**ELECTRONIC SUPPLEMENTARY MATERIAL**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S1. Age-related Ris for stroke volume (ml): Females** | | | | | | | | | | | |
| **Age [years]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| **4** | 26.4 | 27.7 | 28.7 | 30.0 | 32.1 | 34.5 | 37.0 | 39.2 | 40.6 | 41.9 | 43.3 |
| **5** | 28.2 | 30.1 | 31.8 | 33.9 | 37.4 | 41.4 | 45.6 | 49.4 | 51.8 | 53.9 | 56.4 |
| **6** | 29.7 | 32.2 | 34.4 | 37.0 | 41.5 | 46.8 | 52.3 | 57.4 | 60.5 | 63.3 | 66.6 |
| **7** | 31.0 | 33.9 | 36.5 | 39.6 | 44.9 | 51.2 | 57.7 | 63.7 | 67.5 | 70.8 | 74.7 |
| **8** | 32.2 | 35.5 | 38.4 | 41.8 | 47.7 | 54.7 | 62.0 | 68.8 | 73.0 | 76.7 | 81.1 |
| **9** | 33.4 | 36.9 | 40.0 | 43.7 | 50.1 | 57.6 | 65.5 | 72.9 | 77.5 | 81.5 | 86.3 |
| **10** | 34.4 | 38.1 | 41.4 | 45.3 | 52.1 | 60.1 | 68.4 | 76.3 | 81.1 | 85.4 | 90.5 |
| **11** | 35.4 | 39.2 | 42.6 | 46.7 | 53.8 | 62.1 | 70.9 | 79.0 | 84.1 | 88.6 | 93.9 |
| **12** | 36.3 | 40.2 | 43.8 | 48.0 | 55.3 | 63.9 | 72.9 | 81.3 | 86.5 | 91.2 | 96.7 |
| **13** | 37.1 | 41.2 | 44.8 | 49.1 | 56.6 | 65.3 | 74.6 | 83.2 | 88.6 | 93.3 | 98.9 |
| **14** | 37.9 | 42.1 | 45.7 | 50.1 | 57.7 | 66.6 | 76.0 | 84.8 | 90.2 | 95.0 | 100.7 |
| **15** | 38.7 | 42.9 | 46.6 | 51.0 | 58.7 | 67.7 | 77.2 | 86.1 | 91.5 | 96.4 | 102.2 |
| **16** | 39.4 | 43.6 | 47.4 | 51.8 | 59.6 | 68.6 | 78.2 | 87.1 | 92.6 | 97.5 | 103.3 |
| **17** | 40.1 | 44.3 | 48.1 | 52.5 | 60.3 | 69.4 | 79.0 | 88.0 | 93.5 | 98.4 | 104.2 |
| **18** | 40.7 | 45.0 | 48.7 | 53.2 | 61.0 | 70.1 | 79.7 | 88.7 | 94.2 | 99.1 | 104.9 |
| **19** | 41.3 | 45.6 | 49.3 | 53.8 | 61.6 | 70.7 | 80.3 | 89.2 | 94.8 | 99.7 | 105.5 |
| **20** | 41.9 | 46.1 | 49.9 | 54.4 | 62.2 | 71.2 | 80.8 | 89.7 | 95.2 | 100.1 | 105.8 |
| **21** | 42.4 | 46.7 | 50.4 | 54.9 | 62.6 | 71.7 | 81.2 | 90.0 | 95.5 | 100.3 | 106.1 |
| **22** | 43.0 | 47.2 | 50.9 | 55.4 | 63.1 | 72.1 | 81.5 | 90.3 | 95.7 | 100.5 | 106.2 |
| **23** | 43.5 | 47.7 | 51.4 | 55.8 | 63.5 | 72.4 | 81.7 | 90.5 | 95.8 | 100.6 | 106.2 |
| **24** | 44.0 | 48.1 | 51.8 | 56.2 | 63.8 | 72.7 | 81.9 | 90.6 | 95.9 | 100.6 | 106.2 |
| **25** | 44.4 | 48.6 | 52.2 | 56.6 | 64.1 | 72.9 | 82.1 | 90.6 | 95.9 | 100.6 | 106.1 |
| **26** | 44.9 | 49.0 | 52.6 | 56.9 | 64.4 | 73.1 | 82.1 | 90.6 | 95.8 | 100.5 | 105.9 |
| **27** | 45.3 | 49.4 | 53.0 | 57.2 | 64.6 | 73.2 | 82.2 | 90.6 | 95.7 | 100.3 | 105.7 |
| **28** | 45.7 | 49.7 | 53.3 | 57.5 | 64.8 | 73.3 | 82.2 | 90.5 | 95.6 | 100.1 | 105.4 |
| **29** | 46.1 | 50.1 | 53.6 | 57.8 | 65.0 | 73.4 | 82.2 | 90.4 | 95.4 | 99.9 | 105.1 |
| **30** | 46.4 | 50.4 | 53.9 | 58.0 | 65.2 | 73.5 | 82.2 | 90.3 | 95.2 | 99.6 | 104.8 |
| **31** | 46.8 | 50.7 | 54.2 | 58.3 | 65.3 | 73.6 | 82.1 | 90.1 | 95.0 | 99.3 | 104.5 |
| **32** | 47.1 | 51.0 | 54.4 | 58.5 | 65.5 | 73.6 | 82.1 | 89.9 | 94.8 | 99.0 | 104.1 |
| **33** | 47.4 | 51.3 | 54.7 | 58.7 | 65.6 | 73.6 | 82.0 | 89.7 | 94.5 | 98.7 | 103.7 |
| **34** | 47.8 | 51.6 | 54.9 | 58.9 | 65.7 | 73.6 | 81.9 | 89.5 | 94.2 | 98.4 | 103.3 |
| **35** | 48.0 | 51.8 | 55.1 | 59.0 | 65.8 | 73.6 | 81.7 | 89.3 | 93.9 | 98.0 | 102.9 |
| **36** | 48.3 | 52.1 | 55.3 | 59.2 | 65.9 | 73.6 | 81.6 | 89.1 | 93.6 | 97.7 | 102.5 |
| **37** | 48.6 | 52.3 | 55.5 | 59.4 | 65.9 | 73.6 | 81.5 | 88.8 | 93.3 | 97.3 | 102.0 |
| **38** | 48.9 | 52.5 | 55.7 | 59.5 | 66.0 | 73.5 | 81.3 | 88.6 | 93.0 | 97.0 | 101.6 |
| **39** | 49.1 | 52.7 | 55.9 | 59.6 | 66.0 | 73.5 | 81.2 | 88.3 | 92.7 | 96.6 | 101.2 |
| **40** | 49.3 | 52.9 | 56.0 | 59.7 | 66.1 | 73.4 | 81.0 | 88.1 | 92.4 | 96.2 | 100.7 |
| **41** | 49.6 | 53.1 | 56.2 | 59.8 | 66.1 | 73.4 | 80.9 | 87.8 | 92.1 | 95.9 | 100.3 |
| **42** | 49.8 | 53.3 | 56.3 | 59.9 | 66.1 | 73.3 | 80.7 | 87.6 | 91.8 | 95.5 | 99.9 |
| **43** | 50.0 | 53.4 | 56.5 | 60.0 | 66.2 | 73.2 | 80.5 | 87.3 | 91.5 | 95.1 | 99.5 |
| **44** | 50.2 | 53.6 | 56.6 | 60.1 | 66.2 | 73.1 | 80.4 | 87.1 | 91.2 | 94.8 | 99.1 |
| **45** | 50.4 | 53.8 | 56.7 | 60.2 | 66.2 | 73.1 | 80.2 | 86.8 | 90.9 | 94.4 | 98.6 |
| **46** | 50.6 | 53.9 | 56.8 | 60.3 | 66.2 | 73.0 | 80.0 | 86.6 | 90.6 | 94.1 | 98.2 |
| **47** | 50.7 | 54.0 | 56.9 | 60.3 | 66.2 | 72.9 | 79.9 | 86.3 | 90.3 | 93.7 | 97.8 |
| **48** | 50.9 | 54.2 | 57.0 | 60.4 | 66.2 | 72.8 | 79.7 | 86.1 | 90.0 | 93.4 | 97.5 |
| **49** | 51.1 | 54.3 | 57.1 | 60.5 | 66.2 | 72.7 | 79.6 | 85.8 | 89.7 | 93.1 | 97.1 |
| **50** | 51.2 | 54.4 | 57.2 | 60.5 | 66.2 | 72.7 | 79.4 | 85.6 | 89.4 | 92.8 | 96.7 |
| **51** | 51.3 | 54.5 | 57.3 | 60.6 | 66.1 | 72.6 | 79.2 | 85.4 | 89.1 | 92.4 | 96.3 |
| **52** | 51.5 | 54.6 | 57.4 | 60.6 | 66.1 | 72.5 | 79.1 | 85.1 | 88.9 | 92.1 | 96.0 |
| **53** | 51.6 | 54.7 | 57.4 | 60.6 | 66.1 | 72.4 | 78.9 | 84.9 | 88.6 | 91.8 | 95.7 |
| **54** | 51.7 | 54.8 | 57.5 | 60.7 | 66.1 | 72.3 | 78.8 | 84.7 | 88.3 | 91.5 | 95.3 |
| **55** | 51.8 | 54.9 | 57.6 | 60.7 | 66.1 | 72.2 | 78.6 | 84.5 | 88.1 | 91.3 | 95.0 |
| **56** | 51.9 | 55.0 | 57.6 | 60.7 | 66.0 | 72.2 | 78.5 | 84.3 | 87.9 | 91.0 | 94.7 |
| **57** | 52.0 | 55.0 | 57.7 | 60.7 | 66.0 | 72.1 | 78.3 | 84.1 | 87.6 | 90.7 | 94.4 |
| **58** | 52.1 | 55.1 | 57.7 | 60.8 | 66.0 | 72.0 | 78.2 | 83.9 | 87.4 | 90.5 | 94.1 |
| **59** | 52.2 | 55.2 | 57.7 | 60.8 | 66.0 | 71.9 | 78.1 | 83.7 | 87.2 | 90.2 | 93.8 |
| **60** | 52.3 | 55.2 | 57.8 | 60.8 | 65.9 | 71.8 | 77.9 | 83.6 | 87.0 | 90.0 | 93.6 |
| **61** | 52.3 | 55.3 | 57.8 | 60.8 | 65.9 | 71.8 | 77.8 | 83.4 | 86.8 | 89.8 | 93.3 |
| **62** | 52.4 | 55.3 | 57.8 | 60.8 | 65.9 | 71.7 | 77.7 | 83.2 | 86.6 | 89.6 | 93.1 |
| **63** | 52.5 | 55.3 | 57.9 | 60.8 | 65.8 | 71.6 | 77.6 | 83.1 | 86.4 | 89.4 | 92.8 |
| **64** | 52.5 | 55.4 | 57.9 | 60.8 | 65.8 | 71.6 | 77.5 | 82.9 | 86.2 | 89.2 | 92.6 |
| **65** | 52.6 | 55.4 | 57.9 | 60.8 | 65.8 | 71.5 | 77.4 | 82.8 | 86.1 | 89.0 | 92.4 |
| **66** | 52.6 | 55.4 | 57.9 | 60.8 | 65.8 | 71.4 | 77.3 | 82.6 | 85.9 | 88.8 | 92.2 |
| **67** | 52.7 | 55.5 | 57.9 | 60.8 | 65.7 | 71.4 | 77.2 | 82.5 | 85.8 | 88.7 | 92.0 |
| **68** | 52.7 | 55.5 | 57.9 | 60.8 | 65.7 | 71.3 | 77.1 | 82.4 | 85.6 | 88.5 | 91.9 |
| **69** | 52.7 | 55.5 | 57.9 | 60.8 | 65.7 | 71.3 | 77.0 | 82.3 | 85.5 | 88.4 | 91.7 |
| **70** | 52.8 | 55.5 | 57.9 | 60.8 | 65.6 | 71.2 | 76.9 | 82.2 | 85.4 | 88.2 | 91.6 |
| **71** | 52.8 | 55.5 | 57.9 | 60.8 | 65.6 | 71.1 | 76.8 | 82.1 | 85.3 | 88.1 | 91.4 |
| **72** | 52.8 | 55.5 | 57.9 | 60.8 | 65.6 | 71.1 | 76.8 | 82.0 | 85.2 | 88.0 | 91.3 |
| **73** | 52.8 | 55.5 | 57.9 | 60.8 | 65.6 | 71.1 | 76.7 | 81.9 | 85.1 | 87.9 | 91.2 |
| **74** | 52.8 | 55.5 | 57.9 | 60.7 | 65.5 | 71.0 | 76.7 | 81.8 | 85.0 | 87.8 | 91.1 |
| **75** | 52.8 | 55.5 | 57.9 | 60.7 | 65.5 | 71.0 | 76.6 | 81.8 | 84.9 | 87.7 | 91.0 |
| **76** | 52.8 | 55.5 | 57.9 | 60.7 | 65.5 | 70.9 | 76.6 | 81.7 | 84.9 | 87.6 | 90.9 |
| **77** | 52.8 | 55.5 | 57.9 | 60.7 | 65.4 | 70.9 | 76.5 | 81.7 | 84.8 | 87.6 | 90.8 |
| **78** | 52.8 | 55.5 | 57.9 | 60.7 | 65.4 | 70.9 | 76.5 | 81.6 | 84.8 | 87.5 | 90.8 |
| **79** | 52.8 | 55.5 | 57.9 | 60.6 | 65.4 | 70.8 | 76.4 | 81.6 | 84.7 | 87.5 | 90.7 |
| **80** | 52.8 | 55.5 | 57.8 | 60.6 | 65.4 | 70.8 | 76.4 | 81.6 | 84.7 | 87.5 | 90.7 |
| **81** | 52.7 | 55.4 | 57.8 | 60.6 | 65.4 | 70.8 | 76.4 | 81.5 | 84.7 | 87.4 | 90.7 |
| **82** | 52.7 | 55.4 | 57.8 | 60.6 | 65.3 | 70.8 | 76.4 | 81.5 | 84.7 | 87.4 | 90.7 |
| **83** | 52.7 | 55.4 | 57.8 | 60.6 | 65.3 | 70.8 | 76.4 | 81.5 | 84.7 | 87.4 | 90.7 |
| **84** | 52.6 | 55.4 | 57.7 | 60.5 | 65.3 | 70.7 | 76.4 | 81.5 | 84.7 | 87.4 | 90.7 |
| **85** | 52.6 | 55.3 | 57.7 | 60.5 | 65.3 | 70.7 | 76.4 | 81.5 | 84.7 | 87.5 | 90.7 |
| **86** | 52.6 | 55.3 | 57.7 | 60.5 | 65.3 | 70.7 | 76.4 | 81.5 | 84.7 | 87.5 | 90.8 |
| **87** | 52.5 | 55.3 | 57.7 | 60.5 | 65.2 | 70.7 | 76.4 | 81.6 | 84.7 | 87.5 | 90.8 |
| **88** | 52.5 | 55.2 | 57.6 | 60.4 | 65.2 | 70.7 | 76.4 | 81.6 | 84.8 | 87.6 | 90.9 |

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| **Table S2. Age-related Ris for stroke volume (ml): Males** | | | | | | | | | | | |
| **Age [years]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| **5** | 23.8 | 27.0 | 29.8 | 32.9 | 38.0 | 43.6 | 49.1 | 54.0 | 56.9 | 59.4 | 62.3 |
| **6** | 27.9 | 31.8 | 35.1 | 38.9 | 45.1 | 51.9 | 58.5 | 64.4 | 67.9 | 70.9 | 74.4 |
| **7** | 31.4 | 35.8 | 39.5 | 43.7 | 50.6 | 58.1 | 65.6 | 72.2 | 76.1 | 79.4 | 83.3 |
| **8** | 34.4 | 39.1 | 43.0 | 47.6 | 55.0 | 63.1 | 71.1 | 78.1 | 82.3 | 85.9 | 90.1 |
| **9** | 37.0 | 41.9 | 46.1 | 50.8 | 58.6 | 67.1 | 75.5 | 82.9 | 87.3 | 91.1 | 95.4 |
| **10** | 39.3 | 44.4 | 48.7 | 53.5 | 61.6 | 70.4 | 79.0 | 86.6 | 91.2 | 95.1 | 99.6 |
| **11** | 41.4 | 46.5 | 50.9 | 55.9 | 64.1 | 73.1 | 81.9 | 89.7 | 94.4 | 98.4 | 103.0 |
| **12** | 43.2 | 48.5 | 52.9 | 57.9 | 66.2 | 75.3 | 84.3 | 92.2 | 96.9 | 101.0 | 105.7 |
| **13** | 44.9 | 50.2 | 54.6 | 59.7 | 68.1 | 77.2 | 86.3 | 94.3 | 99.0 | 103.1 | 107.9 |
| **14** | 46.4 | 51.7 | 56.2 | 61.3 | 69.7 | 78.9 | 87.9 | 96.0 | 100.7 | 104.9 | 109.6 |
| **15** | 47.8 | 53.1 | 57.5 | 62.6 | 71.0 | 80.2 | 89.3 | 97.3 | 102.1 | 106.2 | 111.0 |
| **16** | 49.0 | 54.3 | 58.7 | 63.8 | 72.2 | 81.4 | 90.5 | 98.5 | 103.3 | 107.4 | 112.1 |
| **17** | 50.2 | 55.4 | 59.8 | 64.9 | 73.2 | 82.4 | 91.4 | 99.4 | 104.2 | 108.3 | 113.0 |
| **18** | 51.2 | 56.4 | 60.8 | 65.9 | 74.1 | 83.2 | 92.2 | 100.2 | 104.9 | 109.0 | 113.7 |
| **19** | 52.2 | 57.3 | 61.7 | 66.7 | 74.9 | 84.0 | 92.9 | 100.8 | 105.5 | 109.5 | 114.2 |
| **20** | 53.0 | 58.1 | 62.5 | 67.4 | 75.6 | 84.6 | 93.4 | 101.2 | 105.9 | 109.9 | 114.6 |
| **21** | 53.8 | 58.9 | 63.2 | 68.1 | 76.2 | 85.1 | 93.8 | 101.6 | 106.2 | 110.2 | 114.8 |
| **22** | 54.6 | 59.6 | 63.8 | 68.7 | 76.7 | 85.5 | 94.2 | 101.9 | 106.5 | 110.4 | 115.0 |
| **23** | 55.2 | 60.2 | 64.4 | 69.2 | 77.1 | 85.8 | 94.4 | 102.1 | 106.6 | 110.5 | 115.0 |
| **24** | 55.8 | 60.7 | 64.9 | 69.7 | 77.5 | 86.1 | 94.6 | 102.2 | 106.7 | 110.5 | 115.0 |
| **25** | 56.4 | 61.2 | 65.3 | 70.0 | 77.8 | 86.3 | 94.8 | 102.2 | 106.7 | 110.5 | 114.9 |
| **26** | 56.9 | 61.7 | 65.7 | 70.4 | 78.1 | 86.5 | 94.8 | 102.2 | 106.6 | 110.4 | 114.8 |
| **27** | 57.4 | 62.1 | 66.1 | 70.7 | 78.3 | 86.6 | 94.9 | 102.2 | 106.5 | 110.3 | 114.6 |
| **28** | 57.8 | 62.4 | 66.4 | 70.9 | 78.4 | 86.7 | 94.8 | 102.1 | 106.4 | 110.1 | 114.4 |
| **29** | 58.1 | 62.7 | 66.7 | 71.2 | 78.6 | 86.7 | 94.8 | 101.9 | 106.2 | 109.9 | 114.1 |
| **30** | 58.5 | 63.0 | 66.9 | 71.3 | 78.7 | 86.7 | 94.7 | 101.8 | 106.0 | 109.6 | 113.8 |
| **31** | 58.7 | 63.2 | 67.1 | 71.5 | 78.7 | 86.7 | 94.6 | 101.6 | 105.7 | 109.3 | 113.5 |
| **32** | 59.0 | 63.5 | 67.2 | 71.6 | 78.8 | 86.6 | 94.4 | 101.4 | 105.5 | 109.0 | 113.2 |
| **33** | 59.2 | 63.6 | 67.4 | 71.7 | 78.8 | 86.6 | 94.3 | 101.1 | 105.2 | 108.7 | 112.8 |
| **34** | 59.4 | 63.8 | 67.5 | 71.7 | 78.7 | 86.4 | 94.1 | 100.9 | 104.9 | 108.4 | 112.4 |
| **35** | 59.6 | 63.9 | 67.5 | 71.7 | 78.7 | 86.3 | 93.9 | 100.6 | 104.6 | 108.0 | 112.0 |
| **36** | 59.7 | 63.9 | 67.6 | 71.7 | 78.6 | 86.2 | 93.6 | 100.3 | 104.2 | 107.7 | 111.6 |
