**Supplement**

**1. Supplementary figures**

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**Fig. S1: Systolic and diastolic blood pressure by age.** Mean systolic BP (upper dashed line) and mean diastolic BP (lower dashed line) of all patients with documented systolic and diastolic BP-values (n=6970). Data is shown for different age groups. Error bars represent standard errors. Horizontal dashed lines indicate thresholds for diagnosing hypertension based on office blood pressure (syst. BP 140mmHg, diast. BP 90mmHg).



**Fig. S2: Questionnaire of the survey**

**2. Supplementary tables**

TABLE S1 Systolic OBP stratified by gender, age and setting

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gender** | **Age,**years | **Separate****room/compartment?** | **Mean,**mmHg | **SD** | **n** |
| Female | <65  | Yes | 136.4 | 18.2 | 1302 |
| No | 138.4 | 18.1 | 269 |
| Total | 136.7 | 18.2 | 1571 |
| >65 | Yes | 141.3 | 18.6 | 1482 |
| No | 142.0 | 17.7 | 362 |
| Total | 141.5 | 18.4 | 1844 |
| Total | Yes | 139.0 | 18.6 | 2784 |
| No | 140.5 | 17.9 | 631 |
| Total | 139.3 | 18.5 | 3415 |
| Male | <65 | Yes | 141.3 | 17.6 | 1338 |
| No | 142.5 | 18.1 | 293 |
| Total | 141.5 | 17.7 | 1631 |
| >65 | Yes | 140.2 | 18.2 | 1416 |
| No | 140.9 | 19.2 | 318 |
| Total | 140.3 | 18.4 | 1734 |
| Total | Yes | 140.7 | 17.9 | 2754 |
| No | 141.7 | 18.7 | 611 |
| Total | 140.9 | 18.1 | 3365 |
| Total | <65 | Yes | 138.9 | 18.1 | 2640 |
| No | 140.5 | 18.2 | 562 |
| Total | 139.2 | 18.1 | 3202 |
| >65 | Yes | 140.8 | 18.4 | 2898 |
| No | 141.5 | 18.4 | 680 |
| Total | 140.9 | 18.4 | 3578 |
| Total | Yes | 139.9 | 18.3 | 5538 |
| No | 141.1 | 18.3 | 1242 |
| Total | 140.1 | 18.3 | 6780 |

Systolic blood pressure stratified by age (>65 and <65 years), gender and location of BP measurement (separate room, no separate room).OBP office blood pressure.

TABLE S2 Diastolic OBP stratified by gender, age and setting

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gender** | **Age,**years | **Separate room/****compartment?** | **Mean,**mmHg | **SD** | **n** |
| Female | <65  | Yes | 83.2 | 11.0 | 1300 |
| No | 84.8 | 10.6 | 269 |
| Total | 83.5 | 10.9 | 1569 |
| >65  | Yes | 81.7 | 10.7 | 1479 |
| No | 81.8 | 10.5 | 361 |
| Total | 81.7 | 10.7 | 1840 |
| Total | Yes | 82.4 | 10.9 | 2779 |
| No | 83.1 | 10.6 | 630 |
| Total | 82.5 | 10.8 | 3409 |
| Male | <65  | Yes | 85.1 | 11.3 | 1338 |
| No | 85.2 | 10.5 | 293 |
| Total | 85.1 | 11.2 | 1631 |
| >65  | Yes | 81.0 | 10.5 | 1416 |
| No | 81.6 | 11.0 | 318 |
| Total | 81.1 | 10.6 | 1734 |
| Total | Yes | 83.0 | 11.1 | 2754 |
| No | 83.3 | 10.9 | 611 |
| Total | 83.1 | 11.0 | 3365 |
| Total | <65  | Yes | 84.2 | 11.2 | 2638 |
| No | 85.0 | 10.6 | 562 |
| Total | 84.3 | 11.1 | 3200 |
| >65  | Yes | 81.4 | 10.6 | 2895 |
| No | 81.7 | 10.7 | 679 |
| Total | 81.4 | 10.6 | 3574 |
| Total | Yes | 82.7 | 11.0 | 5533 |
| No | 83.2 | 10.8 | 1241 |
| Total | 82.8 | 10.9 | 6774 |

Diastolic blood pressure stratified by age (>65 and <65 years), gender and location of BP measurement (separate room, no separate room).OBP office blood pressure.

TABLE S3 Systolic OBP stratified by medical treatment and setting

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Medical treatment?** | **Separate room/****compartment?** | **Mean** | **SD** | **n** |
| Yes | Yes | 140.7 | 17.7 | 4413 |
| No | 141.5 | 17.7 | 1045 |
| Total | 140.9 | 17.7 | 5458 |
| No | Yes | 147.0 | 22.1 | 78 |
| No | 147.7 | 19.2 | 14 |
| Total | 147.1 | 21.6 | 92 |
| Total | Yes | 140.8 | 17.8 | 4491 |
| No | 141.6 | 17.8 | 1059 |
| Total | 141.0 | 17.8 | 5550 |

Systolic blood pressure stratified by medication and location of BP measurement (separate room, no separate room). OBP office blood pressure.

Table S4 Diastolic OBP stratified by medical treatment and setting

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Medical treatment?** | **Separate** **Room/compartment?** | **Mean** | **SD** | **n** |
| Yes | Yes | 82.8 | 10.9 | 4408 |
| No | 83.1 | 10.8 | 1044 |
| Total | 82.9 | 10.8 | 5452 |
| No | Yes | 85.0 | 10.4 | 78 |
| No | 89.0 | 9.7 | 14 |
| Total | 85.6 | 10.3 | 92 |
| Total | Yes | 82.8 | 10.9 | 4486 |
| No | 83.2 | 10.8 | 1058 |
| Total | 82.9 | 10.8 | 5544 |

Systolic blood pressure stratified by medication and location of BP measurement (separate room, no separate room). OBP office blood pressure.

TABLE S5 Three-Way ANOVA: Tests of Between-Subjects-Effects (age, gender, location)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Source** | **Typ III Sum of squares** | **df** | **Mean Square** | **F** | **Sig.** | **Partial eta squared** |
| Corrected model | 26444.763\* | 7 | 3777.823 | 11.426 | 0.000 | 0.012 |
| Intercept | 79142701.299 | 1 | 79142701.299 | 239373.314 | 0.000 | 0.972 |
| Gender | 2914.468 | 1 | 2914.468 | 8.815 | 0.003 | 0.001 |
| Age categories | 2142.953 | 1 | 2142.953 | 6.482 | 0.011 | 0.001 |
| Location | 1310,967 | 1 | 1310.967 | 3.965 | 0.046 | 0.001 |
| Gender \* Age cat. | 8099.194 | 1 | 8099.194 | 24.497 | 0.000 | 0.004 |
| Gender \* Location | 42.532 | 1 | 42.532 | 0.129 | 0.720 | 0.000 |
| Age \* Location | 206.667 | 1 | 206.667 | 0.625 | 0.429 | 0.000 |
| Gender \* Age cat. \* Location | 44.974 | 1 | 44.974 | 0.136 | 0.712 | 0.000 |
| Error | 2238989.653 | 6772 | 330.625 |   |   |   |
| Total | 135312522.000 | 6780 |   |   |   |   |
| Corrected Total | 2265434.415 | 6779 |   |   |   |   |

Results of a factorial (three-way) ANOVA comparing the main effects of gender, age categories and location (separate/non-separate room) as well as their interaction effects on the dependent variable systolic office blood pressure. \*R-Squared = .012 (adjusted R-Squared = .011)