**Supplementary material**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Haemodynamic Index** | **Coarse Mesh** | **Medium Mesh** | **Fine Mesh** | **Percentage of Difference Between Coarse and Fine Meshes** | **Percentage of Difference Between Medium and Fine Meshes** |
| **(No.Elements=1Million)** | **(No.Elements=1.8Millions)** | **(No.Elements=3.4Millions)** |
| **Inlet Pressure [kPa]** | 18.1778 | 20.1350 | 19.9820 | 9.79% | 0.77% |
| **Maximum Velocity at plane 1 [m/s]** | 1.1260 | 1.2985 | 1.2976 | 13.29% | 0.07% |
| **Maximum Velocity at plane 2 [m/s]** | 1.1092 | 1.2794 | 1.2769 | 13.32% | 0.19% |
| **Maximum Velocity at plane 3 [m/s]** | 1.2217 | 1.5274 | 1.4874 | 20.55% | 2.69% |
| **Maximum Velocity at plane 4 [m/s]** | 1.2353 | 1.1872 | 1.1726 | 4.10% | 1.24% |
| **Maximum Velocity at plane 5 [m/s]** | 1.3638 | 1.5396 | 1.5064 | 11.67% | 2.20% |
| **WSS at region 1 [Pa]** | 4.4191 | 6.5237 | 6.7841 | 31.02% | 3.84% |
| **WSS at region 2 [Pa]** | 3.7250 | 4.9626 | 4.9981 | 24.76% | 0.71% |
| **WSS at region 3 [Pa]** | 6.7390 | 7.3676 | 7.7070 | 8.16% | 4.40% |