| **37** | 59.8 | 64.0 | 67.6 | 71.7 | 78.5 | 86.0 | 93.4 | 100.0 | 103.9 | 107.3 | 111.2 |
| **38** | 59.9 | 64.0 | 67.6 | 71.7 | 78.4 | 85.8 | 93.2 | 99.7 | 103.6 | 106.9 | 110.8 |
| **39** | 59.9 | 64.0 | 67.6 | 71.6 | 78.3 | 85.6 | 92.9 | 99.4 | 103.2 | 106.5 | 110.4 |
| **40** | 59.9 | 64.0 | 67.5 | 71.5 | 78.1 | 85.4 | 92.6 | 99.0 | 102.8 | 106.1 | 109.9 |
| **41** | 59.9 | 64.0 | 67.5 | 71.4 | 78.0 | 85.2 | 92.3 | 98.7 | 102.5 | 105.7 | 109.5 |
| **42** | 59.9 | 63.9 | 67.4 | 71.3 | 77.8 | 85.0 | 92.0 | 98.3 | 102.1 | 105.3 | 109.1 |
| **43** | 59.9 | 63.9 | 67.3 | 71.2 | 77.6 | 84.7 | 91.7 | 98.0 | 101.7 | 104.9 | 108.6 |
| **44** | 59.8 | 63.8 | 67.1 | 71.0 | 77.4 | 84.5 | 91.4 | 97.6 | 101.3 | 104.5 | 108.2 |
| **45** | 59.7 | 63.6 | 67.0 | 70.8 | 77.2 | 84.2 | 91.1 | 97.3 | 101.0 | 104.1 | 107.8 |
| **46** | 59.6 | 63.5 | 66.8 | 70.7 | 77.0 | 83.9 | 90.8 | 96.9 | 100.6 | 103.7 | 107.4 |
| **47** | 59.5 | 63.4 | 66.7 | 70.5 | 76.7 | 83.7 | 90.5 | 96.6 | 100.2 | 103.3 | 107.0 |
| **48** | 59.3 | 63.2 | 66.5 | 70.3 | 76.5 | 83.4 | 90.2 | 96.2 | 99.8 | 102.9 | 106.5 |
| **49** | 59.2 | 63.0 | 66.3 | 70.0 | 76.3 | 83.1 | 89.9 | 95.9 | 99.5 | 102.6 | 106.1 |
| **50** | 59.0 | 62.8 | 66.1 | 69.8 | 76.0 | 82.8 | 89.5 | 95.5 | 99.1 | 102.2 | 105.7 |
| **51** | 58.8 | 62.6 | 65.9 | 69.6 | 75.7 | 82.5 | 89.2 | 95.2 | 98.7 | 101.8 | 105.3 |
| **52** | 58.6 | 62.4 | 65.6 | 69.3 | 75.4 | 82.2 | 88.9 | 94.8 | 98.4 | 101.4 | 104.9 |
| **53** | 58.4 | 62.1 | 65.4 | 69.1 | 75.2 | 81.9 | 88.6 | 94.5 | 98.0 | 101.0 | 104.6 |
| **54** | 58.1 | 61.9 | 65.1 | 68.8 | 74.9 | 81.6 | 88.2 | 94.1 | 97.6 | 100.7 | 104.2 |
| **55** | 57.9 | 61.6 | 64.8 | 68.5 | 74.6 | 81.3 | 87.9 | 93.8 | 97.3 | 100.3 | 103.8 |
| **56** | 57.6 | 61.3 | 64.5 | 68.2 | 74.3 | 81.0 | 87.6 | 93.4 | 96.9 | 100.0 | 103.5 |
| **57** | 57.3 | 61.0 | 64.2 | 67.9 | 74.0 | 80.6 | 87.2 | 93.1 | 96.6 | 99.6 | 103.1 |
| **58** | 57.0 | 60.7 | 63.9 | 67.6 | 73.7 | 80.3 | 86.9 | 92.8 | 96.3 | 99.3 | 102.8 |
| **59** | 56.7 | 60.4 | 63.6 | 67.3 | 73.3 | 80.0 | 86.6 | 92.4 | 95.9 | 98.9 | 102.4 |
| **60** | 56.4 | 60.1 | 63.3 | 67.0 | 73.0 | 79.7 | 86.3 | 92.1 | 95.6 | 98.6 | 102.1 |
| **61** | 56.0 | 59.8 | 63.0 | 66.6 | 72.7 | 79.3 | 85.9 | 91.8 | 95.3 | 98.3 | 101.8 |
| **62** | 55.7 | 59.4 | 62.6 | 66.3 | 72.3 | 79.0 | 85.6 | 91.5 | 95.0 | 98.0 | 101.5 |
| **63** | 55.3 | 59.1 | 62.3 | 65.9 | 72.0 | 78.7 | 85.3 | 91.2 | 94.7 | 97.7 | 101.2 |
| **64** | 54.9 | 58.7 | 61.9 | 65.6 | 71.7 | 78.4 | 85.0 | 90.9 | 94.4 | 97.4 | 100.9 |
| **65** | 54.5 | 58.3 | 61.5 | 65.2 | 71.3 | 78.0 | 84.7 | 90.6 | 94.1 | 97.1 | 100.6 |
| **66** | 54.1 | 57.9 | 61.2 | 64.9 | 71.0 | 77.7 | 84.4 | 90.3 | 93.8 | 96.8 | 100.4 |
| **67** | 53.7 | 57.5 | 60.8 | 64.5 | 70.6 | 77.4 | 84.1 | 90.0 | 93.5 | 96.6 | 100.1 |
| **68** | 53.3 | 57.1 | 60.4 | 64.1 | 70.3 | 77.0 | 83.7 | 89.7 | 93.2 | 96.3 | 99.8 |
| **69** | 52.9 | 56.7 | 60.0 | 63.7 | 69.9 | 76.7 | 83.4 | 89.4 | 93.0 | 96.1 | 99.6 |
| **70** | 52.4 | 56.3 | 59.6 | 63.3 | 69.6 | 76.4 | 83.1 | 89.2 | 92.7 | 95.8 | 99.4 |
| **71** | 52.0 | 55.9 | 59.2 | 62.9 | 69.2 | 76.1 | 82.9 | 88.9 | 92.5 | 95.6 | 99.2 |
| **72** | 51.5 | 55.4 | 58.7 | 62.5 | 68.8 | 75.7 | 82.6 | 88.6 | 92.2 | 95.3 | 99.0 |
| **73** | 51.1 | 55.0 | 58.3 | 62.1 | 68.5 | 75.4 | 82.3 | 88.4 | 92.0 | 95.1 | 98.8 |
| **74** | 50.6 | 54.5 | 57.9 | 61.7 | 68.1 | 75.1 | 82.0 | 88.1 | 91.8 | 94.9 | 98.6 |
| **75** | 50.1 | 54.1 | 57.4 | 61.3 | 67.7 | 74.7 | 81.7 | 87.9 | 91.5 | 94.7 | 98.4 |
| **76** | 49.6 | 53.6 | 57.0 | 60.9 | 67.3 | 74.4 | 81.4 | 87.6 | 91.3 | 94.5 | 98.2 |
| **77** | 49.1 | 53.1 | 56.5 | 60.5 | 67.0 | 74.1 | 81.1 | 87.4 | 91.1 | 94.3 | 98.1 |
| **78** | 48.5 | 52.6 | 56.1 | 60.0 | 66.6 | 73.8 | 80.9 | 87.2 | 90.9 | 94.2 | 97.9 |
| **79** | 48.0 | 52.1 | 55.6 | 59.6 | 66.2 | 73.4 | 80.6 | 87.0 | 90.7 | 94.0 | 97.8 |
| **80** | 47.5 | 51.6 | 55.1 | 59.2 | 65.8 | 73.1 | 80.3 | 86.7 | 90.5 | 93.8 | 97.6 |
| **81** | 46.9 | 51.1 | 54.7 | 58.7 | 65.4 | 72.8 | 80.1 | 86.5 | 90.4 | 93.7 | 97.5 |
| **82** | 46.4 | 50.6 | 54.2 | 58.3 | 65.0 | 72.5 | 79.8 | 86.3 | 90.2 | 93.5 | 97.4 |
| **83** | 45.8 | 50.1 | 53.7 | 57.8 | 64.7 | 72.2 | 79.6 | 86.1 | 90.0 | 93.4 | 97.3 |
| **84** | 45.2 | 49.5 | 53.2 | 57.4 | 64.3 | 71.8 | 79.3 | 85.9 | 89.9 | 93.3 | 97.2 |
| **85** | 44.6 | 49.0 | 52.7 | 56.9 | 63.9 | 71.5 | 79.1 | 85.8 | 89.7 | 93.2 | 97.1 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S3. Heart rate-related Ris for stroke volume (ml): Females** | | | | | | | | | | | |
| **Heart rate [bpm]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 41 | 73.1 | 77.9 | 82.1 | 87.0 | 95.5 | 105.2 | 115.3 | 124.6 | 130.4 | 135.4 | 141.3 |
| 42 | 71.9 | 76.6 | 80.7 | 85.6 | 94.0 | 103.6 | 113.6 | 122.8 | 128.5 | 133.5 | 139.3 |
| 43 | 70.7 | 75.3 | 79.4 | 84.3 | 92.5 | 102.0 | 111.9 | 121.0 | 126.6 | 131.6 | 137.4 |
| 44 | 69.5 | 74.1 | 78.2 | 82.9 | 91.1 | 100.5 | 110.3 | 119.3 | 124.8 | 129.7 | 135.5 |
| 45 | 68.4 | 72.9 | 76.9 | 81.6 | 89.7 | 99.0 | 108.7 | 117.6 | 123.1 | 127.9 | 133.6 |
| 46 | 67.2 | 71.7 | 75.7 | 80.4 | 88.3 | 97.6 | 107.1 | 115.9 | 121.3 | 126.1 | 131.7 |
| 47 | 66.2 | 70.6 | 74.5 | 79.1 | 87.0 | 96.1 | 105.6 | 114.3 | 119.6 | 124.3 | 129.9 |
| 48 | 65.1 | 69.5 | 73.4 | 77.9 | 85.7 | 94.7 | 104.0 | 112.7 | 118.0 | 122.6 | 128.1 |
| 49 | 64.1 | 68.4 | 72.2 | 76.7 | 84.4 | 93.3 | 102.6 | 111.1 | 116.3 | 120.9 | 126.4 |
| 50 | 63.1 | 67.4 | 71.1 | 75.6 | 83.2 | 92.0 | 101.1 | 109.5 | 114.7 | 119.3 | 124.7 |
| 51 | 62.1 | 66.3 | 70.0 | 74.4 | 82.0 | 90.7 | 99.7 | 108.0 | 113.1 | 117.6 | 123.0 |
| 52 | 61.1 | 65.3 | 69.0 | 73.3 | 80.8 | 89.4 | 98.3 | 106.5 | 111.6 | 116.0 | 121.3 |
| 53 | 60.2 | 64.3 | 67.9 | 72.2 | 79.6 | 88.1 | 96.9 | 105.1 | 110.1 | 114.5 | 119.7 |
| 54 | 59.2 | 63.3 | 66.9 | 71.2 | 78.4 | 86.8 | 95.6 | 103.6 | 108.6 | 112.9 | 118.1 |
| 55 | 58.3 | 62.4 | 65.9 | 70.1 | 77.3 | 85.6 | 94.2 | 102.2 | 107.1 | 111.4 | 116.5 |
| 56 | 57.5 | 61.4 | 65.0 | 69.1 | 76.2 | 84.4 | 92.9 | 100.8 | 105.6 | 109.9 | 114.9 |
| 57 | 56.6 | 60.5 | 64.0 | 68.1 | 75.1 | 83.2 | 91.6 | 99.4 | 104.2 | 108.4 | 113.4 |
| 58 | 55.7 | 59.6 | 63.1 | 67.1 | 74.0 | 82.1 | 90.4 | 98.1 | 102.8 | 107.0 | 111.9 |
| 59 | 54.9 | 58.8 | 62.1 | 66.1 | 73.0 | 80.9 | 89.1 | 96.7 | 101.4 | 105.5 | 110.4 |
| 60 | 54.1 | 57.9 | 61.2 | 65.2 | 72.0 | 79.8 | 87.9 | 95.4 | 100.0 | 104.1 | 108.9 |
| 61 | 53.3 | 57.0 | 60.4 | 64.2 | 70.9 | 78.7 | 86.7 | 94.1 | 98.7 | 102.7 | 107.5 |
| 62 | 52.5 | 56.2 | 59.5 | 63.3 | 69.9 | 77.6 | 85.5 | 92.9 | 97.4 | 101.3 | 106.0 |
| 63 | 51.7 | 55.4 | 58.6 | 62.4 | 69.0 | 76.5 | 84.4 | 91.6 | 96.1 | 100.0 | 104.6 |
| 64 | 51.0 | 54.6 | 57.8 | 61.5 | 68.0 | 75.5 | 83.2 | 90.4 | 94.8 | 98.7 | 103.2 |
| 65 | 50.2 | 53.8 | 57.0 | 60.7 | 67.0 | 74.4 | 82.1 | 89.2 | 93.5 | 97.3 | 101.9 |
| 66 | 49.5 | 53.0 | 56.1 | 59.8 | 66.1 | 73.4 | 81.0 | 88.0 | 92.3 | 96.0 | 100.5 |
| 67 | 48.8 | 52.3 | 55.3 | 59.0 | 65.2 | 72.4 | 79.8 | 86.8 | 91.0 | 94.8 | 99.2 |
| 68 | 48.1 | 51.5 | 54.6 | 58.1 | 64.3 | 71.4 | 78.8 | 85.6 | 89.8 | 93.5 | 97.9 |
| 69 | 47.4 | 50.8 | 53.8 | 57.3 | 63.4 | 70.4 | 77.7 | 84.4 | 88.6 | 92.2 | 96.6 |
| 70 | 46.7 | 50.1 | 53.0 | 56.5 | 62.5 | 69.4 | 76.6 | 83.3 | 87.4 | 91.0 | 95.3 |
| 71 | 46.0 | 49.3 | 52.3 | 55.7 | 61.6 | 68.5 | 75.6 | 82.2 | 86.2 | 89.8 | 94.0 |
| 72 | 45.4 | 48.6 | 51.5 | 54.9 | 60.8 | 67.5 | 74.6 | 81.1 | 85.1 | 88.6 | 92.7 |
| 73 | 44.7 | 48.0 | 50.8 | 54.2 | 59.9 | 66.6 | 73.6 | 80.0 | 83.9 | 87.4 | 91.5 |
| 74 | 44.1 | 47.3 | 50.1 | 53.4 | 59.1 | 65.7 | 72.6 | 78.9 | 82.8 | 86.2 | 90.3 |
| 75 | 43.5 | 46.6 | 49.4 | 52.7 | 58.3 | 64.8 | 71.6 | 77.8 | 81.7 | 85.1 | 89.1 |
| 76 | 42.8 | 46.0 | 48.7 | 51.9 | 57.5 | 63.9 | 70.6 | 76.8 | 80.6 | 83.9 | 87.9 |
| 77 | 42.2 | 45.3 | 48.0 | 51.2 | 56.7 | 63.0 | 69.6 | 75.7 | 79.5 | 82.8 | 86.7 |
| 78 | 41.6 | 44.7 | 47.3 | 50.5 | 55.9 | 62.2 | 68.7 | 74.7 | 78.4 | 81.7 | 85.5 |
| 79 | 41.0 | 44.0 | 46.7 | 49.8 | 55.1 | 61.3 | 67.7 | 73.7 | 77.3 | 80.6 | 84.4 |
| 80 | 40.5 | 43.4 | 46.0 | 49.1 | 54.4 | 60.5 | 66.8 | 72.7 | 76.3 | 79.5 | 83.2 |
| 81 | 39.9 | 42.8 | 45.4 | 48.4 | 53.6 | 59.6 | 65.9 | 71.7 | 75.2 | 78.4 | 82.1 |
| 82 | 39.3 | 42.2 | 44.7 | 47.7 | 52.9 | 58.8 | 65.0 | 70.7 | 74.2 | 77.3 | 81.0 |
| 83 | 38.8 | 41.6 | 44.1 | 47.1 | 52.1 | 58.0 | 64.1 | 69.7 | 73.2 | 76.3 | 79.9 |
| 84 | 38.2 | 41.0 | 43.5 | 46.4 | 51.4 | 57.2 | 63.2 | 68.8 | 72.2 | 75.2 | 78.8 |
| 85 | 37.7 | 40.4 | 42.9 | 45.8 | 50.7 | 56.4 | 62.3 | 67.8 | 71.2 | 74.2 | 77.7 |
| 86 | 37.2 | 39.9 | 42.3 | 45.1 | 50.0 | 55.6 | 61.5 | 66.9 | 70.2 | 73.2 | 76.6 |
| 87 | 36.6 | 39.3 | 41.7 | 44.5 | 49.3 | 54.8 | 60.6 | 66.0 | 69.2 | 72.1 | 75.6 |
| 88 | 36.1 | 38.8 | 41.1 | 43.9 | 48.6 | 54.1 | 59.8 | 65.0 | 68.3 | 71.1 | 74.5 |
| 89 | 35.6 | 38.2 | 40.5 | 43.2 | 47.9 | 53.3 | 58.9 | 64.1 | 67.3 | 70.1 | 73.5 |
| 90 | 35.1 | 37.7 | 40.0 | 42.6 | 47.2 | 52.6 | 58.1 | 63.2 | 66.4 | 69.2 | 72.4 |
| 91 | 34.6 | 37.1 | 39.4 | 42.0 | 46.6 | 51.8 | 57.3 | 62.3 | 65.5 | 68.2 | 71.4 |
| 92 | 34.1 | 36.6 | 38.8 | 41.4 | 45.9 | 51.1 | 56.5 | 61.5 | 64.5 | 67.2 | 70.4 |
| 93 | 33.6 | 36.1 | 38.3 | 40.9 | 45.3 | 50.4 | 55.7 | 60.6 | 63.6 | 66.3 | 69.4 |
| 94 | 33.2 | 35.6 | 37.7 | 40.3 | 44.6 | 49.7 | 54.9 | 59.7 | 62.7 | 65.3 | 68.4 |
| 95 | 32.7 | 35.1 | 37.2 | 39.7 | 44.0 | 49.0 | 54.1 | 58.9 | 61.8 | 64.4 | 67.5 |
| 96 | 32.2 | 34.6 | 36.7 | 39.1 | 43.4 | 48.3 | 53.3 | 58.0 | 60.9 | 63.5 | 66.5 |
| 97 | 31.8 | 34.1 | 36.2 | 38.6 | 42.7 | 47.6 | 52.6 | 57.2 | 60.1 | 62.6 | 65.5 |
| 98 | 31.3 | 33.6 | 35.6 | 38.0 | 42.1 | 46.9 | 51.8 | 56.4 | 59.2 | 61.7 | 64.6 |
| 99 | 30.9 | 33.1 | 35.1 | 37.5 | 41.5 | 46.2 | 51.1 | 55.6 | 58.3 | 60.8 | 63.7 |
| 100 | 30.4 | 32.7 | 34.6 | 36.9 | 40.9 | 45.5 | 50.3 | 54.8 | 57.5 | 59.9 | 62.7 |
| 101 | 30.0 | 32.2 | 34.1 | 36.4 | 40.3 | 44.9 | 49.6 | 54.0 | 56.6 | 59.0 | 61.8 |
| 102 | 29.6 | 31.7 | 33.6 | 35.9 | 39.7 | 44.2 | 48.9 | 53.2 | 55.8 | 58.1 | 60.9 |
| 103 | 29.1 | 31.3 | 33.2 | 35.4 | 39.2 | 43.6 | 48.1 | 52.4 | 55.0 | 57.3 | 60.0 |
| 104 | 28.7 | 30.8 | 32.7 | 34.9 | 38.6 | 42.9 | 47.4 | 51.6 | 54.2 | 56.4 | 59.1 |
| 105 | 28.3 | 30.4 | 32.2 | 34.3 | 38.0 | 42.3 | 46.7 | 50.8 | 53.4 | 55.6 | 58.2 |
| 106 | 27.9 | 29.9 | 31.7 | 33.8 | 37.5 | 41.7 | 46.0 | 50.1 | 52.6 | 54.7 | 57.3 |
| 107 | 27.5 | 29.5 | 31.3 | 33.3 | 36.9 | 41.1 | 45.3 | 49.3 | 51.8 | 53.9 | 56.5 |
| 108 | 27.1 | 29.1 | 30.8 | 32.9 | 36.4 | 40.4 | 44.7 | 48.6 | 51.0 | 53.1 | 55.6 |
| 109 | 26.7 | 28.6 | 30.4 | 32.4 | 35.8 | 39.8 | 44.0 | 47.8 | 50.2 | 52.3 | 54.7 |
| 110 | 26.3 | 28.2 | 29.9 | 31.9 | 35.3 | 39.2 | 43.3 | 47.1 | 49.4 | 51.5 | 53.9 |
| 111 | 25.9 | 27.8 | 29.5 | 31.4 | 34.8 | 38.6 | 42.7 | 46.4 | 48.7 | 50.7 | 53.1 |
| 112 | 25.6 | 27.4 | 29.0 | 30.9 | 34.2 | 38.0 | 42.0 | 45.7 | 47.9 | 49.9 | 52.2 |
| 113 | 25.2 | 27.0 | 28.6 | 30.5 | 33.7 | 37.5 | 41.3 | 45.0 | 47.2 | 49.1 | 51.4 |
| 114 | 24.8 | 26.6 | 28.2 | 30.0 | 33.2 | 36.9 | 40.7 | 44.2 | 46.4 | 48.3 | 50.6 |
