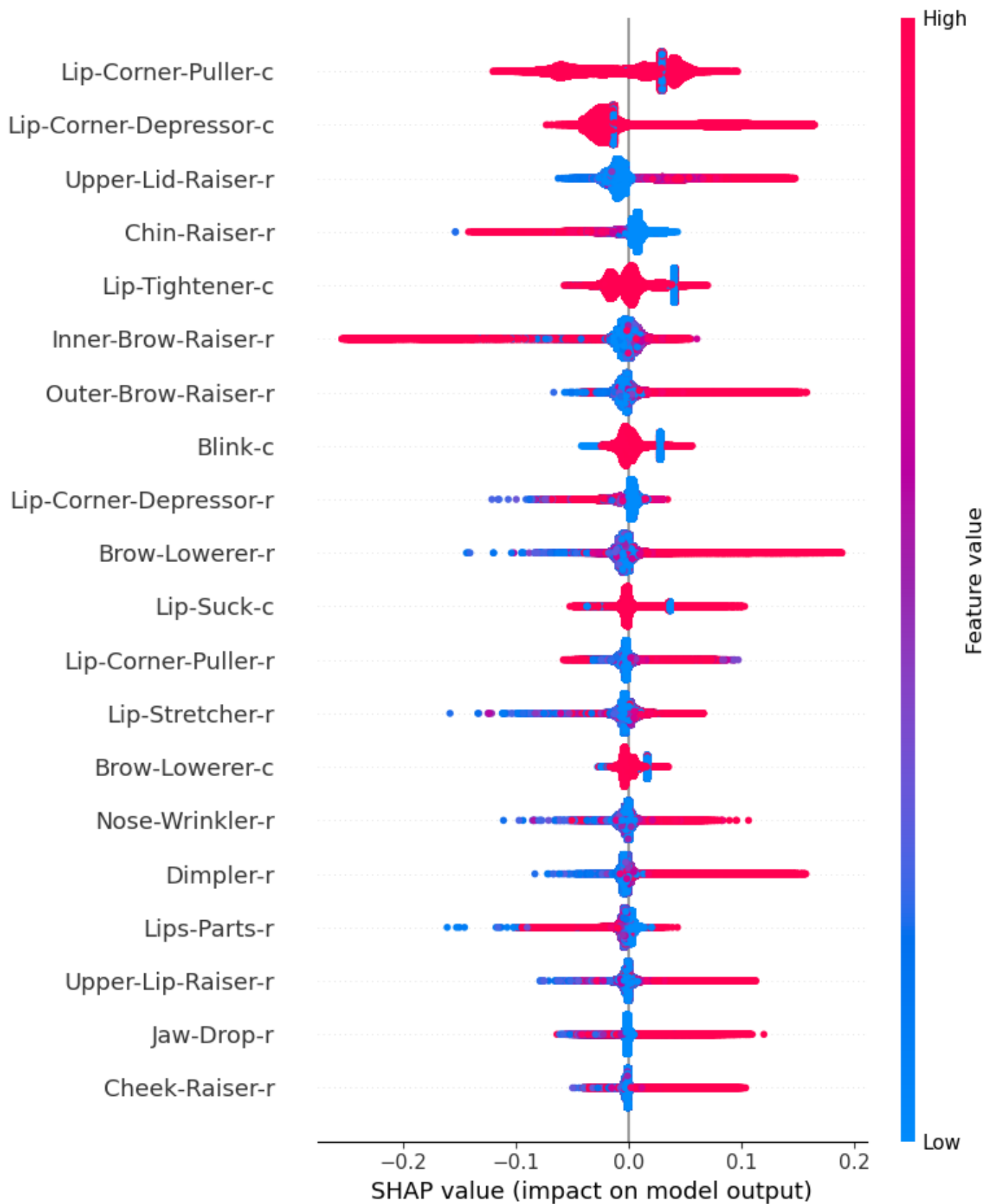


Fig. S26. Twenty most important features for AUs-Women – Iteration 6.

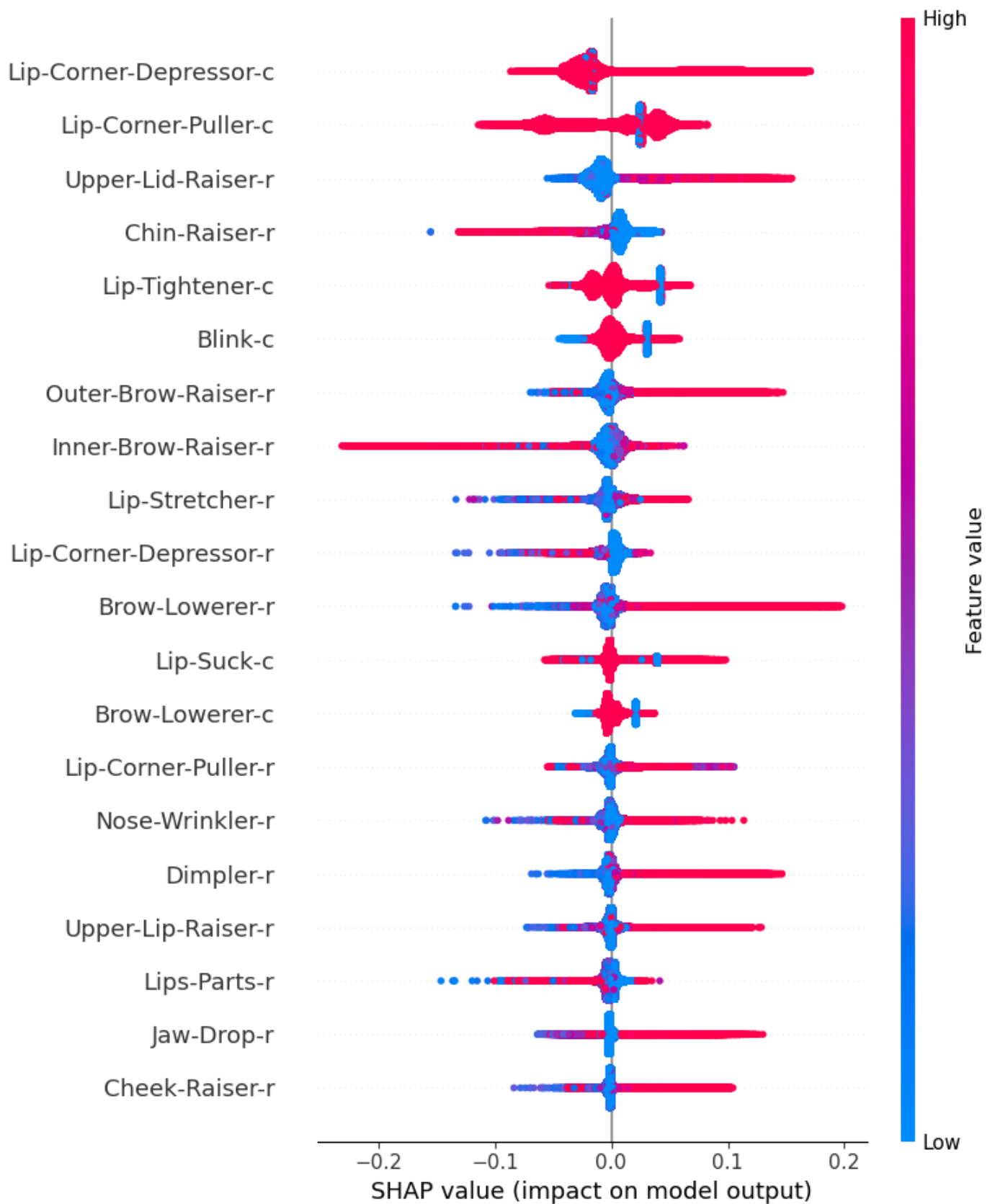


Fig. S27. Twenty most important features for AUs-Women – Iteration 7.

