

## *Supplementary Material*

**Supplementary Table 1.** Descriptive statistics of countries on women's side.

| Country                | Senior ranking | Youth Ranking | Licensed Players | Nr Gen | Avg nr youth | CV% nr youth | Avg nr senior |
|------------------------|----------------|---------------|------------------|--------|--------------|--------------|---------------|
| Belarus                | 475.1          | 29            | 2 362            | 12     | 9.3          | 33.3         | 1.4           |
| Belgium                | 585.7          | 160           | 21 632           | 12     | 12.1         | 16.0         | 2.6           |
| Bosnia and Herzegovina | 149.2          | 18            | 794              | 9      | 8.6          | 29.9         | 3.0           |
| Bulgaria               | 124.9          | 0             | 738              | 12     | 11.8         | 26.4         | 1.8           |
| Croatia                | 233.7          | 76            | 7 210            | 12     | 12.8         | 18.4         | 1.6           |
| Czech Republic         | 334            | 211           | 17 456           | 12     | 14.3         | 20.7         | 1.4           |
| Denmark                | 111.8          | 13            | 5 107            | 8      | 13.0         | 10.1         | 0.3           |
| Estonia                | 106.2          | 3             | 733              | 7      | 8.9          | 21.1         | 3.0           |
| Finland                | 97.5           | 9             | 900              | 12     | 11.8         | 16.8         | 2.0           |
| France                 | 640.8          | 414           | 332 555          | 12     | 15.1         | 17.3         | 1.4           |
| Germany                | 149.8          | 151           | 79 986           | 12     | 13.8         | 18.7         | 2.8           |
| Great Britain          | 333.5          | 3             | 9 491            | 12     | 13.7         | 25.6         | 2.3           |
| Greece                 | 368.0          | 10            | 41 979           | 12     | 12.5         | 23.3         | 1.0           |
| Hungary                | 257.9          | 247           | 10 460           | 12     | 13.9         | 28.7         | 1.9           |
| Ireland                | 91.9           | 5             | 5 336            | 6      | 15.2         | 31.6         | 2.7           |
| Israel                 | 147.6          | 20            | 4 291            | 12     | 12.0         | 15.5         | 1.0           |
| Italy                  | 345.4          | 315           | 49 279           | 12     | 14.8         | 16.9         | 1.9           |
| Latvia                 | 303.4          | 141           | 1 600            | 12     | 11.1         | 16.5         | 1.8           |
| Lithuania              | 233.1          | 103           | 2 337            | 12     | 12.3         | 17.8         | 2.3           |
| Netherlands            | 136.5          | 57            | 13 133           | 12     | 11.7         | 18.4         | 3.4           |
| Poland                 | 167.9          | 49            | 9 173            | 12     | 13.9         | 21.5         | 2.3           |
| Portugal               | 130.9          | 56            | 1 670            | 12     | 11.2         | 20.5         | 2.8           |
| Romania                | 138.1          | 3             | 7 575            | 12     | 11.8         | 18.9         | 1.8           |
| Russia                 | 400.9          | 288           | 3 985            | 12     | 15.6         | 13.0         | 1.6           |
| Serbia                 | 579.4          | 108           | 2 242            | 9      | 12.1         | 19.6         | 1.6           |
| Slovakia               | 275.2          | 17            | 2 278            | 12     | 12.4         | 25.6         | 2.5           |
| Slovenia               | 232.6          | 38            | 425              | 10     | 9.7          | 28.4         | 2.3           |
| Spain                  | 692.2          | 473           | 94 698           | 12     | 13.9         | 12.4         | 1.6           |
| Sweden                 | 315.0          | 22            | 10 500           | 12     | 14.4         | 17.1         | 2.8           |
| Switzerland            | 98.1           | 0             | 3 425            | 5      | 11.0         | 6.4          | 2.5           |
| Turkey                 | 598.7          | 67            | 9 525            | 12     | 11.8         | 16.4         | 2.5           |
| Ukraine                | 270.5          | 0             | 1 022            | 12     | 12.0         | 19.5         | 2.0           |