| 115 | 24.4 | 26.2 | 27.7 | 29.6 | 32.7 | 36.3 | 40.1 | 43.6 | 45.7 | 47.6 | 49.8 |
| 116 | 24.1 | 25.8 | 27.3 | 29.1 | 32.2 | 35.7 | 39.4 | 42.9 | 45.0 | 46.8 | 49.0 |
| 117 | 23.7 | 25.4 | 26.9 | 28.7 | 31.7 | 35.2 | 38.8 | 42.2 | 44.2 | 46.1 | 48.2 |
| 118 | 23.4 | 25.0 | 26.5 | 28.2 | 31.2 | 34.6 | 38.2 | 41.5 | 43.5 | 45.3 | 47.4 |
| 119 | 23.0 | 24.7 | 26.1 | 27.8 | 30.7 | 34.1 | 37.6 | 40.8 | 42.8 | 44.6 | 46.6 |
| 120 | 22.7 | 24.3 | 25.7 | 27.4 | 30.2 | 33.5 | 37.0 | 40.2 | 42.1 | 43.8 | 45.9 |
| 121 | 22.3 | 23.9 | 25.3 | 26.9 | 29.8 | 33.0 | 36.4 | 39.5 | 41.4 | 43.1 | 45.1 |
| 122 | 22.0 | 23.5 | 24.9 | 26.5 | 29.3 | 32.5 | 35.8 | 38.9 | 40.7 | 42.4 | 44.4 |
| 123 | 21.7 | 23.2 | 24.5 | 26.1 | 28.8 | 31.9 | 35.2 | 38.2 | 40.1 | 41.7 | 43.6 |
| 124 | 21.3 | 22.8 | 24.1 | 25.7 | 28.4 | 31.4 | 34.6 | 37.6 | 39.4 | 41.0 | 42.9 |
| 125 | 21.0 | 22.5 | 23.8 | 25.3 | 27.9 | 30.9 | 34.0 | 36.9 | 38.7 | 40.3 | 42.1 |
| 126 | 20.7 | 22.1 | 23.4 | 24.9 | 27.4 | 30.4 | 33.5 | 36.3 | 38.1 | 39.6 | 41.4 |
| 127 | 20.4 | 21.8 | 23.0 | 24.5 | 27.0 | 29.9 | 32.9 | 35.7 | 37.4 | 38.9 | 40.7 |
| 128 | 20.0 | 21.4 | 22.6 | 24.1 | 26.5 | 29.4 | 32.3 | 35.1 | 36.7 | 38.2 | 40.0 |
| 129 | 19.7 | 21.1 | 22.3 | 23.7 | 26.1 | 28.9 | 31.8 | 34.5 | 36.1 | 37.5 | 39.3 |
| 130 | 19.4 | 20.8 | 21.9 | 23.3 | 25.7 | 28.4 | 31.2 | 33.9 | 35.5 | 36.9 | 38.6 |
| 131 | 19.1 | 20.4 | 21.6 | 22.9 | 25.2 | 27.9 | 30.7 | 33.3 | 34.8 | 36.2 | 37.9 |
| 132 | 18.8 | 20.1 | 21.2 | 22.5 | 24.8 | 27.4 | 30.2 | 32.7 | 34.2 | 35.6 | 37.2 |
| 133 | 18.5 | 19.8 | 20.9 | 22.2 | 24.4 | 27.0 | 29.6 | 32.1 | 33.6 | 34.9 | 36.5 |
| 134 | 18.2 | 19.4 | 20.5 | 21.8 | 24.0 | 26.5 | 29.1 | 31.5 | 33.0 | 34.3 | 35.8 |
| 135 | 17.9 | 19.1 | 20.2 | 21.4 | 23.6 | 26.0 | 28.6 | 30.9 | 32.4 | 33.6 | 35.1 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S4. Heart rate-related Ris for stroke volume (ml): Males** | | | | | | | | | | | |
| **Heart rate [bpm]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 44 | 73.7 | 78.6 | 82.8 | 87.6 | 95.5 | 104.2 | 112.8 | 120.4 | 125.0 | 128.9 | 133.5 |
| 45 | 72.6 | 77.5 | 81.6 | 86.4 | 94.3 | 102.9 | 111.5 | 119.1 | 123.6 | 127.6 | 132.1 |
| 46 | 71.5 | 76.4 | 80.5 | 85.2 | 93.1 | 101.7 | 110.2 | 117.8 | 122.3 | 126.2 | 130.7 |
| 47 | 70.5 | 75.3 | 79.4 | 84.1 | 91.9 | 100.4 | 108.9 | 116.5 | 120.9 | 124.8 | 129.3 |
| 48 | 69.4 | 74.2 | 78.3 | 83.0 | 90.7 | 99.2 | 107.7 | 115.2 | 119.6 | 123.5 | 127.9 |
| 49 | 68.4 | 73.1 | 77.2 | 81.9 | 89.6 | 98.0 | 106.4 | 113.9 | 118.3 | 122.1 | 126.6 |
| 50 | 67.4 | 72.1 | 76.1 | 80.8 | 88.4 | 96.9 | 105.2 | 112.6 | 117.0 | 120.8 | 125.2 |
| 51 | 66.3 | 71.1 | 75.1 | 79.7 | 87.3 | 95.7 | 104.0 | 111.3 | 115.7 | 119.5 | 123.9 |
| 52 | 65.4 | 70.1 | 74.1 | 78.6 | 86.2 | 94.5 | 102.8 | 110.1 | 114.4 | 118.2 | 122.5 |
| 53 | 64.4 | 69.0 | 73.0 | 77.6 | 85.1 | 93.4 | 101.6 | 108.8 | 113.2 | 116.9 | 121.2 |
| 54 | 63.4 | 68.1 | 72.0 | 76.5 | 84.0 | 92.2 | 100.4 | 107.6 | 111.9 | 115.6 | 119.9 |
| 55 | 62.5 | 67.1 | 71.0 | 75.5 | 82.9 | 91.1 | 99.2 | 106.4 | 110.7 | 114.4 | 118.6 |
| 56 | 61.5 | 66.1 | 70.0 | 74.5 | 81.9 | 90.0 | 98.0 | 105.2 | 109.4 | 113.1 | 117.3 |
| 57 | 60.6 | 65.2 | 69.1 | 73.5 | 80.8 | 88.9 | 96.9 | 104.0 | 108.2 | 111.8 | 116.1 |
| 58 | 59.7 | 64.2 | 68.1 | 72.5 | 79.8 | 87.8 | 95.8 | 102.8 | 107.0 | 110.6 | 114.8 |
| 59 | 58.8 | 63.3 | 67.1 | 71.5 | 78.8 | 86.7 | 94.6 | 101.6 | 105.8 | 109.4 | 113.5 |
| 60 | 57.9 | 62.4 | 66.2 | 70.6 | 77.8 | 85.7 | 93.5 | 100.4 | 104.6 | 108.1 | 112.3 |
| 61 | 57.1 | 61.5 | 65.3 | 69.6 | 76.7 | 84.6 | 92.4 | 99.3 | 103.4 | 106.9 | 111.0 |
| 62 | 56.2 | 60.6 | 64.4 | 68.7 | 75.8 | 83.6 | 91.3 | 98.1 | 102.2 | 105.7 | 109.8 |
| 63 | 55.3 | 59.7 | 63.4 | 67.7 | 74.8 | 82.5 | 90.2 | 97.0 | 101.0 | 104.5 | 108.6 |
| 64 | 54.5 | 58.8 | 62.5 | 66.8 | 73.8 | 81.5 | 89.1 | 95.8 | 99.8 | 103.3 | 107.3 |
| 65 | 53.7 | 58.0 | 61.7 | 65.9 | 72.8 | 80.4 | 88.0 | 94.7 | 98.7 | 102.1 | 106.1 |
| 66 | 52.8 | 57.1 | 60.8 | 64.9 | 71.8 | 79.4 | 86.9 | 93.6 | 97.5 | 100.9 | 104.9 |
| 67 | 52.0 | 56.3 | 59.9 | 64.0 | 70.9 | 78.4 | 85.9 | 92.5 | 96.4 | 99.8 | 103.7 |
| 68 | 51.2 | 55.4 | 59.0 | 63.1 | 69.9 | 77.4 | 84.8 | 91.3 | 95.2 | 98.6 | 102.5 |
| 69 | 50.4 | 54.6 | 58.2 | 62.3 | 69.0 | 76.4 | 83.7 | 90.2 | 94.1 | 97.4 | 101.3 |
| 70 | 49.6 | 53.8 | 57.3 | 61.4 | 68.1 | 75.4 | 82.7 | 89.1 | 93.0 | 96.3 | 100.1 |
| 71 | 48.8 | 52.9 | 56.5 | 60.5 | 67.1 | 74.4 | 81.6 | 88.0 | 91.8 | 95.1 | 98.9 |
| 72 | 48.0 | 52.1 | 55.6 | 59.6 | 66.2 | 73.4 | 80.6 | 86.9 | 90.7 | 94.0 | 97.7 |
| 73 | 47.3 | 51.3 | 54.8 | 58.8 | 65.3 | 72.5 | 79.6 | 85.9 | 89.6 | 92.8 | 96.6 |
| 74 | 46.5 | 50.5 | 54.0 | 57.9 | 64.4 | 71.5 | 78.5 | 84.8 | 88.5 | 91.7 | 95.4 |
| 75 | 45.7 | 49.7 | 53.2 | 57.1 | 63.5 | 70.5 | 77.5 | 83.7 | 87.4 | 90.6 | 94.2 |
| 76 | 45.0 | 49.0 | 52.3 | 56.2 | 62.6 | 69.6 | 76.5 | 82.6 | 86.3 | 89.4 | 93.1 |
| 77 | 44.2 | 48.2 | 51.5 | 55.4 | 61.7 | 68.6 | 75.5 | 81.6 | 85.2 | 88.3 | 91.9 |
| 78 | 43.5 | 47.4 | 50.7 | 54.5 | 60.8 | 67.7 | 74.5 | 80.5 | 84.1 | 87.2 | 90.8 |
| 79 | 42.8 | 46.6 | 49.9 | 53.7 | 59.9 | 66.7 | 73.5 | 79.5 | 83.0 | 86.1 | 89.6 |
| 80 | 42.0 | 45.9 | 49.2 | 52.9 | 59.0 | 65.8 | 72.5 | 78.4 | 81.9 | 85.0 | 88.5 |
| 81 | 41.3 | 45.1 | 48.4 | 52.1 | 58.2 | 64.9 | 71.5 | 77.4 | 80.8 | 83.8 | 87.3 |
| 82 | 40.6 | 44.4 | 47.6 | 51.3 | 57.3 | 63.9 | 70.5 | 76.3 | 79.8 | 82.7 | 86.2 |
| 83 | 39.9 | 43.6 | 46.8 | 50.4 | 56.4 | 63.0 | 69.5 | 75.3 | 78.7 | 81.6 | 85.1 |
| 84 | 39.2 | 42.9 | 46.0 | 49.6 | 55.6 | 62.1 | 68.5 | 74.2 | 77.6 | 80.5 | 83.9 |
| 85 | 38.5 | 42.2 | 45.3 | 48.8 | 54.7 | 61.2 | 67.5 | 73.2 | 76.6 | 79.4 | 82.8 |
| 86 | 37.8 | 41.4 | 44.5 | 48.1 | 53.9 | 60.3 | 66.6 | 72.2 | 75.5 | 78.4 | 81.7 |
| 87 | 37.1 | 40.7 | 43.8 | 47.3 | 53.0 | 59.4 | 65.6 | 71.1 | 74.4 | 77.3 | 80.6 |
| 88 | 36.4 | 40.0 | 43.0 | 46.5 | 52.2 | 58.5 | 64.6 | 70.1 | 73.4 | 76.2 | 79.4 |
| 89 | 35.7 | 39.3 | 42.3 | 45.7 | 51.3 | 57.6 | 63.7 | 69.1 | 72.3 | 75.1 | 78.3 |
| 90 | 35.1 | 38.6 | 41.5 | 44.9 | 50.5 | 56.7 | 62.7 | 68.1 | 71.3 | 74.0 | 77.2 |
| 91 | 34.4 | 37.8 | 40.8 | 44.2 | 49.7 | 55.8 | 61.7 | 67.1 | 70.2 | 72.9 | 76.1 |
| 92 | 33.7 | 37.1 | 40.1 | 43.4 | 48.9 | 54.9 | 60.8 | 66.0 | 69.2 | 71.9 | 75.0 |
| 93 | 33.1 | 36.4 | 39.3 | 42.6 | 48.0 | 54.0 | 59.8 | 65.0 | 68.1 | 70.8 | 73.9 |
| 94 | 32.4 | 35.7 | 38.6 | 41.9 | 47.2 | 53.1 | 58.9 | 64.0 | 67.1 | 69.7 | 72.8 |
| 95 | 31.7 | 35.1 | 37.9 | 41.1 | 46.4 | 52.2 | 57.9 | 63.0 | 66.0 | 68.6 | 71.7 |
| 96 | 31.1 | 34.4 | 37.2 | 40.3 | 45.6 | 51.3 | 57.0 | 62.0 | 65.0 | 67.6 | 70.6 |
| 97 | 30.4 | 33.7 | 36.4 | 39.6 | 44.8 | 50.4 | 56.0 | 61.0 | 64.0 | 66.5 | 69.5 |
| 98 | 29.8 | 33.0 | 35.7 | 38.8 | 44.0 | 49.6 | 55.1 | 60.0 | 62.9 | 65.4 | 68.4 |
| 99 | 29.1 | 32.3 | 35.0 | 38.1 | 43.1 | 48.7 | 54.2 | 59.0 | 61.9 | 64.4 | 67.3 |
| 100 | 28.5 | 31.6 | 34.3 | 37.3 | 42.3 | 47.8 | 53.2 | 58.0 | 60.9 | 63.3 | 66.2 |
| 101 | 27.9 | 31.0 | 33.6 | 36.6 | 41.5 | 47.0 | 52.3 | 57.0 | 59.8 | 62.3 | 65.1 |
| 102 | 27.2 | 30.3 | 32.9 | 35.9 | 40.7 | 46.1 | 51.4 | 56.0 | 58.8 | 61.2 | 64.0 |
| 103 | 26.6 | 29.6 | 32.2 | 35.1 | 39.9 | 45.2 | 50.4 | 55.0 | 57.8 | 60.1 | 62.9 |
| 104 | 26.0 | 29.0 | 31.5 | 34.4 | 39.1 | 44.4 | 49.5 | 54.0 | 56.8 | 59.1 | 61.8 |
| 105 | 25.3 | 28.3 | 30.8 | 33.7 | 38.4 | 43.5 | 48.6 | 53.1 | 55.7 | 58.0 | 60.7 |
| 106 | 24.7 | 27.6 | 30.1 | 32.9 | 37.6 | 42.6 | 47.6 | 52.1 | 54.7 | 57.0 | 59.6 |
| 107 | 24.1 | 27.0 | 29.4 | 32.2 | 36.8 | 41.8 | 46.7 | 51.1 | 53.7 | 55.9 | 58.5 |
| 108 | 23.5 | 26.3 | 28.7 | 31.5 | 36.0 | 40.9 | 45.8 | 50.1 | 52.7 | 54.9 | 57.4 |
| 109 | 22.9 | 25.7 | 28.0 | 30.7 | 35.2 | 40.1 | 44.9 | 49.1 | 51.6 | 53.8 | 56.3 |
| 110 | 22.2 | 25.0 | 27.4 | 30.0 | 34.4 | 39.2 | 43.9 | 48.1 | 50.6 | 52.8 | 55.2 |
| 111 | 21.6 | 24.4 | 26.7 | 29.3 | 33.6 | 38.4 | 43.0 | 47.1 | 49.6 | 51.7 | 54.2 |
| 112 | 21.0 | 23.7 | 26.0 | 28.6 | 32.8 | 37.5 | 42.1 | 46.2 | 48.6 | 50.7 | 53.1 |
| 113 | 20.4 | 23.1 | 25.3 | 27.9 | 32.1 | 36.7 | 41.2 | 45.2 | 47.6 | 49.6 | 52.0 |
| 114 | 19.8 | 22.4 | 24.6 | 27.1 | 31.3 | 35.8 | 40.3 | 44.2 | 46.5 | 48.6 | 50.9 |
| 115 | 19.2 | 21.8 | 24.0 | 26.4 | 30.5 | 35.0 | 39.3 | 43.2 | 45.5 | 47.5 | 49.8 |
| 116 | 18.6 | 21.1 | 23.3 | 25.7 | 29.7 | 34.1 | 38.4 | 42.2 | 44.5 | 46.5 | 48.7 |
| 117 | 18.0 | 20.5 | 22.6 | 25.0 | 28.9 | 33.3 | 37.5 | 41.3 | 43.5 | 45.4 | 47.6 |
| 118 | 17.4 | 19.8 | 21.9 | 24.3 | 28.2 | 32.4 | 36.6 | 40.3 | 42.5 | 44.4 | 46.5 |
| 119 | 16.8 | 19.2 | 21.3 | 23.6 | 27.4 | 31.6 | 35.7 | 39.3 | 41.4 | 43.3 | 45.4 |
| 120 | 16.2 | 18.6 | 20.6 | 22.9 | 26.6 | 30.7 | 34.7 | 38.3 | 40.4 | 42.3 | 44.4 |
| 121 | 15.6 | 17.9 | 19.9 | 22.2 | 25.8 | 29.9 | 33.8 | 37.3 | 39.4 | 41.2 | 43.3 |
| 122 | 15.0 | 17.3 | 19.2 | 21.4 | 25.1 | 29.0 | 32.9 | 36.3 | 38.4 | 40.1 | 42.2 |
| 123 | 14.4 | 16.7 | 18.6 | 20.7 | 24.3 | 28.2 | 32.0 | 35.4 | 37.4 | 39.1 | 41.1 |
| 124 | 13.8 | 16.0 | 17.9 | 20.0 | 23.5 | 27.3 | 31.1 | 34.4 | 36.3 | 38.0 | 40.0 |
| 125 | 13.2 | 15.4 | 17.2 | 19.3 | 22.7 | 26.5 | 30.1 | 33.4 | 35.3 | 37.0 | 38.9 |
| 126 | 12.6 | 14.7 | 16.6 | 18.6 | 22.0 | 25.6 | 29.2 | 32.4 | 34.3 | 35.9 | 37.8 |

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| **Table S5. Body height-related Ris for stroke volume (ml): Females** | | | | | | | | | | | |
| **Body Height [m]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 1.00 | 26.1 | 28.0 | 29.7 | 31.7 | 35.1 | 39.0 | 43.1 | 46.9 | 49.2 | 51.3 | 53.7 |
| 1.10 | 28.8 | 31.1 | 33.1 | 35.6 | 39.7 | 44.5 | 49.6 | 54.2 | 57.1 | 59.6 | 62.6 |
| 1.20 | 31.7 | 34.4 | 36.7 | 39.5 | 44.4 | 50.0 | 55.8 | 61.3 | 64.7 | 67.6 | 71.1 |
| 1.30 | 34.8 | 37.8 | 40.5 | 43.6 | 49.0 | 55.4 | 62.0 | 68.1 | 71.9 | 75.2 | 79.2 |
| 1.40 | 38.1 | 41.4 | 44.3 | 47.8 | 53.7 | 60.7 | 67.9 | 74.6 | 78.8 | 82.5 | 86.8 |
| 1.50 | 41.6 | 45.2 | 48.3 | 52.0 | 58.4 | 65.9 | 73.7 | 81.0 | 85.4 | 89.4 | 94.0 |
| 1.60 | 45.3 | 49.1 | 52.4 | 56.4 | 63.2 | 71.1 | 79.4 | 87.1 | 91.8 | 96.0 | 100.9 |
| 1.70 | 49.1 | 53.1 | 56.6 | 60.8 | 67.9 | 76.3 | 84.9 | 93.0 | 97.9 | 102.3 | 107.4 |
| 1.80 | 53.1 | 57.3 | 61.0 | 65.3 | 72.7 | 81.4 | 90.3 | 98.7 | 103.8 | 108.3 | 113.6 |
| **Table S6. Body height-related Ris for stroke volume (ml): Males** | | | | | | | | | | | |
| **Body Height [m]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 1.00 | 28.3 | 29.9 | 31.3 | 32.9 | 35.6 | 38.5 | 41.4 | 44.0 | 45.5 | 46.9 | 48.4 |
| 1.10 | 29.0 | 32.1 | 34.7 | 37.6 | 42.5 | 47.9 | 53.1 | 57.8 | 60.6 | 63.0 | 65.7 |
| 1.20 | 30.9 | 34.9 | 38.4 | 42.3 | 48.7 | 55.7 | 62.6 | 68.8 | 72.4 | 75.5 | 79.2 |
| 1.30 | 33.6 | 38.3 | 42.3 | 46.9 | 54.3 | 62.4 | 70.4 | 77.5 | 81.7 | 85.4 | 89.5 |
| 1.40 | 37.1 | 42.2 | 46.5 | 51.4 | 59.4 | 68.2 | 76.8 | 84.5 | 89.0 | 92.9 | 97.5 |
| 1.50 | 41.2 | 46.4 | 50.8 | 55.8 | 64.1 | 73.2 | 82.1 | 89.9 | 94.6 | 98.7 | 103.3 |
| 1.60 | 45.8 | 50.9 | 55.3 | 60.2 | 68.4 | 77.4 | 86.3 | 94.1 | 98.8 | 102.8 | 107.4 |
| 1.70 | 50.7 | 55.7 | 59.8 | 64.6 | 72.5 | 81.1 | 89.6 | 97.2 | 101.7 | 105.5 | 110.0 |