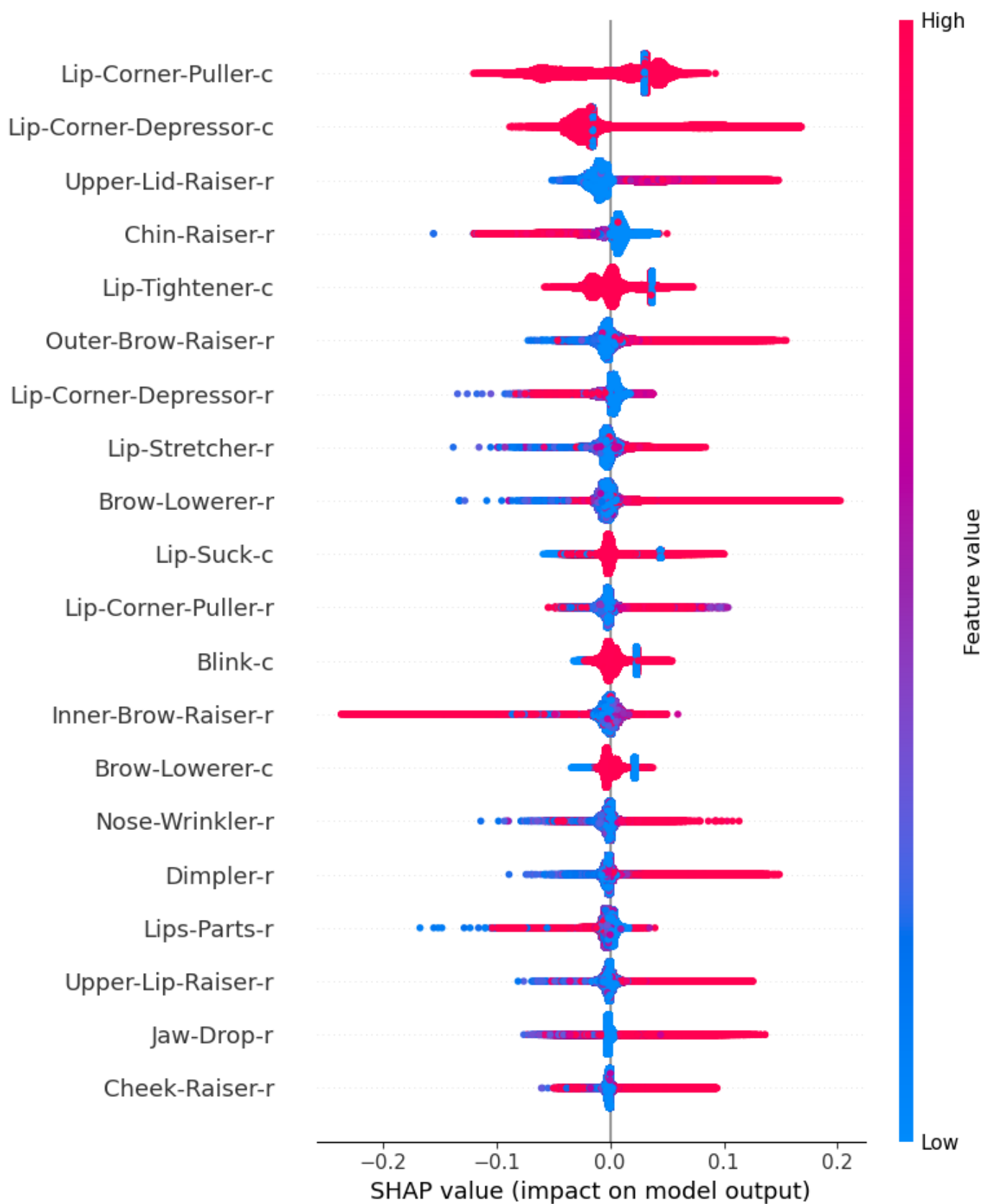


Fig. S28. Twenty most important features for AU-Weibull – Iteration 8.

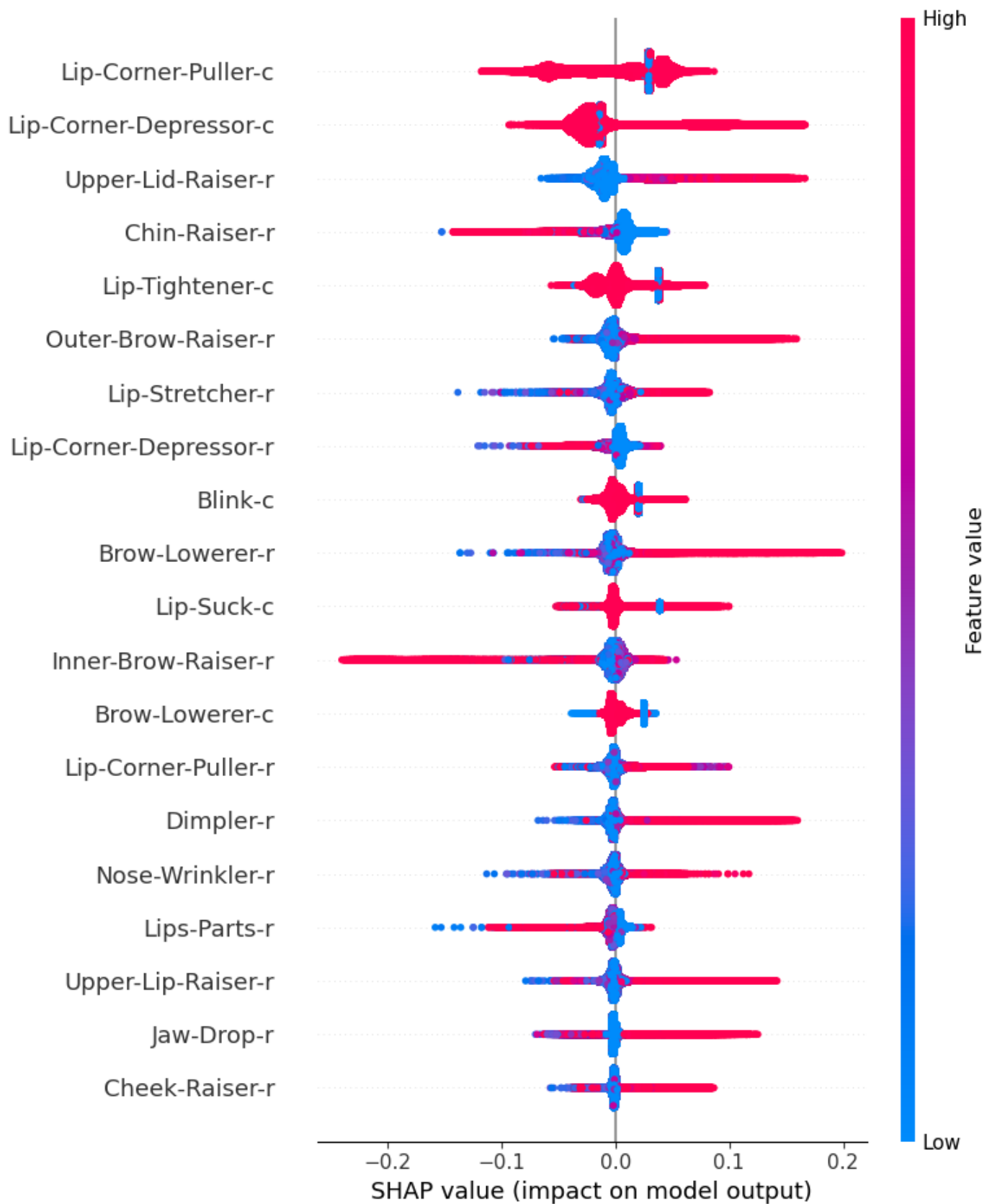


Fig. S29. Twenty most important features for AU-Weibull – Iteration 9.

