Supplemental Table 2: univariable and multivariable analysis after imputation (all-cause mortality and secondary interventions)

|                     | Univariable analysis | Multivariable analysis |
|---------------------|----------------------|------------------------|
|                     | Mortality            | Secondary interventions | Mortality | Secondary interventions |
|                     | **Hazard ratio**     | **95% CI**             | **Hazard ratio** | **95% CI** | **Hazard ratio** | **95% CI** |
| Age*                | 1.060                | 1.041-1.079            | 0.987       | 0.968-1.007 | 1.064          | 1.045-1.083 |
| Gender              | 0.956                | 0.690-1.322            | 0.783       | 0.522-1.175 |
| ASA I/II            | Reference            | Reference              | Reference   | Reference   | Reference       | Reference   |
| ASA III             | 1.070                | 0.836-1.371            | 1.187       | 0.859-1.641 | 1.100          | 0.854-1.416  | 0.945       | 0.644-1.387 |
| ASA IV*/**          | 2.899                | 1.814-4.633            | 3.166       | 1.765-5.678 | 3.203          | 1.994-5.145  | 2.598       | 1.297-5.204 |
| Neck length**       | 1.034                | 0.929-1.151            | 0.792       | 0.675-0.930 |                |            | 0.790       | 0.665-0.939 |
| Endurant (Medtronic)| Reference            | Reference              | Reference   | Reference   | Reference       | Reference   |
| Talent (Medtronic)  | 0.640                | 0.382-1.072            | 0.642       | 0.306-1.346 | 0.736          | 0.438-1.235  | 0.570       | 0.225-1.444 |
| Excluder (Gore)*/** | 0.706                | 0.505-0.986            | 0.733       | 0.467-1.150 | 0.706          | 0.505-0.987  | 0.566       | 0.327-0.982 |
| Zenith (Cook)*      | 0.707                | 0.537-0.930            | 0.959       | 0.674-1.365 | 0.679          | 0.513-0.898  | 1.008       | 0.663-1.532 |
| Other               | 0.413                | 0.181-0.939            | 0.953       | 0.435-2.087 | 0.480          | 0.210-1.093  | 0.985       | 0.390-2.486 |
| AAA diameter        | 1.048                | 0.949-1.159            | 1.111       | 0.979-1.262 |                |            |            |            |
|                              |        |        |        |        |
|------------------------------|--------|--------|--------|--------|
| Maximum iliac diameter       | 1.056  | 0.894-1.246 | 1.212 | 0.993-1.479 |
| Change in AAA diameter       |        |        |        |        |
| Stable or decrease           | Reference | Reference | Reference | Reference |
| Increase**                   | 1.013  | 0.756-1.357 | 2.335 | 1.687-3.232 |
|                              |        |        |        |        |

Abbreviations: AAA; abdominal aortic aneurysm, ASA; American Society of Anesthesiologists, CI; confidence interval

*variables significantly related to mortality in multivariable analysis

**variables significantly related to secondary interventions in multivariable analysis