| 1.80 | 56.1 | 60.6 | 64.5 | 68.9 | 76.2 | 84.3 | 92.2 | 99.3 | 103.5 | 107.1 | 111.3 |
| 1.90 | 61.7 | 65.8 | 69.3 | 73.2 | 79.8 | 87.0 | 94.2 | 100.5 | 104.3 | 107.6 | 111.3 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S7. Age-related Ris for cardiac output (liter/minute): Females** | | | | | | | | | | | |
| **Age [years]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 4 | 2.9 | 3.0 | 3.1 | 3.2 | 3.4 | 3.7 | 3.9 | 4.2 | 4.3 | 4.5 | 4.6 |
| 5 | 3.1 | 3.2 | 3.3 | 3.5 | 3.7 | 3.9 | 4.2 | 4.5 | 4.7 | 4.8 | 5.0 |
| 6 | 3.2 | 3.4 | 3.5 | 3.6 | 3.9 | 4.2 | 4.5 | 4.8 | 5.0 | 5.1 | 5.4 |
| 7 | 3.4 | 3.5 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.0 | 5.2 | 5.4 | 5.6 |
| 8 | 3.5 | 3.6 | 3.7 | 3.9 | 4.2 | 4.5 | 4.9 | 5.2 | 5.4 | 5.6 | 5.8 |
| 9 | 3.5 | 3.7 | 3.8 | 4.0 | 4.3 | 4.6 | 5.0 | 5.4 | 5.6 | 5.8 | 6.0 |
| 10 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.7 | 5.1 | 5.5 | 5.7 | 5.9 | 6.2 |
| 11 | 3.7 | 3.8 | 4.0 | 4.2 | 4.5 | 4.8 | 5.2 | 5.6 | 5.9 | 6.1 | 6.3 |
| 12 | 3.7 | 3.9 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 6.0 | 6.2 | 6.5 |
| 13 | 3.8 | 3.9 | 4.1 | 4.3 | 4.6 | 5.0 | 5.4 | 5.8 | 6.1 | 6.3 | 6.6 |
| 14 | 3.8 | 4.0 | 4.1 | 4.3 | 4.6 | 5.0 | 5.5 | 5.9 | 6.1 | 6.4 | 6.7 |
| 15 | 3.8 | 4.0 | 4.2 | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 | 6.2 | 6.5 | 6.7 |
| 16 | 3.9 | 4.0 | 4.2 | 4.4 | 4.7 | 5.1 | 5.6 | 6.0 | 6.3 | 6.5 | 6.8 |
| 17 | 3.9 | 4.1 | 4.2 | 4.4 | 4.8 | 5.2 | 5.6 | 6.0 | 6.3 | 6.6 | 6.9 |
| 18 | 3.9 | 4.1 | 4.2 | 4.4 | 4.8 | 5.2 | 5.6 | 6.1 | 6.4 | 6.6 | 6.9 |
| 19 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.2 | 5.7 | 6.1 | 6.4 | 6.7 | 7.0 |
| 20 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.2 | 5.7 | 6.2 | 6.4 | 6.7 | 7.0 |
| 21 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.3 | 5.7 | 6.2 | 6.5 | 6.7 | 7.0 |
| 22 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.3 | 5.7 | 6.2 | 6.5 | 6.8 | 7.1 |
| 23 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 24 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 25 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 26 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 27 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 28 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 29 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 30 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 31 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 32 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 33 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.1 |
| 34 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.3 | 5.7 | 6.2 | 6.5 | 6.8 | 7.1 |
| 35 | 3.9 | 4.1 | 4.2 | 4.5 | 4.8 | 5.3 | 5.7 | 6.2 | 6.5 | 6.8 | 7.1 |
| 36 | 3.9 | 4.1 | 4.2 | 4.4 | 4.8 | 5.2 | 5.7 | 6.2 | 6.5 | 6.8 | 7.1 |
| 37 | 3.9 | 4.1 | 4.2 | 4.4 | 4.8 | 5.2 | 5.7 | 6.2 | 6.5 | 6.7 | 7.1 |
| 38 | 3.9 | 4.0 | 4.2 | 4.4 | 4.8 | 5.2 | 5.7 | 6.2 | 6.5 | 6.7 | 7.1 |
| 39 | 3.8 | 4.0 | 4.2 | 4.4 | 4.8 | 5.2 | 5.7 | 6.1 | 6.4 | 6.7 | 7.0 |
| 40 | 3.8 | 4.0 | 4.2 | 4.4 | 4.8 | 5.2 | 5.7 | 6.1 | 6.4 | 6.7 | 7.0 |
| 41 | 3.8 | 4.0 | 4.2 | 4.4 | 4.7 | 5.2 | 5.6 | 6.1 | 6.4 | 6.7 | 7.0 |
| 42 | 3.8 | 4.0 | 4.2 | 4.4 | 4.7 | 5.2 | 5.6 | 6.1 | 6.4 | 6.7 | 7.0 |
| 43 | 3.8 | 4.0 | 4.1 | 4.3 | 4.7 | 5.1 | 5.6 | 6.1 | 6.4 | 6.6 | 7.0 |
| 44 | 3.8 | 4.0 | 4.1 | 4.3 | 4.7 | 5.1 | 5.6 | 6.1 | 6.3 | 6.6 | 6.9 |
| 45 | 3.8 | 4.0 | 4.1 | 4.3 | 4.7 | 5.1 | 5.6 | 6.0 | 6.3 | 6.6 | 6.9 |
| 46 | 3.8 | 3.9 | 4.1 | 4.3 | 4.7 | 5.1 | 5.6 | 6.0 | 6.3 | 6.6 | 6.9 |
| 47 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.1 | 5.5 | 6.0 | 6.3 | 6.5 | 6.9 |
| 48 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.0 | 5.5 | 6.0 | 6.3 | 6.5 | 6.8 |
| 49 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.0 | 5.5 | 5.9 | 6.2 | 6.5 | 6.8 |
| 50 | 3.7 | 3.9 | 4.0 | 4.2 | 4.6 | 5.0 | 5.5 | 5.9 | 6.2 | 6.5 | 6.8 |
| 51 | 3.7 | 3.9 | 4.0 | 4.2 | 4.6 | 5.0 | 5.5 | 5.9 | 6.2 | 6.4 | 6.8 |
| 52 | 3.7 | 3.8 | 4.0 | 4.2 | 4.5 | 5.0 | 5.4 | 5.9 | 6.2 | 6.4 | 6.7 |
| 53 | 3.7 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.4 | 5.9 | 6.1 | 6.4 | 6.7 |
| 54 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.4 | 5.8 | 6.1 | 6.4 | 6.7 |
| 55 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.4 | 5.8 | 6.1 | 6.3 | 6.7 |
| 56 | 3.6 | 3.8 | 3.9 | 4.1 | 4.5 | 4.9 | 5.3 | 5.8 | 6.1 | 6.3 | 6.6 |
| 57 | 3.6 | 3.8 | 3.9 | 4.1 | 4.5 | 4.9 | 5.3 | 5.8 | 6.0 | 6.3 | 6.6 |
| 58 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.8 | 5.3 | 5.7 | 6.0 | 6.3 | 6.6 |
| 59 | 3.6 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.3 | 5.7 | 6.0 | 6.2 | 6.5 |
| 60 | 3.5 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.7 | 6.0 | 6.2 | 6.5 |
| 61 | 3.5 | 3.7 | 3.9 | 4.0 | 4.4 | 4.8 | 5.2 | 5.7 | 5.9 | 6.2 | 6.5 |
| 62 | 3.5 | 3.7 | 3.8 | 4.0 | 4.4 | 4.8 | 5.2 | 5.6 | 5.9 | 6.2 | 6.5 |
| 63 | 3.5 | 3.7 | 3.8 | 4.0 | 4.3 | 4.7 | 5.2 | 5.6 | 5.9 | 6.1 | 6.4 |
| 64 | 3.5 | 3.7 | 3.8 | 4.0 | 4.3 | 4.7 | 5.2 | 5.6 | 5.9 | 6.1 | 6.4 |
| 65 | 3.5 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.1 | 5.6 | 5.8 | 6.1 | 6.4 |
| 66 | 3.5 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.1 | 5.5 | 5.8 | 6.0 | 6.3 |
| 67 | 3.4 | 3.6 | 3.8 | 3.9 | 4.3 | 4.7 | 5.1 | 5.5 | 5.8 | 6.0 | 6.3 |
| 68 | 3.4 | 3.6 | 3.7 | 3.9 | 4.2 | 4.6 | 5.1 | 5.5 | 5.7 | 6.0 | 6.3 |
| 69 | 3.4 | 3.6 | 3.7 | 3.9 | 4.2 | 4.6 | 5.0 | 5.5 | 5.7 | 6.0 | 6.2 |
| 70 | 3.4 | 3.6 | 3.7 | 3.9 | 4.2 | 4.6 | 5.0 | 5.4 | 5.7 | 5.9 | 6.2 |
| 71 | 3.4 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.0 | 5.4 | 5.7 | 5.9 | 6.2 |
| 72 | 3.4 | 3.5 | 3.7 | 3.8 | 4.2 | 4.5 | 5.0 | 5.4 | 5.6 | 5.9 | 6.2 |
| 73 | 3.3 | 3.5 | 3.7 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.6 | 5.8 | 6.1 |
| 74 | 3.3 | 3.5 | 3.6 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.6 | 5.8 | 6.1 |
| 75 | 3.3 | 3.5 | 3.6 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.6 | 5.8 | 6.1 |
| 76 | 3.3 | 3.5 | 3.6 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.5 | 5.8 | 6.0 |
| 77 | 3.3 | 3.4 | 3.6 | 3.8 | 4.1 | 4.4 | 4.8 | 5.2 | 5.5 | 5.7 | 6.0 |
| 78 | 3.3 | 3.4 | 3.6 | 3.7 | 4.0 | 4.4 | 4.8 | 5.2 | 5.5 | 5.7 | 6.0 |
| 79 | 3.2 | 3.4 | 3.5 | 3.7 | 4.0 | 4.4 | 4.8 | 5.2 | 5.4 | 5.7 | 5.9 |
| 80 | 3.2 | 3.4 | 3.5 | 3.7 | 4.0 | 4.4 | 4.8 | 5.2 | 5.4 | 5.6 | 5.9 |
| 81 | 3.2 | 3.4 | 3.5 | 3.7 | 4.0 | 4.4 | 4.8 | 5.1 | 5.4 | 5.6 | 5.9 |
| 82 | 3.2 | 3.4 | 3.5 | 3.7 | 4.0 | 4.3 | 4.7 | 5.1 | 5.4 | 5.6 | 5.9 |
| 83 | 3.2 | 3.3 | 3.5 | 3.6 | 3.9 | 4.3 | 4.7 | 5.1 | 5.3 | 5.6 | 5.8 |
| 84 | 3.2 | 3.3 | 3.5 | 3.6 | 3.9 | 4.3 | 4.7 | 5.1 | 5.3 | 5.5 | 5.8 |
| 85 | 3.2 | 3.3 | 3.4 | 3.6 | 3.9 | 4.3 | 4.7 | 5.0 | 5.3 | 5.5 | 5.8 |
| 86 | 3.1 | 3.3 | 3.4 | 3.6 | 3.9 | 4.2 | 4.6 | 5.0 | 5.3 | 5.5 | 5.7 |
| 87 | 3.1 | 3.3 | 3.4 | 3.6 | 3.9 | 4.2 | 4.6 | 5.0 | 5.2 | 5.4 | 5.7 |
| 88 | 3.1 | 3.3 | 3.4 | 3.6 | 3.9 | 4.2 | 4.6 | 5.0 | 5.2 | 5.4 | 5.7 |

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| **Table S8. Age-related Ris for cardiac output (liter/minute): Males** | | | | | | | | | | | |
| **Age [years]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 5 | 3.1 | 3.3 | 3.4 | 3.5 | 3.8 | 4.1 | 4.4 | 4.7 | 4.9 | 5.0 | 5.2 |
| 6 | 3.3 | 3.5 | 3.6 | 3.8 | 4.1 | 4.4 | 4.8 | 5.1 | 5.3 | 5.5 | 5.7 |
| 7 | 3.5 | 3.7 | 3.8 | 4.0 | 4.3 | 4.7 | 5.1 | 5.4 | 5.7 | 5.9 | 6.1 |
| 8 | 3.6 | 3.8 | 4.0 | 4.1 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.1 | 6.4 |
| 9 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.0 | 5.5 | 5.9 | 6.1 | 6.4 | 6.6 |
| 10 | 3.8 | 4.0 | 4.2 | 4.4 | 4.7 | 5.2 | 5.6 | 6.1 | 6.3 | 6.6 | 6.8 |
| 11 | 3.9 | 4.1 | 4.2 | 4.5 | 4.8 | 5.3 | 5.7 | 6.2 | 6.5 | 6.7 | 7.0 |
| 12 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.4 | 5.8 | 6.3 | 6.6 | 6.8 | 7.1 |
| 13 | 3.9 | 4.2 | 4.4 | 4.6 | 5.0 | 5.4 | 5.9 | 6.4 | 6.7 | 6.9 | 7.2 |
| 14 | 4.0 | 4.2 | 4.4 | 4.6 | 5.0 | 5.5 | 6.0 | 6.4 | 6.7 | 7.0 | 7.3 |
| 15 | 4.0 | 4.2 | 4.4 | 4.7 | 5.1 | 5.5 | 6.0 | 6.5 | 6.8 | 7.1 | 7.4 |
| 16 | 4.0 | 4.3 | 4.4 | 4.7 | 5.1 | 5.6 | 6.1 | 6.5 | 6.8 | 7.1 | 7.4 |
| 17 | 4.0 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.1 | 7.4 |
| 18 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.1 | 7.5 |
| 19 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.2 | 7.5 |
| 20 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.2 | 7.5 |
| 21 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.2 | 7.5 |
| 22 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.2 | 7.5 |
| 23 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.2 | 7.5 |
| 24 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.1 | 7.5 |
| 25 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.1 | 7.4 |
| 26 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.6 | 6.9 | 7.1 | 7.4 |
| 27 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.5 | 6.8 | 7.1 | 7.4 |
| 28 | 4.1 | 4.3 | 4.5 | 4.7 | 5.1 | 5.6 | 6.1 | 6.5 | 6.8 | 7.1 | 7.4 |
| 29 | 4.0 | 4.3 | 4.5 | 4.7 | 5.1 | 5.5 | 6.0 | 6.5 | 6.8 | 7.0 | 7.4 |
| 30 | 4.0 | 4.3 | 4.4 | 4.7 | 5.1 | 5.5 | 6.0 | 6.5 | 6.8 | 7.0 | 7.3 |
| 31 | 4.0 | 4.2 | 4.4 | 4.7 | 5.1 | 5.5 | 6.0 | 6.5 | 6.7 | 7.0 | 7.3 |
| 32 | 4.0 | 4.2 | 4.4 | 4.6 | 5.0 | 5.5 | 6.0 | 6.4 | 6.7 | 7.0 | 7.3 |
| 33 | 4.0 | 4.2 | 4.4 | 4.6 | 5.0 | 5.5 | 6.0 | 6.4 | 6.7 | 6.9 | 7.2 |
| 34 | 4.0 | 4.2 | 4.4 | 4.6 | 5.0 | 5.5 | 5.9 | 6.4 | 6.7 | 6.9 | 7.2 |
| 35 | 4.0 | 4.2 | 4.4 | 4.6 | 5.0 | 5.4 | 5.9 | 6.4 | 6.6 | 6.9 | 7.2 |
| 36 | 4.0 | 4.2 | 4.4 | 4.6 | 5.0 | 5.4 | 5.9 | 6.3 | 6.6 | 6.9 | 7.2 |
| 37 | 4.0 | 4.2 | 4.4 | 4.6 | 5.0 | 5.4 | 5.9 | 6.3 | 6.6 | 6.8 | 7.1 |
| 38 | 4.0 | 4.2 | 4.3 | 4.6 | 4.9 | 5.4 | 5.8 | 6.3 | 6.6 | 6.8 | 7.1 |
| 39 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.4 | 5.8 | 6.3 | 6.5 | 6.8 | 7.1 |
| 40 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 | 7.0 |
| 41 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.7 | 7.0 |
| 42 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.2 | 6.5 | 6.7 | 7.0 |
| 43 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.7 | 6.2 | 6.4 | 6.7 | 7.0 |
| 44 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.3 | 5.7 | 6.1 | 6.4 | 6.6 | 6.9 |
| 45 | 3.9 | 4.1 | 4.2 | 4.5 | 4.8 | 5.2 | 5.7 | 6.1 | 6.4 | 6.6 | 6.9 |
| 46 | 3.9 | 4.1 | 4.2 | 4.4 | 4.8 | 5.2 | 5.7 | 6.1 | 6.4 | 6.6 | 6.9 |
| 47 | 3.9 | 4.0 | 4.2 | 4.4 | 4.8 | 5.2 | 5.7 | 6.1 | 6.3 | 6.6 | 6.8 |
| 48 | 3.8 | 4.0 | 4.2 | 4.4 | 4.8 | 5.2 | 5.6 | 6.1 | 6.3 | 6.5 | 6.8 |
| 49 | 3.8 | 4.0 | 4.2 | 4.4 | 4.8 | 5.2 | 5.6 | 6.0 | 6.3 | 6.5 | 6.8 |
| 50 | 3.8 | 4.0 | 4.2 | 4.4 | 4.7 | 5.2 | 5.6 | 6.0 | 6.3 | 6.5 | 6.8 |
| 51 | 3.8 | 4.0 | 4.2 | 4.4 | 4.7 | 5.1 | 5.6 | 6.0 | 6.2 | 6.5 | 6.7 |
| 52 | 3.8 | 4.0 | 4.2 | 4.4 | 4.7 | 5.1 | 5.6 | 6.0 | 6.2 | 6.4 | 6.7 |
| 53 | 3.8 | 4.0 | 4.1 | 4.4 | 4.7 | 5.1 | 5.5 | 6.0 | 6.2 | 6.4 | 6.7 |
| 54 | 3.8 | 4.0 | 4.1 | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 | 6.2 | 6.4 | 6.7 |