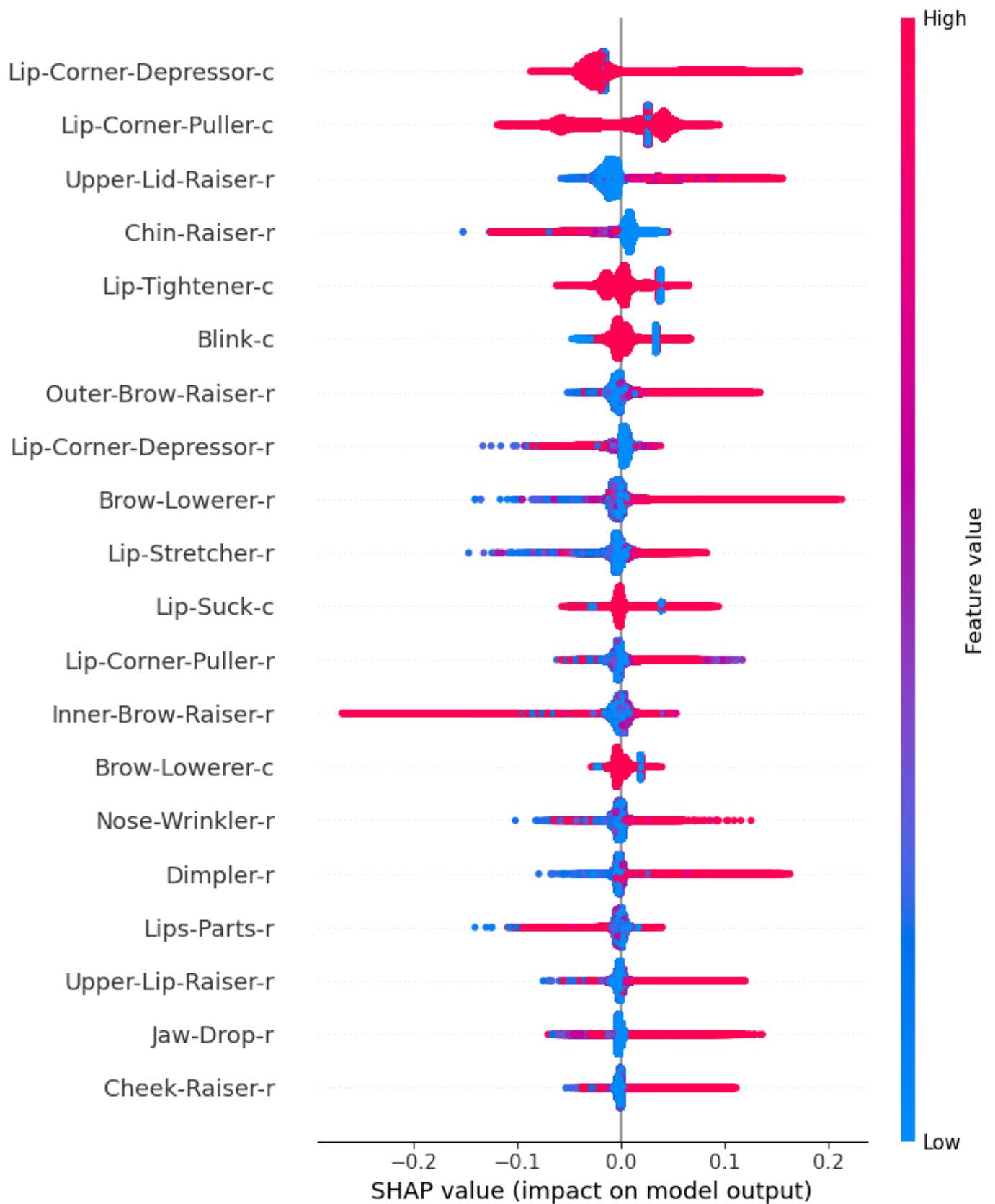


Fig. S30. Twenty most important features for AUs-Women – Iteration 10.

Supplementary Data File 4: SHAP values plots applied to the Post-Traumatic Stress Disorder class, assessing the importance of features in every iteration for the AUs-Men Model

