**Appendix 1:** Patient characteristics and surgery details-comparison of included and excluded patients

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|  | **Included patients****n=318** | **Excluded patients****n=3 915** | **p-value** |
| Male sex, n (%)Yes | (N=318)273 (85.9)  | (N=3 915)3 177 (81.2) | 0.038 |
| Surgery, n (%)Yes (open surgery or EVAR) | (N=318)252 (79.3) | (N=3 915)3 136 (80.1) | 0.713 |
| Unfit for surgery, n (%)Yes | (N=276)21 (7.6) | (N=3 396)224 (6.6) | 0.517 |
| Age at first scan (years), mean (95% CI) | (N=181)71.7 (70.6;72.8) | (N=2 254)72.5 (72.1;72.8) | 0.215 |
| Modality initial scan, n (%)UltrasoundCTMR | (N=304)194 (63.8)102 (33.6)8 (2.6) | (N=3 328)2 134 (64.1)1 093 (32.9)101 (3.0) | 0.906 |
| Follow-up Number of scans, mean (95% CI) | (N=318)2.58 (2.35;2.80) | (N=3 915)2.03 (1.97;2.10) | <0.0001\* |
| Age at surgery (years), mean (95% CI) | (N=157)71.7 (70.6;72.8) | (N=2 236)72.3 (72.0;72.6) | 0.326 |
| Age at RAAA (years), mean(95% CI) | (N=39)71.6 (69.0;74.2) | (N=1 030)73.7 (73.2;74.2) | 0.102 |
| RAAA, n (%)Yes | (N=318)46 (14.5) | (N=3 915)1 187 (30.3) | <0.001\* |
| Level of education, n (%)PrimarySecondaryHigher education | (N=165)85 (51.2)59 (35.8)21 (12.7) | (N=2 303)1 185 (51.5)819 (35.5)299 (13.0) | 0.995 |
| Initial scan, mm (95% CI)Max. diameter | (N=304)56.8 (55.0;58.6) | (N=3 355)59.1 (58.6;59.8) | 0.030\* |
| Iliac aneurysm, n (%)Yes | (N=248)96 (38.7) | (N=3 126)924 (29.6) | 0.003\* |
| Smoking, n (%)CurrentFormerNever | (N=296)151 (51.0)111 (37.5)34 (11.5) | (N=2 743)1 543 (56.2)855 (31.2)345 (12.6) | 0.085 |
| Alcohol abuse1Yes | (N=142)15 (10.6) | (N=1 080)160 (14.8) | 0.174 |

RAAA=Ruptured Abdominal Aortic Aneurysm, maximum aortic diameter > 30 mm;

EVAR=Endovascular Aneurysm Repair; CI=Confidence Interval; Alcohol abuse =More than 2 standard drinks/day for women and more than 3 standard drinks/day for men.

N: number of patients with information regarding the specific variable

\*: p-value significant at 95% confidence level