| 55 | 3.8 | 4.0 | 4.1 | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 | 6.2 | 6.4 | 6.7 |
| 56 | 3.8 | 3.9 | 4.1 | 4.3 | 4.7 | 5.1 | 5.5 | 5.9 | 6.1 | 6.4 | 6.6 |
| 57 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.1 | 5.5 | 5.9 | 6.1 | 6.3 | 6.6 |
| 58 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.0 | 5.5 | 5.9 | 6.1 | 6.3 | 6.6 |
| 59 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.0 | 5.4 | 5.8 | 6.1 | 6.3 | 6.6 |
| 60 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.0 | 5.4 | 5.8 | 6.1 | 6.3 | 6.5 |
| 61 | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 5.0 | 5.4 | 5.8 | 6.1 | 6.3 | 6.5 |
| 62 | 3.7 | 3.9 | 4.1 | 4.2 | 4.6 | 5.0 | 5.4 | 5.8 | 6.0 | 6.3 | 6.5 |
| 63 | 3.7 | 3.9 | 4.0 | 4.2 | 4.6 | 5.0 | 5.4 | 5.8 | 6.0 | 6.2 | 6.5 |
| 64 | 3.7 | 3.9 | 4.0 | 4.2 | 4.6 | 5.0 | 5.4 | 5.8 | 6.0 | 6.2 | 6.5 |
| 65 | 3.7 | 3.9 | 4.0 | 4.2 | 4.6 | 4.9 | 5.4 | 5.8 | 6.0 | 6.2 | 6.5 |
| 66 | 3.7 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 6.0 | 6.2 | 6.5 |
| 67 | 3.7 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 6.0 | 6.2 | 6.4 |
| 68 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 6.0 | 6.2 | 6.4 |
| 69 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.2 | 6.4 |
| 70 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.1 | 6.4 |
| 71 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.1 | 6.4 |
| 72 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.1 | 6.4 |
| 73 | 3.6 | 3.8 | 4.0 | 4.1 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.1 | 6.4 |
| 74 | 3.6 | 3.8 | 3.9 | 4.1 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.1 | 6.4 |
| 75 | 3.6 | 3.8 | 3.9 | 4.1 | 4.5 | 4.9 | 5.3 | 5.6 | 5.9 | 6.1 | 6.3 |
| 76 | 3.6 | 3.8 | 3.9 | 4.1 | 4.5 | 4.8 | 5.3 | 5.6 | 5.9 | 6.1 | 6.3 |
| 77 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.9 | 6.1 | 6.3 |
| 78 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.9 | 6.1 | 6.3 |
| 79 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.9 | 6.1 | 6.3 |
| 80 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.8 | 6.1 | 6.3 |
| 81 | 3.6 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.8 | 6.0 | 6.3 |
| 82 | 3.6 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.8 | 6.0 | 6.3 |
| 83 | 3.6 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.8 | 6.0 | 6.3 |
| 84 | 3.5 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.8 | 6.0 | 6.3 |
| 85 | 3.5 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.8 | 6.0 | 6.3 |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S9. Heart rate-related Ris for cardiac output (liter/minute): Females** | | | | | | | | | | | |
| **Heart rate [bpm]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 41 | 3.1 | 3.3 | 3.4 | 3.5 | 3.8 | 4.1 | 4.4 | 4.7 | 4.9 | 5.0 | 5.2 |
| 42 | 3.2 | 3.3 | 3.4 | 3.6 | 3.8 | 4.1 | 4.4 | 4.7 | 4.9 | 5.1 | 5.3 |
| 43 | 3.2 | 3.3 | 3.4 | 3.6 | 3.9 | 4.2 | 4.5 | 4.8 | 5.0 | 5.2 | 5.4 |
| 44 | 3.2 | 3.3 | 3.5 | 3.6 | 3.9 | 4.2 | 4.6 | 4.9 | 5.1 | 5.3 | 5.5 |
| 45 | 3.2 | 3.4 | 3.5 | 3.7 | 3.9 | 4.3 | 4.6 | 5.0 | 5.2 | 5.4 | 5.6 |
| 46 | 3.2 | 3.4 | 3.5 | 3.7 | 4.0 | 4.3 | 4.7 | 5.0 | 5.3 | 5.5 | 5.7 |
| 47 | 3.3 | 3.4 | 3.5 | 3.7 | 4.0 | 4.3 | 4.7 | 5.1 | 5.3 | 5.5 | 5.8 |
| 48 | 3.3 | 3.4 | 3.6 | 3.7 | 4.0 | 4.4 | 4.8 | 5.2 | 5.4 | 5.6 | 5.9 |
| 49 | 3.3 | 3.4 | 3.6 | 3.8 | 4.1 | 4.4 | 4.8 | 5.2 | 5.5 | 5.7 | 6.0 |
| 50 | 3.3 | 3.5 | 3.6 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.5 | 5.8 | 6.0 |
| 51 | 3.3 | 3.5 | 3.6 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.6 | 5.8 | 6.1 |
| 52 | 3.3 | 3.5 | 3.6 | 3.8 | 4.1 | 4.5 | 5.0 | 5.4 | 5.6 | 5.9 | 6.2 |
| 53 | 3.3 | 3.5 | 3.7 | 3.8 | 4.2 | 4.6 | 5.0 | 5.4 | 5.7 | 5.9 | 6.2 |
| 54 | 3.3 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.0 | 5.5 | 5.7 | 6.0 | 6.3 |
| 55 | 3.4 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.1 | 5.5 | 5.8 | 6.1 | 6.4 |
| 56 | 3.4 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.1 | 5.6 | 5.8 | 6.1 | 6.4 |
| 57 | 3.4 | 3.6 | 3.7 | 3.9 | 4.3 | 4.7 | 5.1 | 5.6 | 5.9 | 6.1 | 6.5 |
| 58 | 3.4 | 3.6 | 3.7 | 3.9 | 4.3 | 4.7 | 5.2 | 5.6 | 5.9 | 6.2 | 6.5 |
| 59 | 3.4 | 3.6 | 3.7 | 3.9 | 4.3 | 4.7 | 5.2 | 5.7 | 6.0 | 6.2 | 6.6 |
| 60 | 3.4 | 3.6 | 3.7 | 3.9 | 4.3 | 4.7 | 5.2 | 5.7 | 6.0 | 6.3 | 6.6 |
| 61 | 3.4 | 3.6 | 3.7 | 3.9 | 4.3 | 4.8 | 5.2 | 5.7 | 6.0 | 6.3 | 6.6 |
| 62 | 3.4 | 3.6 | 3.8 | 4.0 | 4.3 | 4.8 | 5.3 | 5.7 | 6.1 | 6.3 | 6.7 |
| 63 | 3.4 | 3.6 | 3.8 | 4.0 | 4.3 | 4.8 | 5.3 | 5.8 | 6.1 | 6.4 | 6.7 |
| 64 | 3.4 | 3.6 | 3.8 | 4.0 | 4.3 | 4.8 | 5.3 | 5.8 | 6.1 | 6.4 | 6.7 |
| 65 | 3.4 | 3.6 | 3.8 | 4.0 | 4.3 | 4.8 | 5.3 | 5.8 | 6.1 | 6.4 | 6.8 |
| 66 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.3 | 5.8 | 6.1 | 6.4 | 6.8 |
| 67 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 |
| 68 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.3 | 5.9 | 6.2 | 6.5 | 6.8 |
| 69 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 70 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 71 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 72 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 73 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 74 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 75 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 76 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 77 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 78 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 79 | 3.4 | 3.6 | 3.7 | 4.0 | 4.3 | 4.8 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 80 | 3.4 | 3.6 | 3.7 | 4.0 | 4.3 | 4.8 | 5.3 | 5.9 | 6.2 | 6.5 | 6.9 |
| 81 | 3.4 | 3.6 | 3.7 | 3.9 | 4.3 | 4.8 | 5.3 | 5.9 | 6.2 | 6.5 | 6.9 |
| 82 | 3.4 | 3.5 | 3.7 | 3.9 | 4.3 | 4.8 | 5.3 | 5.9 | 6.2 | 6.5 | 6.9 |
| 83 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.8 | 5.3 | 5.8 | 6.2 | 6.5 | 6.9 |
| 84 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.8 | 5.3 | 5.8 | 6.2 | 6.5 | 6.9 |
| 85 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.8 | 5.3 | 5.8 | 6.2 | 6.5 | 6.8 |
| 86 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.8 | 5.3 | 5.8 | 6.1 | 6.4 | 6.8 |
| 87 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.7 | 5.3 | 5.8 | 6.1 | 6.4 | 6.8 |
| 88 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.7 | 5.3 | 5.8 | 6.1 | 6.4 | 6.8 |
| 89 | 3.3 | 3.5 | 3.7 | 3.9 | 4.2 | 4.7 | 5.2 | 5.7 | 6.1 | 6.4 | 6.8 |
| 90 | 3.3 | 3.5 | 3.6 | 3.9 | 4.2 | 4.7 | 5.2 | 5.7 | 6.1 | 6.4 | 6.7 |
| 91 | 3.3 | 3.5 | 3.6 | 3.8 | 4.2 | 4.7 | 5.2 | 5.7 | 6.0 | 6.3 | 6.7 |
| 92 | 3.3 | 3.5 | 3.6 | 3.8 | 4.2 | 4.7 | 5.2 | 5.7 | 6.0 | 6.3 | 6.7 |
| 93 | 3.3 | 3.4 | 3.6 | 3.8 | 4.2 | 4.7 | 5.2 | 5.7 | 6.0 | 6.3 | 6.7 |
| 94 | 3.2 | 3.4 | 3.6 | 3.8 | 4.2 | 4.6 | 5.1 | 5.6 | 6.0 | 6.3 | 6.6 |
| 95 | 3.2 | 3.4 | 3.6 | 3.8 | 4.2 | 4.6 | 5.1 | 5.6 | 5.9 | 6.2 | 6.6 |
| 96 | 3.2 | 3.4 | 3.6 | 3.8 | 4.1 | 4.6 | 5.1 | 5.6 | 5.9 | 6.2 | 6.6 |
| 97 | 3.2 | 3.4 | 3.6 | 3.8 | 4.1 | 4.6 | 5.1 | 5.6 | 5.9 | 6.2 | 6.5 |
| 98 | 3.2 | 3.4 | 3.5 | 3.7 | 4.1 | 4.6 | 5.0 | 5.5 | 5.9 | 6.1 | 6.5 |
| 99 | 3.2 | 3.4 | 3.5 | 3.7 | 4.1 | 4.5 | 5.0 | 5.5 | 5.8 | 6.1 | 6.5 |
| 100 | 3.2 | 3.4 | 3.5 | 3.7 | 4.1 | 4.5 | 5.0 | 5.5 | 5.8 | 6.1 | 6.4 |
| 101 | 3.2 | 3.3 | 3.5 | 3.7 | 4.1 | 4.5 | 5.0 | 5.5 | 5.8 | 6.0 | 6.4 |
| 102 | 3.2 | 3.3 | 3.5 | 3.7 | 4.0 | 4.5 | 4.9 | 5.4 | 5.7 | 6.0 | 6.3 |
| 103 | 3.1 | 3.3 | 3.5 | 3.7 | 4.0 | 4.4 | 4.9 | 5.4 | 5.7 | 6.0 | 6.3 |
| 104 | 3.1 | 3.3 | 3.5 | 3.7 | 4.0 | 4.4 | 4.9 | 5.4 | 5.7 | 5.9 | 6.3 |
| 105 | 3.1 | 3.3 | 3.4 | 3.6 | 4.0 | 4.4 | 4.9 | 5.3 | 5.6 | 5.9 | 6.2 |
| 106 | 3.1 | 3.3 | 3.4 | 3.6 | 4.0 | 4.4 | 4.8 | 5.3 | 5.6 | 5.9 | 6.2 |
| 107 | 3.1 | 3.3 | 3.4 | 3.6 | 3.9 | 4.4 | 4.8 | 5.3 | 5.6 | 5.8 | 6.1 |
| 108 | 3.1 | 3.2 | 3.4 | 3.6 | 3.9 | 4.3 | 4.8 | 5.2 | 5.5 | 5.8 | 6.1 |
| 109 | 3.1 | 3.2 | 3.4 | 3.6 | 3.9 | 4.3 | 4.8 | 5.2 | 5.5 | 5.7 | 6.1 |
| 110 | 3.0 | 3.2 | 3.4 | 3.5 | 3.9 | 4.3 | 4.7 | 5.2 | 5.4 | 5.7 | 6.0 |
| 111 | 3.0 | 3.2 | 3.3 | 3.5 | 3.9 | 4.3 | 4.7 | 5.1 | 5.4 | 5.7 | 6.0 |
| 112 | 3.0 | 3.2 | 3.3 | 3.5 | 3.8 | 4.2 | 4.7 | 5.1 | 5.4 | 5.6 | 5.9 |
| 113 | 3.0 | 3.2 | 3.3 | 3.5 | 3.8 | 4.2 | 4.6 | 5.1 | 5.3 | 5.6 | 5.9 |
| 114 | 3.0 | 3.1 | 3.3 | 3.5 | 3.8 | 4.2 | 4.6 | 5.0 | 5.3 | 5.5 | 5.8 |
| 115 | 3.0 | 3.1 | 3.3 | 3.5 | 3.8 | 4.1 | 4.6 | 5.0 | 5.3 | 5.5 | 5.8 |
| 116 | 3.0 | 3.1 | 3.3 | 3.4 | 3.7 | 4.1 | 4.5 | 5.0 | 5.2 | 5.5 | 5.7 |
| 117 | 2.9 | 3.1 | 3.2 | 3.4 | 3.7 | 4.1 | 4.5 | 4.9 | 5.2 | 5.4 | 5.7 |
| 118 | 2.9 | 3.1 | 3.2 | 3.4 | 3.7 | 4.1 | 4.5 | 4.9 | 5.1 | 5.4 | 5.7 |
| 119 | 2.9 | 3.1 | 3.2 | 3.4 | 3.7 | 4.0 | 4.4 | 4.8 | 5.1 | 5.3 | 5.6 |
| 120 | 2.9 | 3.1 | 3.2 | 3.4 | 3.7 | 4.0 | 4.4 | 4.8 | 5.1 | 5.3 | 5.6 |
| 121 | 2.9 | 3.0 | 3.2 | 3.3 | 3.6 | 4.0 | 4.4 | 4.8 | 5.0 | 5.2 | 5.5 |
| 122 | 2.9 | 3.0 | 3.2 | 3.3 | 3.6 | 4.0 | 4.3 | 4.7 | 5.0 | 5.2 | 5.5 |
| 123 | 2.9 | 3.0 | 3.1 | 3.3 | 3.6 | 3.9 | 4.3 | 4.7 | 4.9 | 5.1 | 5.4 |
| 124 | 2.8 | 3.0 | 3.1 | 3.3 | 3.6 | 3.9 | 4.3 | 4.7 | 4.9 | 5.1 | 5.4 |
| 125 | 2.8 | 3.0 | 3.1 | 3.3 | 3.5 | 3.9 | 4.2 | 4.6 | 4.8 | 5.1 | 5.3 |
| 126 | 2.8 | 3.0 | 3.1 | 3.2 | 3.5 | 3.8 | 4.2 | 4.6 | 4.8 | 5.0 | 5.3 |
| 127 | 2.8 | 2.9 | 3.1 | 3.2 | 3.5 | 3.8 | 4.2 | 4.5 | 4.8 | 5.0 | 5.2 |
| 128 | 2.8 | 2.9 | 3.0 | 3.2 | 3.5 | 3.8 | 4.1 | 4.5 | 4.7 | 4.9 | 5.2 |
| 129 | 2.8 | 2.9 | 3.0 | 3.2 | 3.4 | 3.8 | 4.1 | 4.5 | 4.7 | 4.9 | 5.1 |
| 130 | 2.7 | 2.9 | 3.0 | 3.2 | 3.4 | 3.7 | 4.1 | 4.4 | 4.6 | 4.8 | 5.1 |
| 131 | 2.7 | 2.9 | 3.0 | 3.1 | 3.4 | 3.7 | 4.0 | 4.4 | 4.6 | 4.8 | 5.0 |
| 132 | 2.7 | 2.8 | 3.0 | 3.1 | 3.4 | 3.7 | 4.0 | 4.3 | 4.6 | 4.7 | 5.0 |
| 133 | 2.7 | 2.8 | 2.9 | 3.1 | 3.3 | 3.6 | 4.0 | 4.3 | 4.5 | 4.7 | 4.9 |
| 134 | 2.7 | 2.8 | 2.9 | 3.1 | 3.3 | 3.6 | 3.9 | 4.3 | 4.5 | 4.6 | 4.9 |
| 135 | 2.7 | 2.8 | 2.9 | 3.0 | 3.3 | 3.6 | 3.9 | 4.2 | 4.4 | 4.6 | 4.8 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S10. Heart rate-related Ris for cardiac output (liter/minute): Males** | | | | | | | | | | | |
| **Heart rate [bpm]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 44 | 3.5 | 3.6 | 3.7 | 3.9 | 4.1 | 4.4 | 4.7 | 5.0 | 5.1 | 5.3 | 5.5 |
| 45 | 3.5 | 3.6 | 3.8 | 3.9 | 4.2 | 4.5 | 4.8 | 5.1 | 5.3 | 5.4 | 5.6 |
| 46 | 3.5 | 3.7 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.2 | 5.4 | 5.5 | 5.7 |
| 47 | 3.5 | 3.7 | 3.8 | 4.0 | 4.3 | 4.6 | 4.9 | 5.3 | 5.5 | 5.6 | 5.8 |
| 48 | 3.6 | 3.7 | 3.9 | 4.0 | 4.3 | 4.7 | 5.0 | 5.4 | 5.6 | 5.7 | 6.0 |
| 49 | 3.6 | 3.7 | 3.9 | 4.1 | 4.4 | 4.7 | 5.1 | 5.4 | 5.7 | 5.8 | 6.1 |
| 50 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.5 | 5.7 | 5.9 | 6.2 |
| 51 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.8 | 5.2 | 5.6 | 5.8 | 6.0 | 6.3 |
| 52 | 3.6 | 3.8 | 3.9 | 4.1 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.1 | 6.4 |
| 53 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 6.0 | 6.2 | 6.5 |
| 54 | 3.6 | 3.8 | 4.0 | 4.2 | 4.5 | 5.0 | 5.4 | 5.8 | 6.1 | 6.3 | 6.6 |