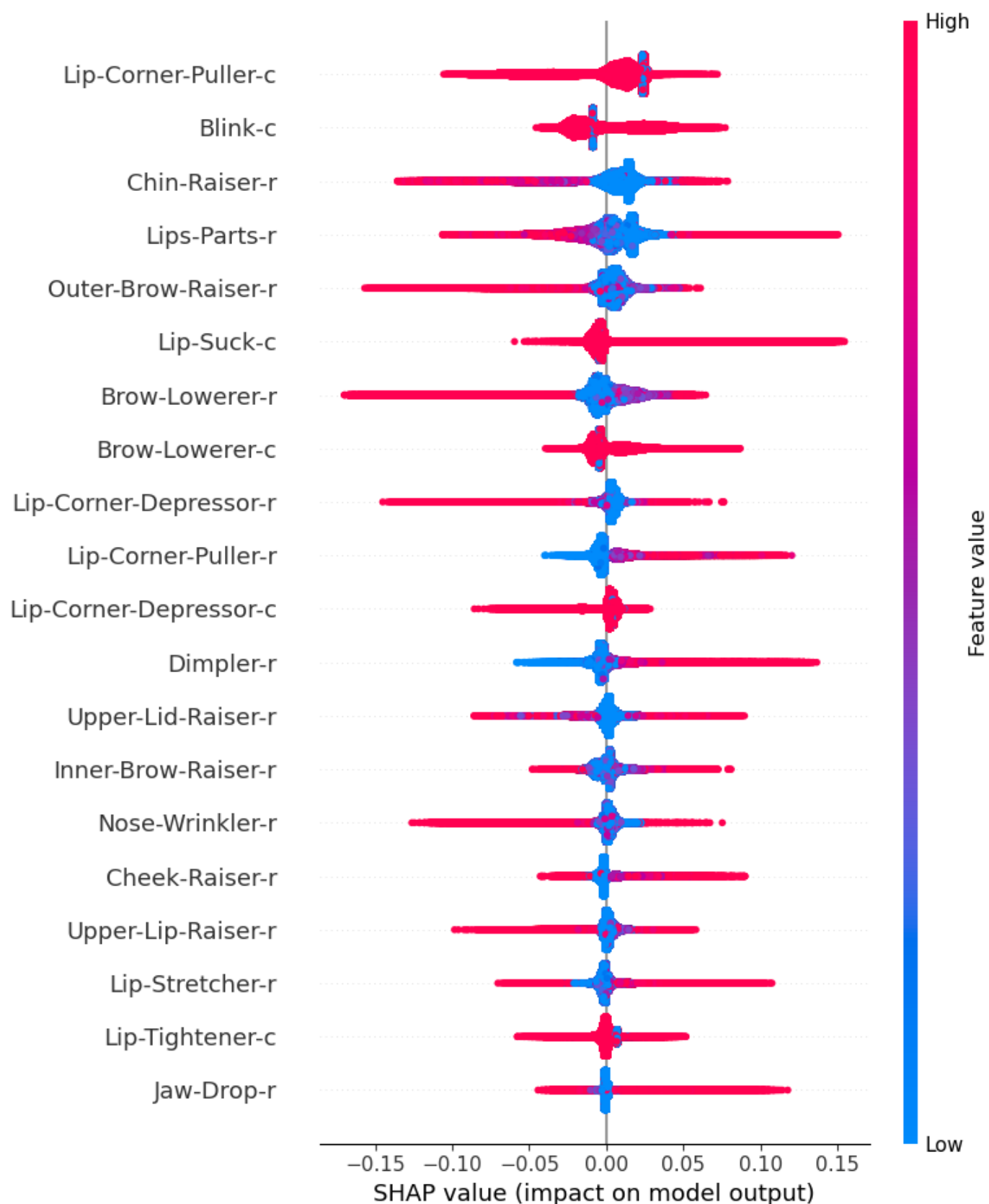


Fig. S31. Twenty most important features for AUs-Men – Iteration 1.

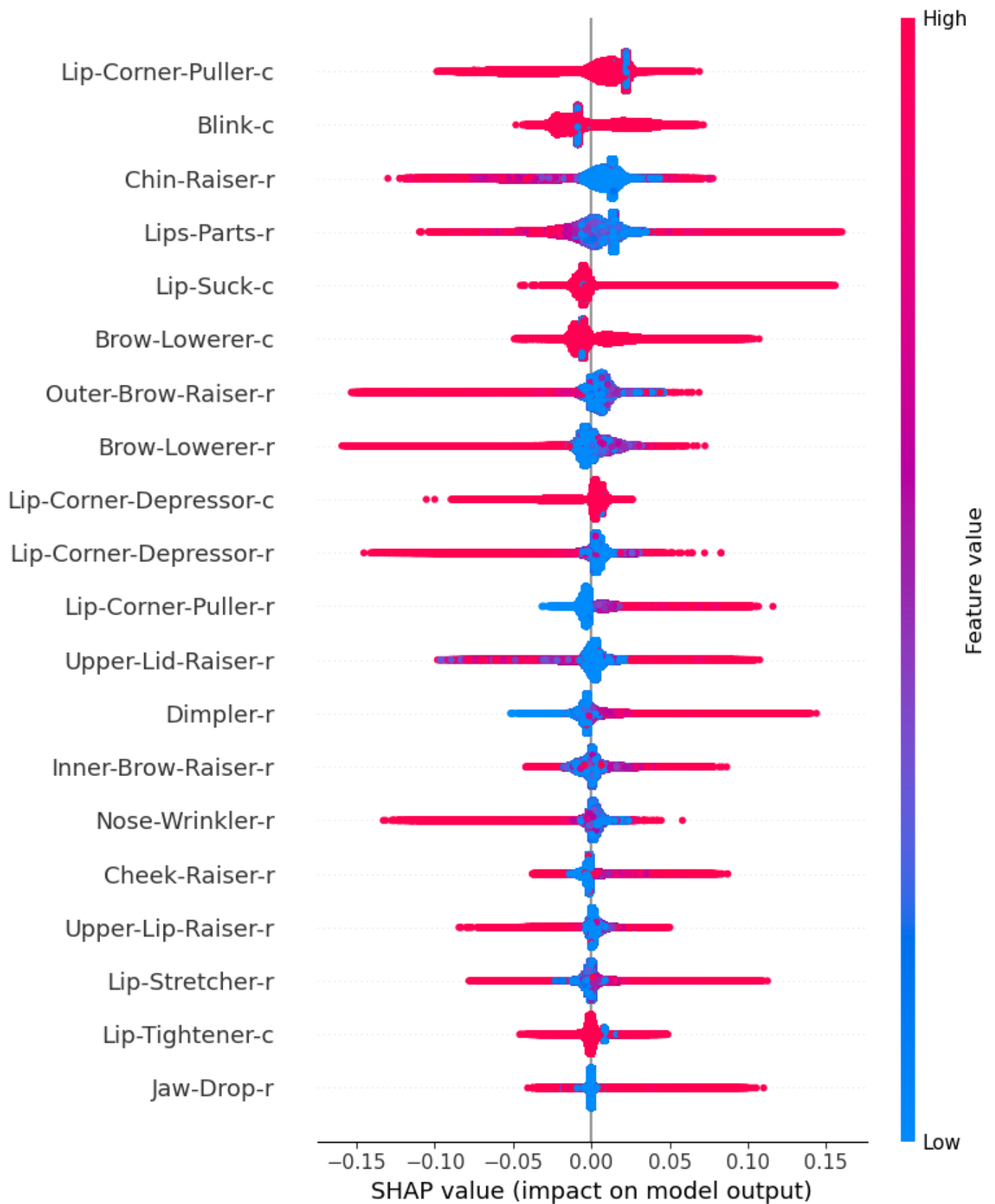


Fig. S32. Twenty most important features for AUs-Men – Iteration 2.