**Supplementary Table 2.** Descriptive statistics of countries on men's side.

| Country                | Senior ranking | Youth Ranking | Licensed Players | Nr Gen | Avg nr youth | CV% nr youth | Avg nr senior |
|------------------------|----------------|---------------|------------------|--------|--------------|--------------|---------------|
| Austria                | 172.6          | 0             | 13 920           | 10     | 14.5         | 13.5         | 2.3           |
| Belarus                | 195.8          | 0             | 4 930            | 9      | 12.8         | 12.2         | 1.0           |
| Belgium                | 281.9          | 0             | 61 809           | 12     | 15.6         | 11.1         | 2.8           |
| Bosnia and Herzegovina | 226.7          | 110           | 4 034            | 8      | 15.6         | 12.3         | 1.7           |
| Bulgaria               | 204.6          | 0             | 1 222            | 12     | 14.1         | 11.5         | 2.5           |
| Croatia                | 522.4          | 220           | 12 780           | 12     | 17.1         | 11.0         | 1.3           |
| Czech Republic         | 591.5          | 19            | 28 007           | 12     | 15.3         | 12.9         | 1.8           |
| Denmark                | 164.5          | 0             | 11 896           | 8      | 13.6         | 13.6         | 3.2           |
| Estonia                | 209.9          | 25            | 2 635            | 12     | 13.5         | 15.6         | 2.0           |
| Finland                | 319.4          | 75            | 540              | 12     | 15.3         | 16.3         | 1.4           |
| France                 | 656.5          | 367           | 546 632          | 12     | 19.9         | 16.2         | 2.6           |
| Germany                | 495.7          | 112           | 203 439          | 12     | 18.0         | 14.6         | 3.3           |
| Great Britain          | 242.7          | 23            | 21 450           | 12     | 17.8         | 11.2         | 2.0           |
| Greece                 | 647.4          | 158           | 189 336          | 12     | 14.9         | 20.9         | 1.4           |
| Hungary                | 262.2          | 0             | 26 360           | 12     | 17.1         | 14.2         | 1.8           |
| Iceland                | 218.2          | 0             | 4 766            | 5      | 11.2         | 29.2         | 2.0           |
| Ireland                | 90.0           | 0             | 11 692           | 6      | 17.0         | 13.9         | 0.0           |
| Israel                 | 245.7          | 33            | 22 359           | 12     | 16.2         | 9.8          | 1.6           |
| Italy                  | 577.9          | 202           | 109 862          | 12     | 18.8         | 15.5         | 2.4           |
| Latvia                 | 382.2          | 112           | 4 175            | 12     | 15.3         | 16.5         | 2.6           |
| Lithuania              | 635.2          | 339           | 8 396            | 12     | 18.4         | 11.2         | 1.9           |
| Luxembourg             | 110.9          | 0             | 2 530            | 10     | 12.4         | 12.1         | 3.0           |
| Montenegro             | 391.4          | 103           | 2 268            | 9      | 15.0         | 13.7         | 1.2           |
| Netherlands            | 231.2          | 8             | 29 348           | 12     | 17.1         | 13.8         | 2.6           |
| North Macedonia        | 187.6          | 7             | 2 239            | 8      | 13.9         | 9.0          | 1.8           |
| Norway                 | 104.2          | 0             | 7 195            | 5      | 13.0         | 22.4         | 0.0           |
| Poland                 | 567.6          | 4             | 16 786           | 12     | 17.3         | 20.0         | 1.9           |
| Portugal               | 153.0          | 0             | 3 203            | 12     | 14.1         | 14.0         | 2.4           |
| Romania                | 179.4          | 0             | 11 610           | 12     | 14.3         | 17.4         | 1.4           |
| Russia                 | 585.4          | 105           | 7 455            | 12     | 19.7         | 17.9         | 2.0           |
| Serbia                 | 661.3          | 309           | 16 766           | 9      | 16.7         | 17.5         | 2.8           |
| Slovakia               | 134.0          | 4             | 2 348            | 12     | 15.2         | 19.8         | 2.9           |
| Slovenia               | 496.4          | 67            | 2 116            | 12     | 15.1         | 14.0         | 2.3           |
| Spain                  | 722.9          | 378           | 276 273          | 12     | 16.7         | 10.7         | 1.8           |
| Sweden                 | 176.4          | 15            | 11 700           | 12     | 16.9         | 13.0         | 2.5           |
| Switzerland            | 151.5          | 0             | 9 360            | 9      | 15.3         | 25.7         | 2.6           |
| Turkey                 | 513.2          | 311           | 42 813           | 12     | 14.5         | 16.5         | 2.4           |
| Ukraine                | 353.0          | 15            | 3 136            | 12     | 15.5         | 10.8         | 2.5           |