| 55 | 3.6 | 3.8 | 4.0 | 4.2 | 4.6 | 5.0 | 5.4 | 5.9 | 6.1 | 6.4 | 6.6 |
| 56 | 3.6 | 3.8 | 4.0 | 4.2 | 4.6 | 5.0 | 5.5 | 5.9 | 6.2 | 6.4 | 6.7 |
| 57 | 3.6 | 3.8 | 4.0 | 4.2 | 4.6 | 5.1 | 5.5 | 6.0 | 6.2 | 6.5 | 6.8 |
| 58 | 3.6 | 3.9 | 4.0 | 4.3 | 4.6 | 5.1 | 5.6 | 6.0 | 6.3 | 6.6 | 6.9 |
| 59 | 3.6 | 3.9 | 4.0 | 4.3 | 4.7 | 5.1 | 5.6 | 6.1 | 6.4 | 6.6 | 6.9 |
| 60 | 3.7 | 3.9 | 4.1 | 4.3 | 4.7 | 5.1 | 5.6 | 6.1 | 6.4 | 6.7 | 7.0 |
| 61 | 3.7 | 3.9 | 4.1 | 4.3 | 4.7 | 5.2 | 5.7 | 6.1 | 6.4 | 6.7 | 7.0 |
| 62 | 3.7 | 3.9 | 4.1 | 4.3 | 4.7 | 5.2 | 5.7 | 6.2 | 6.5 | 6.8 | 7.1 |
| 63 | 3.7 | 3.9 | 4.1 | 4.3 | 4.7 | 5.2 | 5.7 | 6.2 | 6.5 | 6.8 | 7.1 |
| 64 | 3.7 | 3.9 | 4.1 | 4.3 | 4.7 | 5.2 | 5.7 | 6.2 | 6.6 | 6.8 | 7.2 |
| 65 | 3.6 | 3.9 | 4.1 | 4.3 | 4.7 | 5.2 | 5.8 | 6.3 | 6.6 | 6.9 | 7.2 |
| 66 | 3.6 | 3.9 | 4.1 | 4.3 | 4.7 | 5.2 | 5.8 | 6.3 | 6.6 | 6.9 | 7.2 |
| 67 | 3.6 | 3.9 | 4.1 | 4.3 | 4.7 | 5.2 | 5.8 | 6.3 | 6.6 | 6.9 | 7.3 |
| 68 | 3.6 | 3.9 | 4.1 | 4.3 | 4.7 | 5.3 | 5.8 | 6.3 | 6.6 | 6.9 | 7.3 |
| 69 | 3.6 | 3.9 | 4.1 | 4.3 | 4.7 | 5.3 | 5.8 | 6.3 | 6.7 | 7.0 | 7.3 |
| 70 | 3.6 | 3.9 | 4.1 | 4.3 | 4.7 | 5.3 | 5.8 | 6.3 | 6.7 | 7.0 | 7.3 |
| 71 | 3.6 | 3.9 | 4.1 | 4.3 | 4.7 | 5.3 | 5.8 | 6.3 | 6.7 | 7.0 | 7.3 |
| 72 | 3.6 | 3.8 | 4.1 | 4.3 | 4.7 | 5.3 | 5.8 | 6.4 | 6.7 | 7.0 | 7.3 |
| 73 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.3 | 5.8 | 6.4 | 6.7 | 7.0 | 7.3 |
| 74 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.3 | 5.8 | 6.4 | 6.7 | 7.0 | 7.3 |
| 75 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.3 | 5.8 | 6.3 | 6.7 | 7.0 | 7.3 |
| 76 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.2 | 5.8 | 6.3 | 6.7 | 7.0 | 7.3 |
| 77 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.2 | 5.8 | 6.3 | 6.7 | 7.0 | 7.3 |
| 78 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.2 | 5.8 | 6.3 | 6.7 | 7.0 | 7.3 |
| 79 | 3.6 | 3.8 | 4.0 | 4.2 | 4.7 | 5.2 | 5.8 | 6.3 | 6.6 | 6.9 | 7.3 |
| 80 | 3.5 | 3.8 | 4.0 | 4.2 | 4.7 | 5.2 | 5.8 | 6.3 | 6.6 | 6.9 | 7.3 |
| 81 | 3.5 | 3.8 | 4.0 | 4.2 | 4.7 | 5.2 | 5.7 | 6.3 | 6.6 | 6.9 | 7.3 |
| 82 | 3.5 | 3.7 | 4.0 | 4.2 | 4.6 | 5.2 | 5.7 | 6.3 | 6.6 | 6.9 | 7.3 |
| 83 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.1 | 5.7 | 6.2 | 6.6 | 6.9 | 7.2 |
| 84 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.1 | 5.7 | 6.2 | 6.5 | 6.8 | 7.2 |
| 85 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.1 | 5.7 | 6.2 | 6.5 | 6.8 | 7.2 |
| 86 | 3.5 | 3.7 | 3.9 | 4.1 | 4.6 | 5.1 | 5.6 | 6.2 | 6.5 | 6.8 | 7.1 |
| 87 | 3.4 | 3.7 | 3.9 | 4.1 | 4.6 | 5.1 | 5.6 | 6.1 | 6.5 | 6.8 | 7.1 |
| 88 | 3.4 | 3.7 | 3.9 | 4.1 | 4.5 | 5.0 | 5.6 | 6.1 | 6.4 | 6.7 | 7.1 |
| 89 | 3.4 | 3.6 | 3.8 | 4.1 | 4.5 | 5.0 | 5.6 | 6.1 | 6.4 | 6.7 | 7.0 |
| 90 | 3.4 | 3.6 | 3.8 | 4.1 | 4.5 | 5.0 | 5.5 | 6.0 | 6.4 | 6.6 | 7.0 |
| 91 | 3.4 | 3.6 | 3.8 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.3 | 6.6 | 6.9 |
| 92 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.9 | 5.5 | 6.0 | 6.3 | 6.6 | 6.9 |
| 93 | 3.4 | 3.6 | 3.8 | 4.0 | 4.4 | 4.9 | 5.4 | 5.9 | 6.2 | 6.5 | 6.9 |
| 94 | 3.3 | 3.6 | 3.7 | 4.0 | 4.4 | 4.9 | 5.4 | 5.9 | 6.2 | 6.5 | 6.8 |
| 95 | 3.3 | 3.5 | 3.7 | 4.0 | 4.4 | 4.8 | 5.4 | 5.8 | 6.2 | 6.4 | 6.8 |
| 96 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.8 | 5.3 | 5.8 | 6.1 | 6.4 | 6.7 |
| 97 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.8 | 5.3 | 5.8 | 6.1 | 6.3 | 6.7 |
| 98 | 3.3 | 3.5 | 3.7 | 3.9 | 4.3 | 4.7 | 5.2 | 5.7 | 6.0 | 6.3 | 6.6 |
| 99 | 3.3 | 3.5 | 3.6 | 3.9 | 4.3 | 4.7 | 5.2 | 5.7 | 6.0 | 6.2 | 6.5 |
| 100 | 3.2 | 3.4 | 3.6 | 3.8 | 4.2 | 4.7 | 5.2 | 5.6 | 5.9 | 6.2 | 6.5 |
| 101 | 3.2 | 3.4 | 3.6 | 3.8 | 4.2 | 4.6 | 5.1 | 5.6 | 5.9 | 6.1 | 6.4 |
| 102 | 3.2 | 3.4 | 3.6 | 3.8 | 4.2 | 4.6 | 5.1 | 5.5 | 5.8 | 6.1 | 6.4 |
| 103 | 3.2 | 3.4 | 3.6 | 3.8 | 4.1 | 4.6 | 5.0 | 5.5 | 5.8 | 6.0 | 6.3 |
| 104 | 3.2 | 3.4 | 3.5 | 3.7 | 4.1 | 4.5 | 5.0 | 5.4 | 5.7 | 6.0 | 6.2 |
| 105 | 3.1 | 3.3 | 3.5 | 3.7 | 4.1 | 4.5 | 5.0 | 5.4 | 5.7 | 5.9 | 6.2 |
| 106 | 3.1 | 3.3 | 3.5 | 3.7 | 4.0 | 4.5 | 4.9 | 5.3 | 5.6 | 5.8 | 6.1 |
| 107 | 3.1 | 3.3 | 3.5 | 3.7 | 4.0 | 4.4 | 4.9 | 5.3 | 5.5 | 5.8 | 6.1 |
| 108 | 3.1 | 3.3 | 3.4 | 3.6 | 4.0 | 4.4 | 4.8 | 5.2 | 5.5 | 5.7 | 6.0 |
| 109 | 3.1 | 3.2 | 3.4 | 3.6 | 3.9 | 4.3 | 4.8 | 5.2 | 5.4 | 5.7 | 5.9 |
| 110 | 3.0 | 3.2 | 3.4 | 3.6 | 3.9 | 4.3 | 4.7 | 5.1 | 5.4 | 5.6 | 5.9 |
| 111 | 3.0 | 3.2 | 3.4 | 3.5 | 3.9 | 4.3 | 4.7 | 5.1 | 5.3 | 5.5 | 5.8 |
| 112 | 3.0 | 3.2 | 3.3 | 3.5 | 3.8 | 4.2 | 4.6 | 5.0 | 5.2 | 5.5 | 5.7 |
| 113 | 3.0 | 3.2 | 3.3 | 3.5 | 3.8 | 4.2 | 4.6 | 5.0 | 5.2 | 5.4 | 5.6 |
| 114 | 3.0 | 3.1 | 3.3 | 3.5 | 3.8 | 4.1 | 4.5 | 4.9 | 5.1 | 5.3 | 5.6 |
| 115 | 2.9 | 3.1 | 3.3 | 3.4 | 3.7 | 4.1 | 4.5 | 4.8 | 5.1 | 5.3 | 5.5 |
| 116 | 2.9 | 3.1 | 3.2 | 3.4 | 3.7 | 4.0 | 4.4 | 4.8 | 5.0 | 5.2 | 5.4 |
| 117 | 2.9 | 3.1 | 3.2 | 3.4 | 3.7 | 4.0 | 4.4 | 4.7 | 4.9 | 5.1 | 5.4 |
| 118 | 2.9 | 3.0 | 3.2 | 3.3 | 3.6 | 4.0 | 4.3 | 4.7 | 4.9 | 5.1 | 5.3 |
| 119 | 2.9 | 3.0 | 3.1 | 3.3 | 3.6 | 3.9 | 4.3 | 4.6 | 4.8 | 5.0 | 5.2 |
| 120 | 2.8 | 3.0 | 3.1 | 3.3 | 3.6 | 3.9 | 4.2 | 4.5 | 4.7 | 4.9 | 5.1 |
| 121 | 2.8 | 3.0 | 3.1 | 3.2 | 3.5 | 3.8 | 4.2 | 4.5 | 4.7 | 4.9 | 5.1 |
| 122 | 2.8 | 2.9 | 3.1 | 3.2 | 3.5 | 3.8 | 4.1 | 4.4 | 4.6 | 4.8 | 5.0 |
| 123 | 2.8 | 2.9 | 3.0 | 3.2 | 3.4 | 3.7 | 4.1 | 4.4 | 4.6 | 4.7 | 4.9 |
| 124 | 2.7 | 2.9 | 3.0 | 3.2 | 3.4 | 3.7 | 4.0 | 4.3 | 4.5 | 4.7 | 4.9 |
| 125 | 2.7 | 2.9 | 3.0 | 3.1 | 3.4 | 3.7 | 4.0 | 4.2 | 4.4 | 4.6 | 4.8 |
| 126 | 2.7 | 2.8 | 3.0 | 3.1 | 3.3 | 3.6 | 3.9 | 4.2 | 4.4 | 4.5 | 4.7 |

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| **Table S11. Body surface area-related Ris for cardiac output (liter/minute): Females** | | | | | | | | | | | |
| **Body surface area [m2]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 0.7 | 3.1 | 3.2 | 3.3 | 3.4 | 3.6 | 3.9 | 4.1 | 4.4 | 4.5 | 4.7 | 4.8 |
| 0.8 | 3.3 | 3.4 | 3.5 | 3.6 | 3.8 | 4.1 | 4.3 | 4.6 | 4.8 | 4.9 | 5.1 |
| 0.9 | 3.4 | 3.5 | 3.6 | 3.8 | 4.0 | 4.3 | 4.5 | 4.8 | 5.0 | 5.2 | 5.3 |
| 1.0 | 3.5 | 3.6 | 3.7 | 3.9 | 4.1 | 4.4 | 4.7 | 5.0 | 5.2 | 5.4 | 5.6 |
| 1.1 | 3.6 | 3.7 | 3.8 | 4.0 | 4.2 | 4.6 | 4.9 | 5.2 | 5.4 | 5.6 | 5.8 |
| 1.2 | 3.6 | 3.8 | 3.9 | 4.1 | 4.3 | 4.7 | 5.0 | 5.4 | 5.6 | 5.8 | 6.0 |
| 1.3 | 3.7 | 3.8 | 4.0 | 4.1 | 4.4 | 4.8 | 5.1 | 5.5 | 5.7 | 5.9 | 6.2 |
| 1.4 | 3.7 | 3.9 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.6 | 5.9 | 6.1 | 6.4 |
| 1.5 | 3.7 | 3.9 | 4.0 | 4.2 | 4.5 | 4.9 | 5.4 | 5.8 | 6.0 | 6.3 | 6.6 |
| 1.6 | 3.7 | 3.9 | 4.0 | 4.2 | 4.6 | 5.0 | 5.4 | 5.9 | 6.2 | 6.4 | 6.7 |
| 1.7 | 3.7 | 3.8 | 4.0 | 4.2 | 4.6 | 5.0 | 5.5 | 6.0 | 6.3 | 6.6 | 6.9 |
| 1.8 | 3.6 | 3.8 | 4.0 | 4.2 | 4.6 | 5.1 | 5.6 | 6.1 | 6.4 | 6.7 | 7.1 |
| 1.9 | 3.6 | 3.8 | 4.0 | 4.2 | 4.6 | 5.1 | 5.6 | 6.2 | 6.5 | 6.8 | 7.2 |
| 2.0 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.1 | 5.7 | 6.2 | 6.6 | 7.0 | 7.4 |
| 2.1 | 3.5 | 3.7 | 3.9 | 4.1 | 4.6 | 5.1 | 5.7 | 6.3 | 6.7 | 7.1 | 7.5 |
| 2.2 | 3.4 | 3.6 | 3.8 | 4.1 | 4.5 | 5.1 | 5.7 | 6.4 | 6.8 | 7.2 | 7.7 |
| 2.3 | 3.4 | 3.6 | 3.8 | 4.0 | 4.5 | 5.1 | 5.8 | 6.4 | 6.9 | 7.3 | 7.8 |
| **Table S12. Body surface area-related Ris for cardiac output (liter/minute): Males** | | | | | | | | | | | |
| **Body surface area [m2]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 0.7 | 3.2 | 3.3 | 3.4 | 3.6 | 3.8 | 4.0 | 4.3 | 4.5 | 4.7 | 4.8 | 4.9 |
| 0.8 | 3.4 | 3.5 | 3.6 | 3.8 | 4.0 | 4.3 | 4.6 | 4.9 | 5.0 | 5.2 | 5.4 |
| 0.9 | 3.5 | 3.7 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.2 | 5.4 | 5.6 | 5.8 |
| 1.0 | 3.6 | 3.8 | 3.9 | 4.1 | 4.4 | 4.7 | 5.1 | 5.5 | 5.7 | 5.8 | 6.1 |
| 1.1 | 3.7 | 3.9 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.7 | 5.9 | 6.1 | 6.3 |
| 1.2 | 3.8 | 4.0 | 4.1 | 4.3 | 4.6 | 5.0 | 5.5 | 5.9 | 6.1 | 6.3 | 6.6 |
| 1.3 | 3.8 | 4.0 | 4.2 | 4.4 | 4.7 | 5.1 | 5.6 | 6.0 | 6.3 | 6.5 | 6.7 |
| 1.4 | 3.8 | 4.0 | 4.2 | 4.4 | 4.8 | 5.2 | 5.7 | 6.1 | 6.4 | 6.6 | 6.9 |
| 1.5 | 3.9 | 4.1 | 4.3 | 4.5 | 4.8 | 5.3 | 5.8 | 6.2 | 6.5 | 6.7 | 7.0 |
| 1.6 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.3 | 5.8 | 6.3 | 6.6 | 6.8 | 7.1 |
| 1.7 | 3.9 | 4.1 | 4.3 | 4.5 | 4.9 | 5.4 | 5.9 | 6.3 | 6.6 | 6.9 | 7.2 |
| 1.8 | 3.8 | 4.1 | 4.3 | 4.5 | 4.9 | 5.4 | 5.9 | 6.3 | 6.6 | 6.9 | 7.2 |
| 1.9 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.4 | 5.9 | 6.4 | 6.7 | 6.9 | 7.2 |
| 2.0 | 3.8 | 4.0 | 4.2 | 4.5 | 4.9 | 5.3 | 5.9 | 6.4 | 6.7 | 6.9 | 7.2 |
| 2.1 | 3.8 | 4.0 | 4.2 | 4.4 | 4.8 | 5.3 | 5.8 | 6.3 | 6.6 | 6.9 | 7.2 |
| 2.2 | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 5.3 | 5.8 | 6.3 | 6.6 | 6.9 | 7.2 |
| 2.3 | 3.7 | 3.9 | 4.1 | 4.3 | 4.7 | 5.2 | 5.8 | 6.3 | 6.6 | 6.8 | 7.2 |
| 2.4 | 3.6 | 3.8 | 4.0 | 4.3 | 4.7 | 5.2 | 5.7 | 6.2 | 6.5 | 6.8 | 7.1 |
| 2.5 | 3.6 | 3.8 | 4.0 | 4.2 | 4.6 | 5.1 | 5.6 | 6.1 | 6.5 | 6.7 | 7.1 |
| 2.6 | 3.5 | 3.7 | 3.9 | 4.2 | 4.6 | 5.1 | 5.6 | 6.1 | 6.4 | 6.7 | 7.0 |

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| **Table S13. Age-related Ris for cardiac index [l.min/m2]: Females** | | | | | | | | | | | |
| **Age [years]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 4 | 4.60 | 4.83 | 5.04 | 5.30 | 5.77 | 6.37 | 7.05 | 7.74 | 8.20 | 8.63 | 9.17 |
| 5 | 3.96 | 4.15 | 4.33 | 4.54 | 4.94 | 5.43 | 6.00 | 6.57 | 6.96 | 7.31 | 7.75 |
| 6 | 3.55 | 3.72 | 3.88 | 4.07 | 4.42 | 4.85 | 5.35 | 5.85 | 6.18 | 6.49 | 6.88 |
| 7 | 3.27 | 3.43 | 3.57 | 3.75 | 4.06 | 4.46 | 4.90 | 5.36 | 5.66 | 5.94 | 6.28 |
| 8 | 3.07 | 3.22 | 3.35 | 3.51 | 3.80 | 4.17 | 4.58 | 5.00 | 5.28 | 5.54 | 5.86 |
| 9 | 2.92 | 3.06 | 3.18 | 3.33 | 3.61 | 3.95 | 4.34 | 4.74 | 4.99 | 5.24 | 5.53 |
| 10 | 2.80 | 2.93 | 3.05 | 3.20 | 3.46 | 3.79 | 4.15 | 4.53 | 4.77 | 5.00 | 5.29 |
| 11 | 2.71 | 2.83 | 2.95 | 3.09 | 3.34 | 3.65 | 4.01 | 4.36 | 4.60 | 4.82 | 5.09 |
| 12 | 2.63 | 2.75 | 2.86 | 3.00 | 3.24 | 3.54 | 3.88 | 4.23 | 4.46 | 4.67 | 4.93 |
| 13 | 2.57 | 2.68 | 2.79 | 2.92 | 3.16 | 3.45 | 3.78 | 4.12 | 4.34 | 4.54 | 4.80 |
| 14 | 2.51 | 2.63 | 2.73 | 2.86 | 3.09 | 3.38 | 3.70 | 4.03 | 4.24 | 4.44 | 4.69 |
| 15 | 2.46 | 2.58 | 2.68 | 2.80 | 3.03 | 3.31 | 3.63 | 3.95 | 4.16 | 4.36 | 4.60 |
| 16 | 2.42 | 2.53 | 2.63 | 2.76 | 2.98 | 3.26 | 3.57 | 3.88 | 4.09 | 4.28 | 4.52 |
| 17 | 2.39 | 2.50 | 2.60 | 2.72 | 2.94 | 3.21 | 3.52 | 3.83 | 4.03 | 4.22 | 4.46 |
| 18 | 2.36 | 2.46 | 2.56 | 2.68 | 2.90 | 3.17 | 3.47 | 3.78 | 3.98 | 4.17 | 4.40 |
| 19 | 2.33 | 2.44 | 2.53 | 2.65 | 2.87 | 3.13 | 3.43 | 3.74 | 3.94 | 4.12 | 4.35 |
| 20 | 2.30 | 2.41 | 2.51 | 2.62 | 2.84 | 3.10 | 3.40 | 3.70 | 3.90 | 4.08 | 4.31 |
| 21 | 2.28 | 2.39 | 2.48 | 2.60 | 2.81 | 3.07 | 3.37 | 3.67 | 3.87 | 4.05 | 4.28 |
| 22 | 2.26 | 2.37 | 2.46 | 2.58 | 2.79 | 3.05 | 3.34 | 3.64 | 3.84 | 4.02 | 4.25 |
| 23 | 2.24 | 2.35 | 2.44 | 2.56 | 2.76 | 3.03 | 3.32 | 3.62 | 3.81 | 3.99 | 4.22 |
| 24 | 2.23 | 2.33 | 2.42 | 2.54 | 2.75 | 3.01 | 3.30 | 3.60 | 3.79 | 3.97 | 4.20 |
| 25 | 2.21 | 2.31 | 2.41 | 2.52 | 2.73 | 2.99 | 3.28 | 3.58 | 3.77 | 3.95 | 4.18 |