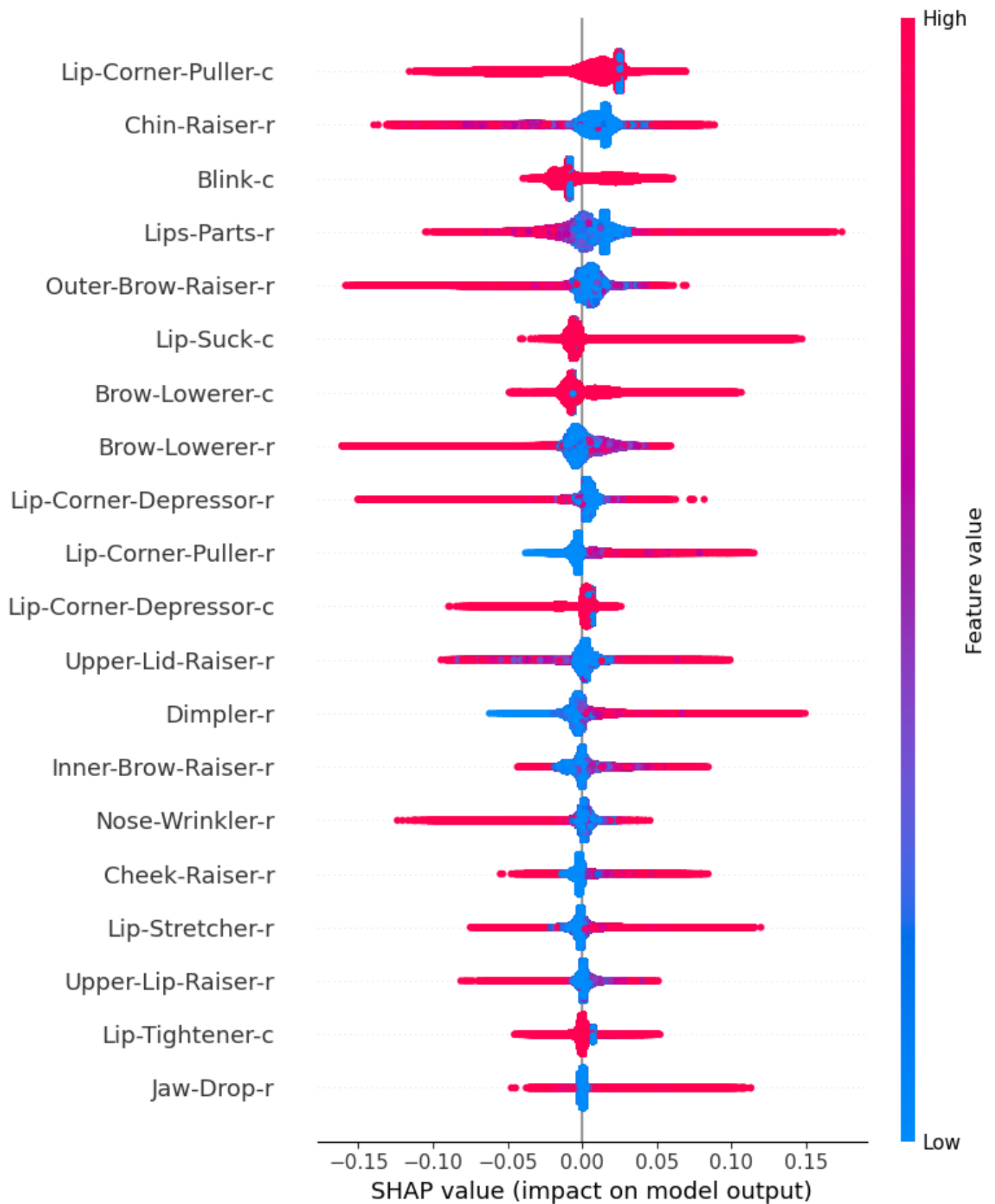


Fig. S33. Twenty most important features for AUs-Men – Iteration 3.

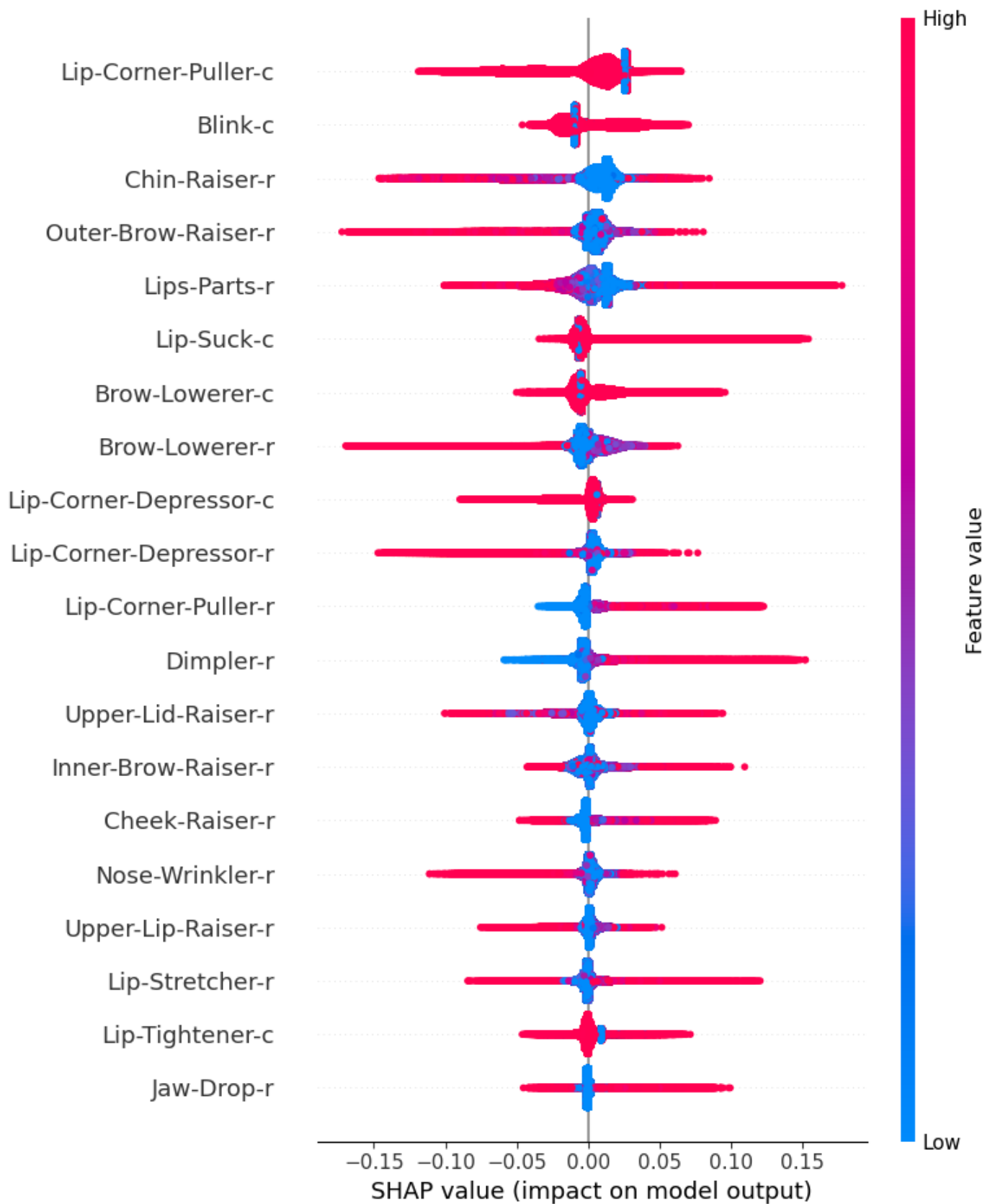


Fig. S34. Twenty most important features for AUs-Men – Iteration 4.

