**3D models**

The 3D models used in this study are available at MorphoSource: <https://doi.org/10.17602/M2/M683636>；

<https://doi.org/10.17602/M2/M683642>；<https://doi.org/10.17602/M2/M683648>；

<https://doi.org/10.17602/M2/M683654>；<https://doi.org/10.17602/M2/M683660>；

<https://doi.org/10.17602/M2/M683666>；<https://doi.org/10.17602/M2/M683672>；

<https://doi.org/10.17602/M2/M683677>；<https://doi.org/10.17602/M2/M683685>；

<https://doi.org/10.17602/M2/M683691>；<https://doi.org/10.17602/M2/M683698>；

<https://doi.org/10.17602/M2/M683705>；<https://doi.org/10.17602/M2/M683711>；

<https://doi.org/10.17602/M2/M683717>；<https://doi.org/10.17602/M2/M683723>；

<https://doi.org/10.17602/M2/M683729>；<https://doi.org/10.17602/M2/M683735>；

<https://doi.org/10.17602/M2/M683741>；<https://doi.org/10.17602/M2/M683747>；

<https://doi.org/10.17602/M2/M683753>；<https://doi.org/10.17602/M2/M683759>；

<https://doi.org/10.17602/M2/M683766>；<https://doi.org/10.17602/M2/M683771>；

<https://doi.org/10.17602/M2/M683786>；<https://doi.org/10.17602/M2/M683792>；

<https://doi.org/10.17602/M2/M683798>；<https://doi.org/10.17602/M2/M683804>；

<https://doi.org/10.17602/M2/M683810>；<https://doi.org/10.17602/M2/M683816>；

<https://doi.org/10.17602/M2/M683822>；<https://doi.org/10.17602/M2/M683828>；

<https://doi.org/10.17602/M2/M683834>；<https://doi.org/10.17602/M2/M683840>；

**Measurement of Hemodynamic Metrics**

The WSS at the stenosis during the extraction of peak blood flow velocity in the third cardiac cycle is represented by . T is the cardiac cycle. The equations for the parameters TAWSS, OSI, and RRT based on WSS can be expressed as follows:

|  |  |
| --- | --- |
|  | (1) |
|  | (2) |
|  | (3) |