| 26 | 2.20 | 2.30 | 2.39 | 2.51 | 2.71 | 2.97 | 3.26 | 3.56 | 3.76 | 3.94 | 4.16 |
| 27 | 2.18 | 2.28 | 2.38 | 2.49 | 2.70 | 2.96 | 3.25 | 3.55 | 3.74 | 3.92 | 4.15 |
| 28 | 2.17 | 2.27 | 2.36 | 2.48 | 2.68 | 2.94 | 3.24 | 3.53 | 3.73 | 3.91 | 4.14 |
| 29 | 2.16 | 2.26 | 2.35 | 2.47 | 2.67 | 2.93 | 3.22 | 3.52 | 3.72 | 3.90 | 4.13 |
| 30 | 2.14 | 2.25 | 2.34 | 2.45 | 2.66 | 2.92 | 3.21 | 3.51 | 3.71 | 3.89 | 4.12 |
| 31 | 2.13 | 2.24 | 2.33 | 2.44 | 2.65 | 2.91 | 3.20 | 3.50 | 3.70 | 3.89 | 4.12 |
| 32 | 2.12 | 2.22 | 2.32 | 2.43 | 2.64 | 2.90 | 3.20 | 3.50 | 3.70 | 3.88 | 4.11 |
| 33 | 2.11 | 2.21 | 2.31 | 2.42 | 2.63 | 2.89 | 3.19 | 3.49 | 3.69 | 3.88 | 4.11 |
| 34 | 2.10 | 2.20 | 2.30 | 2.41 | 2.62 | 2.88 | 3.18 | 3.48 | 3.68 | 3.87 | 4.11 |
| 35 | 2.09 | 2.19 | 2.29 | 2.40 | 2.61 | 2.88 | 3.17 | 3.48 | 3.68 | 3.87 | 4.10 |
| 36 | 2.08 | 2.19 | 2.28 | 2.39 | 2.60 | 2.87 | 3.17 | 3.47 | 3.68 | 3.87 | 4.10 |
| 37 | 2.07 | 2.18 | 2.27 | 2.39 | 2.60 | 2.86 | 3.16 | 3.47 | 3.68 | 3.87 | 4.10 |
| 38 | 2.06 | 2.17 | 2.26 | 2.38 | 2.59 | 2.85 | 3.16 | 3.47 | 3.67 | 3.87 | 4.11 |
| 39 | 2.06 | 2.16 | 2.25 | 2.37 | 2.58 | 2.85 | 3.15 | 3.47 | 3.67 | 3.87 | 4.11 |
| 40 | 2.05 | 2.15 | 2.24 | 2.36 | 2.57 | 2.84 | 3.15 | 3.46 | 3.67 | 3.87 | 4.11 |
| 41 | 2.04 | 2.14 | 2.24 | 2.35 | 2.57 | 2.84 | 3.14 | 3.46 | 3.67 | 3.87 | 4.11 |
| 42 | 2.03 | 2.13 | 2.23 | 2.35 | 2.56 | 2.83 | 3.14 | 3.46 | 3.67 | 3.87 | 4.12 |
| 43 | 2.02 | 2.12 | 2.22 | 2.34 | 2.55 | 2.82 | 3.14 | 3.46 | 3.67 | 3.87 | 4.12 |
| 44 | 2.01 | 2.12 | 2.21 | 2.33 | 2.55 | 2.82 | 3.13 | 3.46 | 3.67 | 3.87 | 4.13 |
| 45 | 2.00 | 2.11 | 2.20 | 2.32 | 2.54 | 2.81 | 3.13 | 3.46 | 3.67 | 3.88 | 4.13 |
| 46 | 1.99 | 2.10 | 2.20 | 2.31 | 2.53 | 2.81 | 3.13 | 3.46 | 3.67 | 3.88 | 4.14 |
| 47 | 1.99 | 2.09 | 2.19 | 2.31 | 2.53 | 2.80 | 3.12 | 3.46 | 3.68 | 3.88 | 4.14 |
| 48 | 1.98 | 2.08 | 2.18 | 2.30 | 2.52 | 2.80 | 3.12 | 3.46 | 3.68 | 3.89 | 4.15 |
| 49 | 1.97 | 2.07 | 2.17 | 2.29 | 2.51 | 2.79 | 3.12 | 3.45 | 3.68 | 3.89 | 4.16 |
| 50 | 1.96 | 2.07 | 2.16 | 2.28 | 2.51 | 2.79 | 3.12 | 3.45 | 3.68 | 3.89 | 4.16 |
| 51 | 1.95 | 2.06 | 2.16 | 2.28 | 2.50 | 2.78 | 3.11 | 3.45 | 3.68 | 3.90 | 4.17 |
| 52 | 1.94 | 2.05 | 2.15 | 2.27 | 2.49 | 2.78 | 3.11 | 3.45 | 3.69 | 3.90 | 4.18 |
| 53 | 1.93 | 2.04 | 2.14 | 2.26 | 2.49 | 2.77 | 3.11 | 3.46 | 3.69 | 3.91 | 4.18 |
| 54 | 1.93 | 2.03 | 2.13 | 2.25 | 2.48 | 2.77 | 3.11 | 3.46 | 3.69 | 3.91 | 4.19 |
| 55 | 1.92 | 2.02 | 2.12 | 2.25 | 2.47 | 2.76 | 3.10 | 3.46 | 3.69 | 3.92 | 4.20 |
| 56 | 1.91 | 2.02 | 2.12 | 2.24 | 2.47 | 2.76 | 3.10 | 3.46 | 3.69 | 3.92 | 4.21 |
| 57 | 1.90 | 2.01 | 2.11 | 2.23 | 2.46 | 2.75 | 3.10 | 3.46 | 3.70 | 3.93 | 4.21 |
| 58 | 1.89 | 2.00 | 2.10 | 2.22 | 2.45 | 2.75 | 3.09 | 3.46 | 3.70 | 3.93 | 4.22 |
| 59 | 1.88 | 1.99 | 2.09 | 2.22 | 2.45 | 2.74 | 3.09 | 3.46 | 3.70 | 3.93 | 4.23 |
| 60 | 1.87 | 1.98 | 2.08 | 2.21 | 2.44 | 2.74 | 3.09 | 3.46 | 3.70 | 3.94 | 4.24 |
| 61 | 1.86 | 1.97 | 2.07 | 2.20 | 2.43 | 2.73 | 3.09 | 3.46 | 3.71 | 3.94 | 4.25 |
| 62 | 1.85 | 1.96 | 2.07 | 2.19 | 2.43 | 2.73 | 3.08 | 3.46 | 3.71 | 3.95 | 4.25 |
| 63 | 1.85 | 1.96 | 2.06 | 2.18 | 2.42 | 2.72 | 3.08 | 3.46 | 3.71 | 3.95 | 4.26 |
| 64 | 1.84 | 1.95 | 2.05 | 2.18 | 2.41 | 2.72 | 3.08 | 3.46 | 3.71 | 3.96 | 4.27 |
| 65 | 1.83 | 1.94 | 2.04 | 2.17 | 2.40 | 2.71 | 3.07 | 3.46 | 3.72 | 3.96 | 4.28 |
| 66 | 1.82 | 1.93 | 2.03 | 2.16 | 2.40 | 2.71 | 3.07 | 3.46 | 3.72 | 3.97 | 4.29 |
| 67 | 1.81 | 1.92 | 2.02 | 2.15 | 2.39 | 2.70 | 3.07 | 3.46 | 3.72 | 3.97 | 4.30 |
| 68 | 1.80 | 1.91 | 2.01 | 2.14 | 2.38 | 2.69 | 3.06 | 3.46 | 3.72 | 3.98 | 4.30 |
| 69 | 1.79 | 1.90 | 2.00 | 2.13 | 2.37 | 2.69 | 3.06 | 3.46 | 3.72 | 3.98 | 4.31 |
| 70 | 1.78 | 1.89 | 2.00 | 2.13 | 2.37 | 2.68 | 3.06 | 3.45 | 3.73 | 3.99 | 4.32 |
| 71 | 1.77 | 1.88 | 1.99 | 2.12 | 2.36 | 2.68 | 3.05 | 3.45 | 3.73 | 3.99 | 4.33 |
| 72 | 1.76 | 1.87 | 1.98 | 2.11 | 2.35 | 2.67 | 3.05 | 3.45 | 3.73 | 3.99 | 4.34 |
| 73 | 1.75 | 1.86 | 1.97 | 2.10 | 2.34 | 2.66 | 3.05 | 3.45 | 3.73 | 4.00 | 4.34 |
| 74 | 1.74 | 1.85 | 1.96 | 2.09 | 2.34 | 2.66 | 3.04 | 3.45 | 3.73 | 4.00 | 4.35 |
| 75 | 1.73 | 1.84 | 1.95 | 2.08 | 2.33 | 2.65 | 3.04 | 3.45 | 3.73 | 4.01 | 4.36 |
| 76 | 1.72 | 1.84 | 1.94 | 2.07 | 2.32 | 2.64 | 3.03 | 3.45 | 3.74 | 4.01 | 4.37 |
| 77 | 1.71 | 1.83 | 1.93 | 2.06 | 2.31 | 2.64 | 3.03 | 3.45 | 3.74 | 4.02 | 4.37 |
| 78 | 1.70 | 1.82 | 1.92 | 2.05 | 2.30 | 2.63 | 3.02 | 3.45 | 3.74 | 4.02 | 4.38 |
| 79 | 1.69 | 1.81 | 1.91 | 2.05 | 2.30 | 2.62 | 3.02 | 3.45 | 3.74 | 4.02 | 4.39 |
| 80 | 1.68 | 1.80 | 1.90 | 2.04 | 2.29 | 2.62 | 3.02 | 3.44 | 3.74 | 4.03 | 4.40 |
| 81 | 1.67 | 1.79 | 1.89 | 2.03 | 2.28 | 2.61 | 3.01 | 3.44 | 3.74 | 4.03 | 4.40 |
| 82 | 1.66 | 1.78 | 1.88 | 2.02 | 2.27 | 2.60 | 3.01 | 3.44 | 3.74 | 4.03 | 4.41 |
| 83 | 1.65 | 1.77 | 1.87 | 2.01 | 2.26 | 2.60 | 3.00 | 3.44 | 3.74 | 4.04 | 4.42 |
| 84 | 1.64 | 1.76 | 1.86 | 2.00 | 2.25 | 2.59 | 3.00 | 3.44 | 3.74 | 4.04 | 4.43 |
| 85 | 1.63 | 1.75 | 1.85 | 1.99 | 2.24 | 2.58 | 2.99 | 3.43 | 3.74 | 4.04 | 4.43 |
| 86 | 1.62 | 1.74 | 1.85 | 1.98 | 2.23 | 2.57 | 2.98 | 3.43 | 3.74 | 4.05 | 4.44 |
| 87 | 1.61 | 1.73 | 1.84 | 1.97 | 2.23 | 2.57 | 2.98 | 3.43 | 3.74 | 4.05 | 4.45 |
| 88 | 1.60 | 1.72 | 1.83 | 1.96 | 2.22 | 2.56 | 2.97 | 3.43 | 3.74 | 4.05 | 4.45 |

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| **Table S14. Age-related Ris for cardiac index [l.min/m2]: Males** | | | | | | | | | | | |
| **Age [years]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 5 | 4.04 | 4.24 | 4.42 | 4.64 | 5.04 | 5.55 | 6.13 | 6.73 | 7.13 | 7.51 | 7.97 |
| 6 | 3.59 | 3.77 | 3.94 | 4.15 | 4.53 | 5.02 | 5.58 | 6.16 | 6.55 | 6.92 | 7.38 |
| 7 | 3.28 | 3.45 | 3.61 | 3.81 | 4.17 | 4.63 | 5.17 | 5.73 | 6.11 | 6.47 | 6.92 |
| 8 | 3.05 | 3.21 | 3.36 | 3.55 | 3.89 | 4.34 | 4.86 | 5.40 | 5.76 | 6.11 | 6.54 |
| 9 | 2.87 | 3.03 | 3.17 | 3.35 | 3.68 | 4.11 | 4.60 | 5.13 | 5.48 | 5.81 | 6.24 |
| 10 | 2.73 | 2.88 | 3.02 | 3.19 | 3.51 | 3.92 | 4.40 | 4.90 | 5.24 | 5.57 | 5.98 |
| 11 | 2.61 | 2.76 | 2.89 | 3.06 | 3.37 | 3.76 | 4.23 | 4.71 | 5.04 | 5.36 | 5.76 |
| 12 | 2.52 | 2.66 | 2.79 | 2.95 | 3.25 | 3.63 | 4.08 | 4.55 | 4.87 | 5.17 | 5.56 |
| 13 | 2.44 | 2.58 | 2.70 | 2.86 | 3.15 | 3.52 | 3.95 | 4.41 | 4.72 | 5.02 | 5.39 |
| 14 | 2.37 | 2.50 | 2.63 | 2.78 | 3.06 | 3.42 | 3.84 | 4.29 | 4.59 | 4.88 | 5.24 |
| 15 | 2.31 | 2.44 | 2.56 | 2.71 | 2.98 | 3.33 | 3.75 | 4.18 | 4.47 | 4.75 | 5.11 |
| 16 | 2.26 | 2.39 | 2.50 | 2.65 | 2.92 | 3.26 | 3.66 | 4.08 | 4.37 | 4.64 | 4.99 |
| 17 | 2.22 | 2.34 | 2.45 | 2.60 | 2.86 | 3.19 | 3.59 | 4.00 | 4.28 | 4.54 | 4.88 |
| 18 | 2.18 | 2.30 | 2.41 | 2.55 | 2.80 | 3.13 | 3.52 | 3.92 | 4.19 | 4.45 | 4.78 |
| 19 | 2.14 | 2.26 | 2.37 | 2.51 | 2.76 | 3.08 | 3.46 | 3.85 | 4.12 | 4.37 | 4.69 |
| 20 | 2.11 | 2.23 | 2.34 | 2.47 | 2.71 | 3.03 | 3.40 | 3.79 | 4.05 | 4.30 | 4.61 |
| 21 | 2.08 | 2.20 | 2.30 | 2.43 | 2.68 | 2.99 | 3.35 | 3.73 | 3.99 | 4.23 | 4.54 |
| 22 | 2.06 | 2.17 | 2.28 | 2.40 | 2.64 | 2.95 | 3.30 | 3.68 | 3.93 | 4.17 | 4.47 |
| 23 | 2.04 | 2.15 | 2.25 | 2.38 | 2.61 | 2.91 | 3.26 | 3.63 | 3.87 | 4.11 | 4.41 |
| 24 | 2.02 | 2.13 | 2.23 | 2.35 | 2.58 | 2.88 | 3.22 | 3.58 | 3.82 | 4.05 | 4.35 |
| 25 | 2.00 | 2.11 | 2.20 | 2.33 | 2.55 | 2.85 | 3.19 | 3.54 | 3.78 | 4.01 | 4.29 |
| 26 | 1.98 | 2.09 | 2.18 | 2.31 | 2.53 | 2.82 | 3.15 | 3.50 | 3.74 | 3.96 | 4.24 |
| 27 | 1.96 | 2.07 | 2.17 | 2.29 | 2.51 | 2.79 | 3.12 | 3.47 | 3.70 | 3.92 | 4.20 |
| 28 | 1.95 | 2.05 | 2.15 | 2.27 | 2.49 | 2.77 | 3.09 | 3.43 | 3.66 | 3.88 | 4.15 |
| 29 | 1.94 | 2.04 | 2.14 | 2.25 | 2.47 | 2.75 | 3.07 | 3.40 | 3.63 | 3.84 | 4.11 |
| 30 | 1.93 | 2.03 | 2.12 | 2.24 | 2.45 | 2.72 | 3.04 | 3.37 | 3.60 | 3.81 | 4.07 |
| 31 | 1.91 | 2.02 | 2.11 | 2.22 | 2.43 | 2.71 | 3.02 | 3.35 | 3.57 | 3.78 | 4.04 |
| 32 | 1.90 | 2.00 | 2.10 | 2.21 | 2.42 | 2.69 | 3.00 | 3.32 | 3.54 | 3.75 | 4.01 |
| 33 | 1.89 | 1.99 | 2.09 | 2.20 | 2.41 | 2.67 | 2.98 | 3.30 | 3.52 | 3.72 | 3.98 |
| 34 | 1.89 | 1.98 | 2.07 | 2.19 | 2.39 | 2.66 | 2.96 | 3.28 | 3.49 | 3.69 | 3.95 |
| 35 | 1.88 | 1.98 | 2.07 | 2.18 | 2.38 | 2.64 | 2.94 | 3.26 | 3.47 | 3.67 | 3.92 |
| 36 | 1.87 | 1.97 | 2.06 | 2.17 | 2.37 | 2.63 | 2.93 | 3.24 | 3.45 | 3.65 | 3.89 |
| 37 | 1.86 | 1.96 | 2.05 | 2.16 | 2.36 | 2.62 | 2.91 | 3.22 | 3.43 | 3.62 | 3.87 |
| 38 | 1.86 | 1.95 | 2.04 | 2.15 | 2.35 | 2.60 | 2.90 | 3.21 | 3.41 | 3.60 | 3.85 |
| 39 | 1.85 | 1.95 | 2.03 | 2.14 | 2.34 | 2.59 | 2.89 | 3.19 | 3.39 | 3.59 | 3.83 |
| 40 | 1.85 | 1.94 | 2.03 | 2.14 | 2.33 | 2.58 | 2.88 | 3.18 | 3.38 | 3.57 | 3.81 |
| 41 | 1.84 | 1.94 | 2.02 | 2.13 | 2.33 | 2.58 | 2.86 | 3.16 | 3.36 | 3.55 | 3.79 |
| 42 | 1.84 | 1.93 | 2.02 | 2.12 | 2.32 | 2.57 | 2.85 | 3.15 | 3.35 | 3.54 | 3.77 |
| 43 | 1.83 | 1.93 | 2.01 | 2.12 | 2.31 | 2.56 | 2.84 | 3.14 | 3.34 | 3.52 | 3.76 |
| 44 | 1.83 | 1.92 | 2.01 | 2.11 | 2.31 | 2.55 | 2.84 | 3.13 | 3.33 | 3.51 | 3.74 |
| 45 | 1.82 | 1.92 | 2.00 | 2.11 | 2.30 | 2.54 | 2.83 | 3.12 | 3.32 | 3.50 | 3.73 |
| 46 | 1.82 | 1.91 | 2.00 | 2.10 | 2.29 | 2.54 | 2.82 | 3.11 | 3.31 | 3.49 | 3.72 |
| 47 | 1.82 | 1.91 | 1.99 | 2.10 | 2.29 | 2.53 | 2.81 | 3.10 | 3.30 | 3.48 | 3.71 |
| 48 | 1.81 | 1.91 | 1.99 | 2.09 | 2.29 | 2.53 | 2.81 | 3.09 | 3.29 | 3.47 | 3.70 |
| 49 | 1.81 | 1.90 | 1.99 | 2.09 | 2.28 | 2.52 | 2.80 | 3.09 | 3.28 | 3.46 | 3.69 |
| 50 | 1.81 | 1.90 | 1.99 | 2.09 | 2.28 | 2.52 | 2.79 | 3.08 | 3.27 | 3.45 | 3.68 |
| 51 | 1.81 | 1.90 | 1.98 | 2.09 | 2.27 | 2.51 | 2.79 | 3.07 | 3.27 | 3.44 | 3.67 |
| 52 | 1.81 | 1.90 | 1.98 | 2.08 | 2.27 | 2.51 | 2.79 | 3.07 | 3.26 | 3.44 | 3.66 |
| 53 | 1.80 | 1.89 | 1.98 | 2.08 | 2.27 | 2.51 | 2.78 | 3.06 | 3.25 | 3.43 | 3.66 |
| 54 | 1.80 | 1.89 | 1.98 | 2.08 | 2.27 | 2.50 | 2.78 | 3.06 | 3.25 | 3.43 | 3.65 |
| 55 | 1.80 | 1.89 | 1.97 | 2.08 | 2.26 | 2.50 | 2.77 | 3.06 | 3.25 | 3.42 | 3.65 |
| 56 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.50 | 2.77 | 3.05 | 3.24 | 3.42 | 3.64 |
| 57 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.50 | 2.77 | 3.05 | 3.24 | 3.41 | 3.64 |
| 58 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.49 | 2.77 | 3.05 | 3.24 | 3.41 | 3.63 |
| 59 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.49 | 2.77 | 3.05 | 3.23 | 3.41 | 3.63 |
| 60 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.49 | 2.76 | 3.04 | 3.23 | 3.41 | 3.63 |
| 61 | 1.80 | 1.89 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.04 | 3.23 | 3.41 | 3.63 |
| 62 | 1.79 | 1.88 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.04 | 3.23 | 3.40 | 3.63 |
| 63 | 1.79 | 1.88 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.04 | 3.23 | 3.40 | 3.63 |
| 64 | 1.79 | 1.88 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.04 | 3.23 | 3.40 | 3.63 |
| 65 | 1.79 | 1.88 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.04 | 3.23 | 3.40 | 3.63 |
| 66 | 1.79 | 1.88 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.04 | 3.23 | 3.41 | 3.63 |