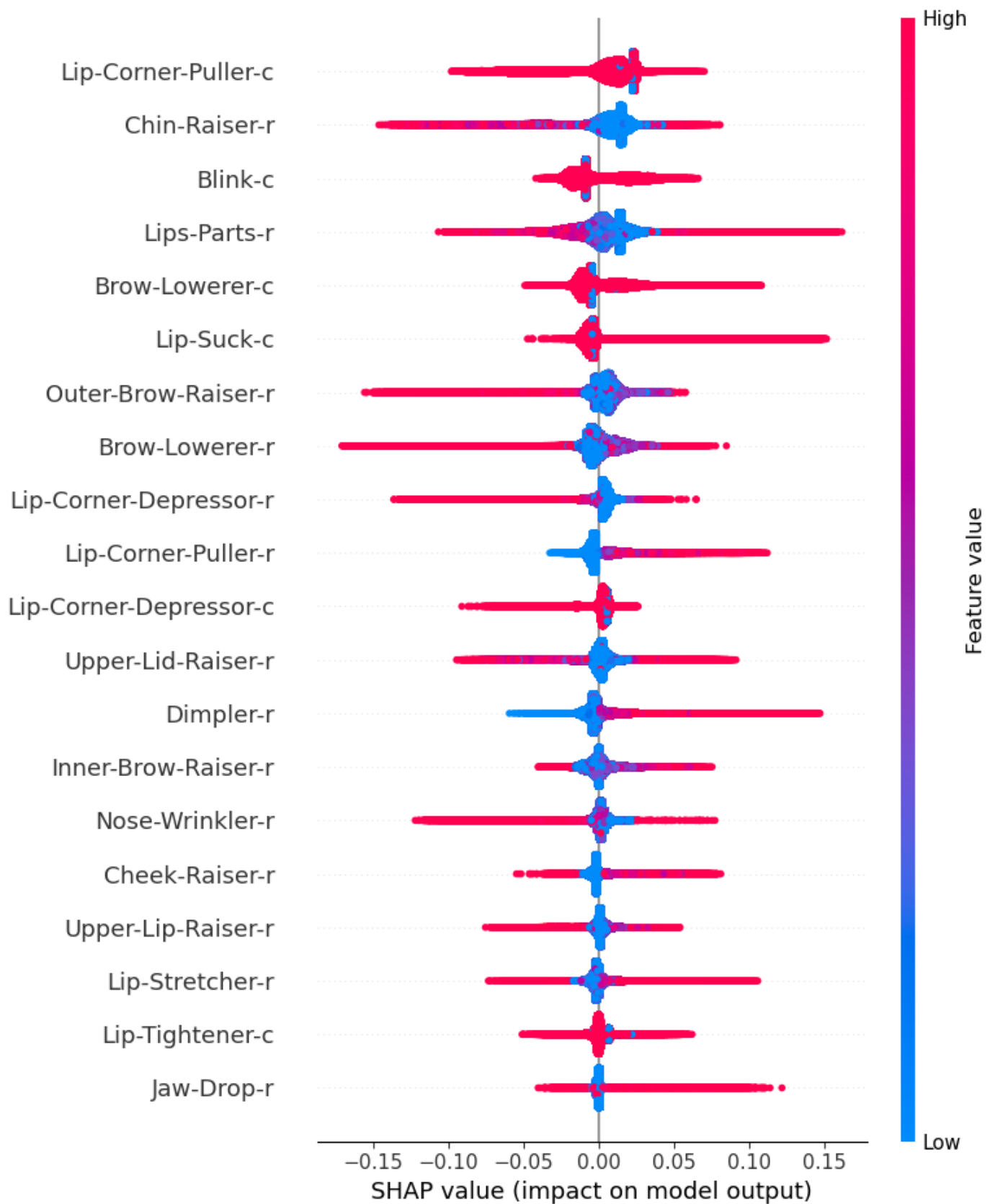


Fig. S35. Twenty most important features for AUs-Men – Iteration 5.

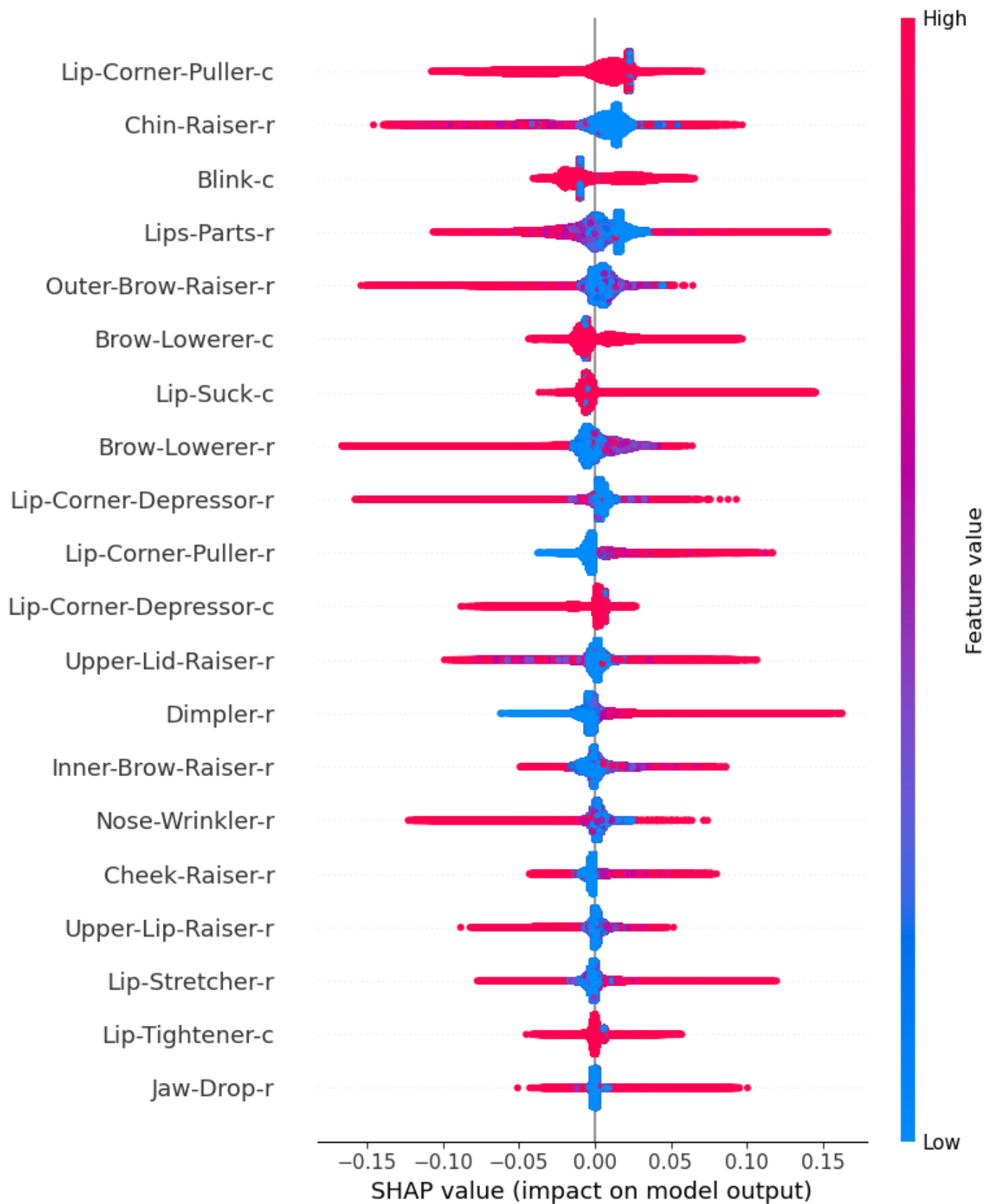


Fig. S36. Twenty most important features for AUs-Men – Iteration 6.

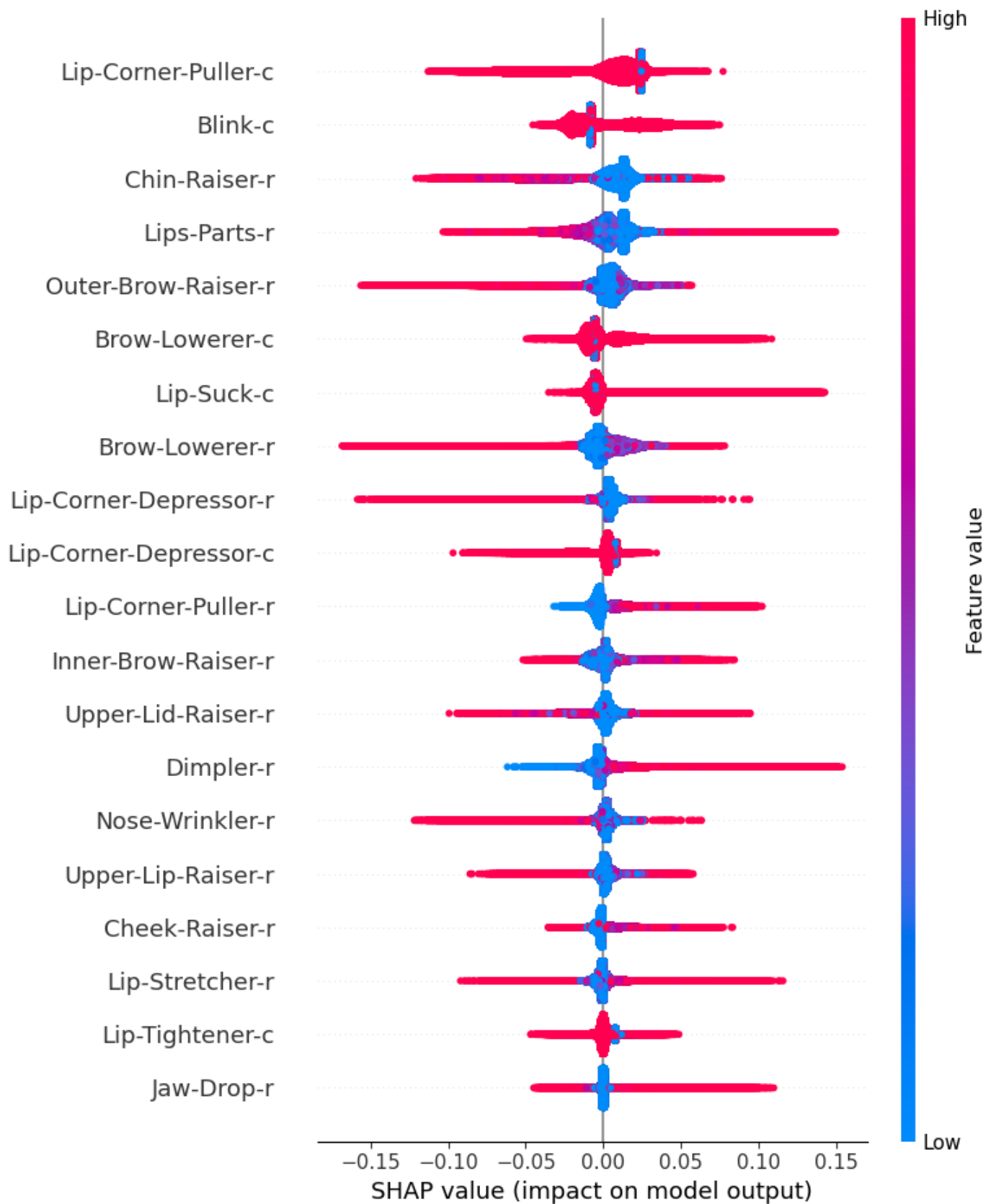


Fig. S37. Twenty most important features for AUs-Men – Iteration 7.

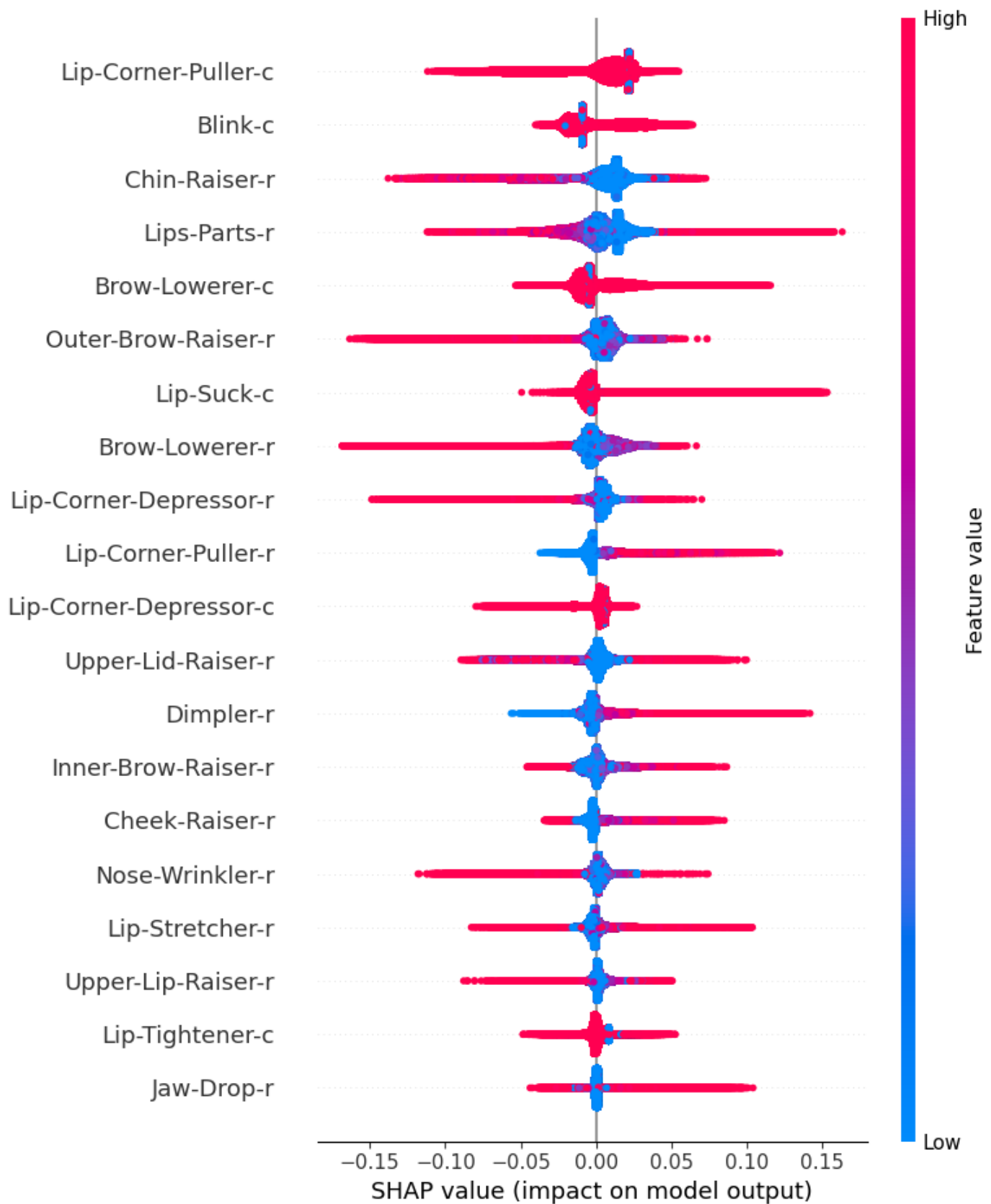


Fig. S38. Twenty most important features for AUs-Men – Iteration 8.

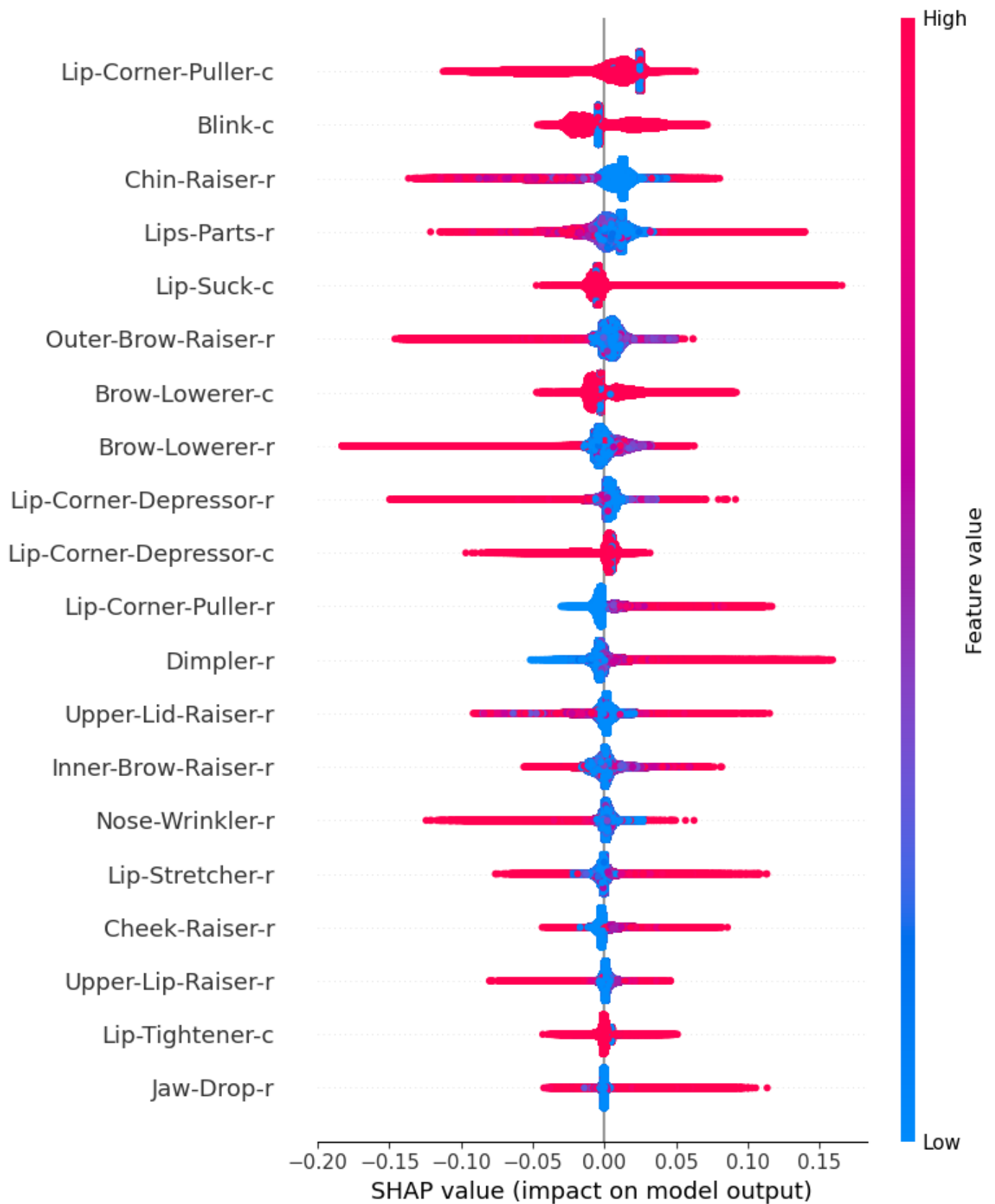


Fig. S39. Twenty most important features for AUs-Men – Iteration 9.

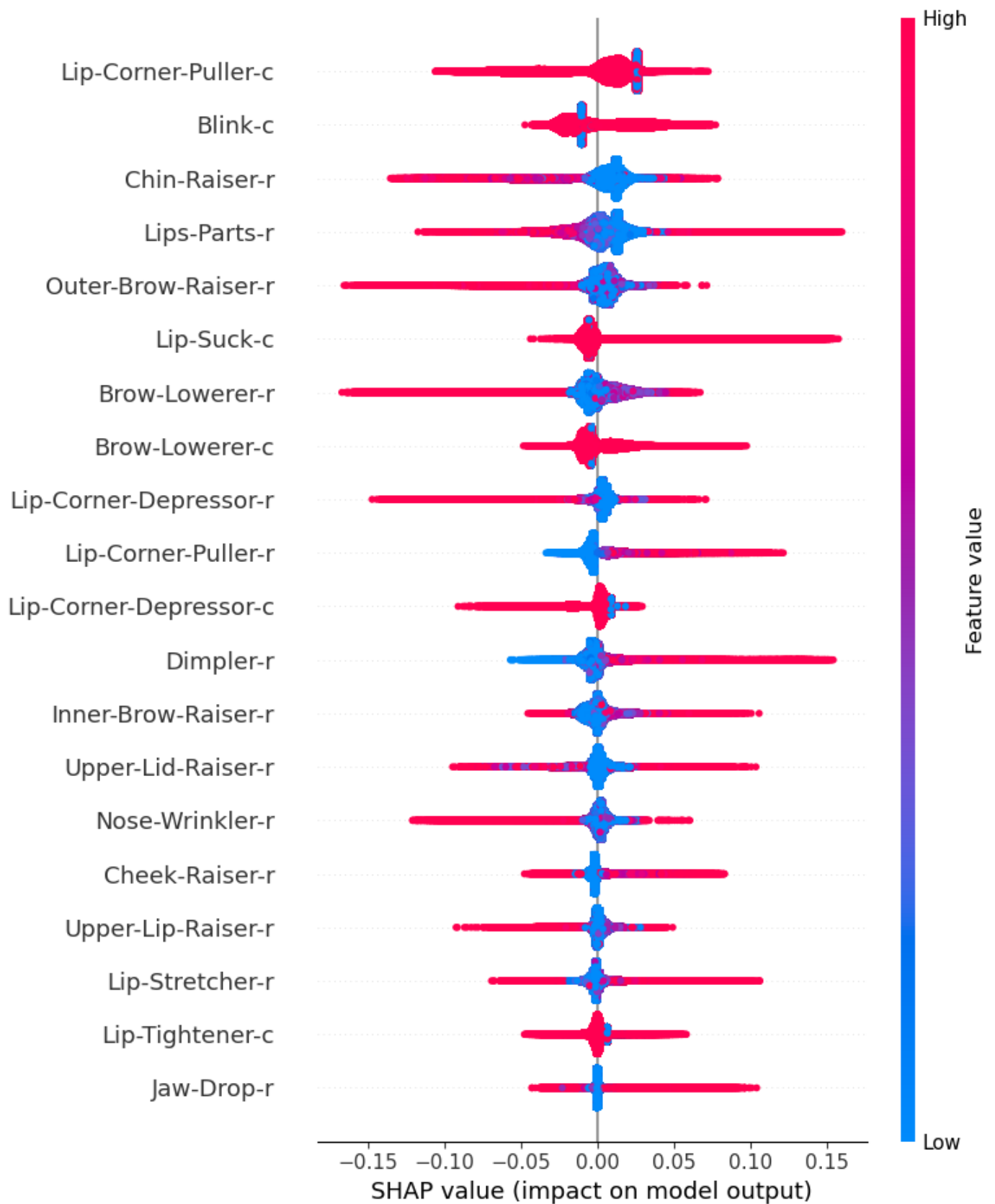


Fig. S40. Twenty most important features for AUs-Men – Iteration 10.