| 67 | 1.79 | 1.88 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.04 | 3.23 | 3.41 | 3.63 |
| 68 | 1.79 | 1.88 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.04 | 3.23 | 3.41 | 3.63 |
| 69 | 1.79 | 1.88 | 1.97 | 2.07 | 2.25 | 2.49 | 2.76 | 3.05 | 3.23 | 3.41 | 3.63 |
| 70 | 1.79 | 1.88 | 1.97 | 2.07 | 2.26 | 2.49 | 2.77 | 3.05 | 3.24 | 3.41 | 3.64 |
| 71 | 1.79 | 1.88 | 1.97 | 2.07 | 2.26 | 2.49 | 2.77 | 3.05 | 3.24 | 3.41 | 3.64 |
| 72 | 1.79 | 1.88 | 1.97 | 2.07 | 2.26 | 2.49 | 2.77 | 3.05 | 3.24 | 3.42 | 3.64 |
| 73 | 1.79 | 1.89 | 1.97 | 2.07 | 2.26 | 2.50 | 2.77 | 3.05 | 3.24 | 3.42 | 3.65 |
| 74 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.50 | 2.77 | 3.06 | 3.25 | 3.43 | 3.65 |
| 75 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.50 | 2.78 | 3.06 | 3.25 | 3.43 | 3.66 |
| 76 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.50 | 2.78 | 3.06 | 3.25 | 3.43 | 3.66 |
| 77 | 1.80 | 1.89 | 1.97 | 2.07 | 2.26 | 2.50 | 2.78 | 3.07 | 3.26 | 3.44 | 3.67 |
| 78 | 1.80 | 1.89 | 1.97 | 2.08 | 2.27 | 2.51 | 2.78 | 3.07 | 3.26 | 3.44 | 3.67 |
| 79 | 1.80 | 1.89 | 1.97 | 2.08 | 2.27 | 2.51 | 2.79 | 3.08 | 3.27 | 3.45 | 3.68 |
| 80 | 1.80 | 1.89 | 1.97 | 2.08 | 2.27 | 2.51 | 2.79 | 3.08 | 3.27 | 3.46 | 3.69 |
| 81 | 1.80 | 1.89 | 1.98 | 2.08 | 2.27 | 2.51 | 2.79 | 3.08 | 3.28 | 3.46 | 3.69 |
| 82 | 1.80 | 1.89 | 1.98 | 2.08 | 2.27 | 2.52 | 2.80 | 3.09 | 3.28 | 3.47 | 3.70 |
| 83 | 1.80 | 1.89 | 1.98 | 2.08 | 2.28 | 2.52 | 2.80 | 3.09 | 3.29 | 3.47 | 3.71 |
| 84 | 1.80 | 1.90 | 1.98 | 2.08 | 2.28 | 2.52 | 2.81 | 3.10 | 3.30 | 3.48 | 3.72 |
| 85 | 1.80 | 1.90 | 1.98 | 2.09 | 2.28 | 2.53 | 2.81 | 3.11 | 3.30 | 3.49 | 3.72 |

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| **Table S15. Heart rate-related Ris for cardiac index [l.min/m2]: Females** | | | | | | | | | | | |
| **Heart rate [bpm]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 41 | 1.62 | 1.67 | 1.70 | 1.75 | 1.83 | 1.93 | 2.03 | 2.13 | 2.19 | 2.25 | 2.31 |
| 42 | 1.63 | 1.68 | 1.72 | 1.77 | 1.86 | 1.97 | 2.09 | 2.20 | 2.27 | 2.33 | 2.41 |
| 43 | 1.65 | 1.70 | 1.74 | 1.80 | 1.90 | 2.02 | 2.14 | 2.27 | 2.35 | 2.42 | 2.50 |
| 44 | 1.66 | 1.71 | 1.76 | 1.82 | 1.93 | 2.06 | 2.20 | 2.34 | 2.42 | 2.50 | 2.60 |
| 45 | 1.67 | 1.73 | 1.79 | 1.85 | 1.96 | 2.10 | 2.26 | 2.41 | 2.50 | 2.59 | 2.70 |
| 46 | 1.68 | 1.75 | 1.81 | 1.87 | 2.00 | 2.15 | 2.31 | 2.48 | 2.58 | 2.68 | 2.80 |
| 47 | 1.70 | 1.77 | 1.83 | 1.90 | 2.03 | 2.19 | 2.37 | 2.55 | 2.67 | 2.77 | 2.90 |
| 48 | 1.71 | 1.78 | 1.85 | 1.92 | 2.06 | 2.24 | 2.43 | 2.62 | 2.75 | 2.86 | 3.00 |
| 49 | 1.72 | 1.80 | 1.87 | 1.95 | 2.10 | 2.28 | 2.49 | 2.70 | 2.83 | 2.95 | 3.11 |
| 50 | 1.74 | 1.82 | 1.89 | 1.97 | 2.13 | 2.33 | 2.55 | 2.77 | 2.91 | 3.05 | 3.21 |
| 51 | 1.75 | 1.83 | 1.91 | 2.00 | 2.16 | 2.37 | 2.60 | 2.84 | 3.00 | 3.14 | 3.32 |
| 52 | 1.77 | 1.85 | 1.93 | 2.02 | 2.20 | 2.42 | 2.66 | 2.91 | 3.08 | 3.24 | 3.43 |
| 53 | 1.78 | 1.87 | 1.95 | 2.05 | 2.23 | 2.46 | 2.72 | 2.99 | 3.17 | 3.33 | 3.54 |
| 54 | 1.79 | 1.89 | 1.97 | 2.07 | 2.26 | 2.50 | 2.78 | 3.06 | 3.25 | 3.43 | 3.65 |
| 55 | 1.81 | 1.90 | 1.99 | 2.10 | 2.30 | 2.55 | 2.84 | 3.14 | 3.33 | 3.52 | 3.76 |
| 56 | 1.82 | 1.92 | 2.01 | 2.12 | 2.33 | 2.59 | 2.90 | 3.21 | 3.42 | 3.62 | 3.87 |
| 57 | 1.84 | 1.94 | 2.03 | 2.15 | 2.36 | 2.64 | 2.95 | 3.28 | 3.51 | 3.71 | 3.98 |
| 58 | 1.85 | 1.96 | 2.05 | 2.17 | 2.40 | 2.68 | 3.01 | 3.36 | 3.59 | 3.81 | 4.09 |
| 59 | 1.87 | 1.98 | 2.08 | 2.20 | 2.43 | 2.73 | 3.07 | 3.43 | 3.68 | 3.91 | 4.20 |
| 60 | 1.88 | 1.99 | 2.10 | 2.23 | 2.46 | 2.77 | 3.13 | 3.51 | 3.76 | 4.01 | 4.32 |
| 61 | 1.90 | 2.01 | 2.12 | 2.25 | 2.50 | 2.81 | 3.19 | 3.58 | 3.85 | 4.10 | 4.43 |
| 62 | 1.91 | 2.03 | 2.14 | 2.28 | 2.53 | 2.86 | 3.24 | 3.65 | 3.93 | 4.20 | 4.54 |
| 63 | 1.93 | 2.05 | 2.16 | 2.30 | 2.56 | 2.90 | 3.30 | 3.73 | 4.02 | 4.30 | 4.65 |
| 64 | 1.95 | 2.07 | 2.18 | 2.33 | 2.59 | 2.94 | 3.36 | 3.80 | 4.11 | 4.39 | 4.77 |
| 65 | 1.96 | 2.09 | 2.21 | 2.35 | 2.63 | 2.99 | 3.42 | 3.88 | 4.19 | 4.49 | 4.88 |
| 66 | 1.98 | 2.11 | 2.23 | 2.38 | 2.66 | 3.03 | 3.47 | 3.95 | 4.28 | 4.59 | 4.99 |
| 67 | 1.99 | 2.13 | 2.25 | 2.40 | 2.69 | 3.07 | 3.53 | 4.02 | 4.36 | 4.69 | 5.10 |
| 68 | 2.01 | 2.15 | 2.27 | 2.43 | 2.73 | 3.12 | 3.59 | 4.09 | 4.44 | 4.78 | 5.22 |
| 69 | 2.03 | 2.17 | 2.29 | 2.46 | 2.76 | 3.16 | 3.64 | 4.17 | 4.53 | 4.88 | 5.33 |
| 70 | 2.05 | 2.19 | 2.32 | 2.48 | 2.79 | 3.20 | 3.70 | 4.24 | 4.61 | 4.97 | 5.44 |
| 71 | 2.06 | 2.21 | 2.34 | 2.51 | 2.83 | 3.25 | 3.76 | 4.31 | 4.69 | 5.07 | 5.55 |
| 72 | 2.08 | 2.23 | 2.36 | 2.53 | 2.86 | 3.29 | 3.81 | 4.38 | 4.78 | 5.16 | 5.66 |
| 73 | 2.10 | 2.25 | 2.39 | 2.56 | 2.89 | 3.33 | 3.87 | 4.45 | 4.86 | 5.25 | 5.77 |
| 74 | 2.12 | 2.27 | 2.41 | 2.59 | 2.92 | 3.37 | 3.92 | 4.52 | 4.94 | 5.34 | 5.87 |
| 75 | 2.13 | 2.29 | 2.43 | 2.61 | 2.96 | 3.42 | 3.98 | 4.59 | 5.02 | 5.44 | 5.98 |
| 76 | 2.15 | 2.31 | 2.45 | 2.64 | 2.99 | 3.46 | 4.03 | 4.66 | 5.10 | 5.53 | 6.09 |
| 77 | 2.17 | 2.33 | 2.48 | 2.67 | 3.02 | 3.50 | 4.09 | 4.73 | 5.18 | 5.62 | 6.19 |
| 78 | 2.19 | 2.35 | 2.50 | 2.69 | 3.06 | 3.54 | 4.14 | 4.80 | 5.26 | 5.70 | 6.29 |
| 79 | 2.21 | 2.37 | 2.53 | 2.72 | 3.09 | 3.58 | 4.19 | 4.86 | 5.33 | 5.79 | 6.39 |
| 80 | 2.23 | 2.39 | 2.55 | 2.75 | 3.12 | 3.63 | 4.25 | 4.93 | 5.41 | 5.88 | 6.49 |
| 81 | 2.25 | 2.42 | 2.57 | 2.77 | 3.15 | 3.67 | 4.30 | 4.99 | 5.48 | 5.96 | 6.59 |
| 82 | 2.27 | 2.44 | 2.60 | 2.80 | 3.19 | 3.71 | 4.35 | 5.06 | 5.56 | 6.05 | 6.69 |
| 83 | 2.29 | 2.46 | 2.62 | 2.83 | 3.22 | 3.75 | 4.40 | 5.12 | 5.63 | 6.13 | 6.78 |
| 84 | 2.31 | 2.48 | 2.65 | 2.85 | 3.25 | 3.79 | 4.45 | 5.18 | 5.70 | 6.21 | 6.88 |
| 85 | 2.33 | 2.51 | 2.67 | 2.88 | 3.29 | 3.83 | 4.50 | 5.25 | 5.77 | 6.29 | 6.97 |
| 86 | 2.35 | 2.53 | 2.70 | 2.91 | 3.32 | 3.87 | 4.55 | 5.31 | 5.84 | 6.37 | 7.06 |
| 87 | 2.37 | 2.55 | 2.72 | 2.94 | 3.35 | 3.91 | 4.60 | 5.37 | 5.91 | 6.44 | 7.14 |
| 88 | 2.39 | 2.57 | 2.75 | 2.97 | 3.38 | 3.95 | 4.65 | 5.43 | 5.98 | 6.52 | 7.23 |
| 89 | 2.41 | 2.60 | 2.77 | 2.99 | 3.42 | 3.99 | 4.70 | 5.49 | 6.04 | 6.59 | 7.31 |
| 90 | 2.44 | 2.62 | 2.80 | 3.02 | 3.45 | 4.03 | 4.75 | 5.54 | 6.11 | 6.66 | 7.39 |
| 91 | 2.46 | 2.65 | 2.82 | 3.05 | 3.48 | 4.07 | 4.79 | 5.60 | 6.17 | 6.73 | 7.47 |
| 92 | 2.48 | 2.67 | 2.85 | 3.08 | 3.52 | 4.11 | 4.84 | 5.65 | 6.23 | 6.80 | 7.55 |
| 93 | 2.50 | 2.69 | 2.88 | 3.11 | 3.55 | 4.15 | 4.89 | 5.71 | 6.29 | 6.87 | 7.62 |
| 94 | 2.53 | 2.72 | 2.90 | 3.14 | 3.58 | 4.18 | 4.93 | 5.76 | 6.35 | 6.93 | 7.69 |
| 95 | 2.55 | 2.74 | 2.93 | 3.16 | 3.61 | 4.22 | 4.98 | 5.81 | 6.41 | 6.99 | 7.76 |
| 96 | 2.57 | 2.77 | 2.96 | 3.19 | 3.65 | 4.26 | 5.02 | 5.87 | 6.46 | 7.05 | 7.83 |
| 97 | 2.60 | 2.80 | 2.98 | 3.22 | 3.68 | 4.30 | 5.06 | 5.92 | 6.52 | 7.11 | 7.89 |
| 98 | 2.62 | 2.82 | 3.01 | 3.25 | 3.71 | 4.34 | 5.11 | 5.96 | 6.57 | 7.17 | 7.96 |
| 99 | 2.64 | 2.85 | 3.04 | 3.28 | 3.75 | 4.37 | 5.15 | 6.01 | 6.62 | 7.22 | 8.02 |
| 100 | 2.67 | 2.87 | 3.07 | 3.31 | 3.78 | 4.41 | 5.19 | 6.06 | 6.67 | 7.28 | 8.07 |
| 101 | 2.69 | 2.90 | 3.09 | 3.34 | 3.81 | 4.45 | 5.23 | 6.10 | 6.72 | 7.33 | 8.13 |
| 102 | 2.72 | 2.93 | 3.12 | 3.37 | 3.84 | 4.48 | 5.27 | 6.15 | 6.77 | 7.38 | 8.18 |
| 103 | 2.75 | 2.95 | 3.15 | 3.40 | 3.88 | 4.52 | 5.31 | 6.19 | 6.81 | 7.42 | 8.23 |
| 104 | 2.77 | 2.98 | 3.18 | 3.43 | 3.91 | 4.55 | 5.35 | 6.23 | 6.86 | 7.47 | 8.27 |
| 105 | 2.80 | 3.01 | 3.21 | 3.46 | 3.94 | 4.59 | 5.39 | 6.28 | 6.90 | 7.51 | 8.32 |
| 106 | 2.83 | 3.04 | 3.24 | 3.49 | 3.97 | 4.63 | 5.43 | 6.31 | 6.94 | 7.55 | 8.36 |
| 107 | 2.85 | 3.07 | 3.27 | 3.52 | 4.01 | 4.66 | 5.47 | 6.35 | 6.98 | 7.59 | 8.40 |
| 108 | 2.88 | 3.09 | 3.30 | 3.55 | 4.04 | 4.70 | 5.50 | 6.39 | 7.02 | 7.63 | 8.43 |
| 109 | 2.91 | 3.12 | 3.33 | 3.58 | 4.07 | 4.73 | 5.54 | 6.43 | 7.05 | 7.66 | 8.47 |
| 110 | 2.94 | 3.15 | 3.36 | 3.61 | 4.10 | 4.76 | 5.57 | 6.46 | 7.09 | 7.70 | 8.50 |
| 111 | 2.96 | 3.18 | 3.39 | 3.64 | 4.14 | 4.80 | 5.61 | 6.49 | 7.12 | 7.73 | 8.53 |
| 112 | 2.99 | 3.21 | 3.42 | 3.68 | 4.17 | 4.83 | 5.64 | 6.53 | 7.15 | 7.76 | 8.55 |
| 113 | 3.02 | 3.24 | 3.45 | 3.71 | 4.20 | 4.86 | 5.67 | 6.56 | 7.18 | 7.78 | 8.57 |
| 114 | 3.05 | 3.27 | 3.48 | 3.74 | 4.24 | 4.90 | 5.70 | 6.59 | 7.21 | 7.81 | 8.60 |
| 115 | 3.08 | 3.30 | 3.51 | 3.77 | 4.27 | 4.93 | 5.74 | 6.62 | 7.23 | 7.83 | 8.61 |
| 116 | 3.11 | 3.33 | 3.54 | 3.80 | 4.30 | 4.96 | 5.77 | 6.64 | 7.26 | 7.85 | 8.63 |
| 117 | 3.14 | 3.37 | 3.57 | 3.84 | 4.33 | 4.99 | 5.80 | 6.67 | 7.28 | 7.87 | 8.64 |
| 118 | 3.18 | 3.40 | 3.61 | 3.87 | 4.37 | 5.03 | 5.83 | 6.70 | 7.30 | 7.89 | 8.65 |
| 119 | 3.21 | 3.43 | 3.64 | 3.90 | 4.40 | 5.06 | 5.85 | 6.72 | 7.32 | 7.90 | 8.66 |
| 120 | 3.24 | 3.46 | 3.67 | 3.93 | 4.43 | 5.09 | 5.88 | 6.74 | 7.34 | 7.92 | 8.67 |
| 121 | 3.27 | 3.50 | 3.71 | 3.97 | 4.46 | 5.12 | 5.91 | 6.76 | 7.36 | 7.93 | 8.67 |
| 122 | 3.31 | 3.53 | 3.74 | 4.00 | 4.50 | 5.15 | 5.94 | 6.78 | 7.37 | 7.94 | 8.67 |
| 123 | 3.34 | 3.56 | 3.77 | 4.03 | 4.53 | 5.18 | 5.96 | 6.80 | 7.39 | 7.95 | 8.67 |
| 124 | 3.37 | 3.60 | 3.81 | 4.07 | 4.56 | 5.21 | 5.99 | 6.82 | 7.40 | 7.95 | 8.67 |
| 125 | 3.41 | 3.63 | 3.84 | 4.10 | 4.59 | 5.24 | 6.01 | 6.84 | 7.41 | 7.96 | 8.66 |
| 126 | 3.44 | 3.67 | 3.88 | 4.14 | 4.63 | 5.27 | 6.03 | 6.85 | 7.42 | 7.96 | 8.65 |
| 127 | 3.48 | 3.70 | 3.91 | 4.17 | 4.66 | 5.30 | 6.06 | 6.87 | 7.42 | 7.96 | 8.64 |
| 128 | 3.51 | 3.74 | 3.95 | 4.20 | 4.69 | 5.32 | 6.08 | 6.88 | 7.43 | 7.96 | 8.63 |
| 129 | 3.55 | 3.77 | 3.98 | 4.24 | 4.72 | 5.35 | 6.10 | 6.89 | 7.44 | 7.95 | 8.62 |
| 130 | 3.59 | 3.81 | 4.02 | 4.27 | 4.76 | 5.38 | 6.12 | 6.90 | 7.44 | 7.95 | 8.60 |
| 131 | 3.63 | 3.85 | 4.05 | 4.31 | 4.79 | 5.41 | 6.14 | 6.91 | 7.44 | 7.94 | 8.59 |
| 132 | 3.66 | 3.88 | 4.09 | 4.34 | 4.82 | 5.43 | 6.16 | 6.92 | 7.44 | 7.94 | 8.57 |
| 133 | 3.70 | 3.92 | 4.13 | 4.38 | 4.85 | 5.46 | 6.18 | 6.93 | 7.44 | 7.93 | 8.54 |
| 134 | 3.74 | 3.96 | 4.16 | 4.42 | 4.88 | 5.49 | 6.19 | 6.94 | 7.44 | 7.92 | 8.52 |
| 135 | 3.78 | 4.00 | 4.20 | 4.45 | 4.92 | 5.51 | 6.21 | 6.94 | 7.44 | 7.90 | 8.50 |

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| **Table S16. Heart rate-related Ris for cardiac index [l.min/m2]: Females** | | | | | | | | | | | |
| **Heart rate [bpm]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 44 | 1.67 | 1.75 | 1.82 | 1.90 | 2.06 | 2.26 | 2.49 | 2.72 | 2.87 | 3.01 | 3.19 |
| 45 | 1.67 | 1.75 | 1.83 | 1.92 | 2.08 | 2.29 | 2.53 | 2.78 | 2.94 | 3.10 | 3.29 |
| 46 | 1.68 | 1.76 | 1.84 | 1.93 | 2.11 | 2.33 | 2.58 | 2.85 | 3.02 | 3.19 | 3.40 |
| 47 | 1.68 | 1.77 | 1.85 | 1.95 | 2.13 | 2.36 | 2.63 | 2.91 | 3.10 | 3.28 | 3.50 |
| 48 | 1.68 | 1.77 | 1.86 | 1.96 | 2.15 | 2.40 | 2.68 | 2.98 | 3.18 | 3.37 | 3.61 |
| 49 | 1.69 | 1.78 | 1.87 | 1.98 | 2.18 | 2.43 | 2.73 | 3.05 | 3.26 | 3.46 | 3.72 |
| 50 | 1.69 | 1.79 | 1.88 | 1.99 | 2.20 | 2.47 | 2.78 | 3.11 | 3.34 | 3.55 | 3.83 |
| 51 | 1.70 | 1.80 | 1.89 | 2.01 | 2.22 | 2.50 | 2.83 | 3.18 | 3.42 | 3.65 | 3.94 |
| 52 | 1.71 | 1.81 | 1.91 | 2.02 | 2.25 | 2.54 | 2.88 | 3.25 | 3.50 | 3.74 | 4.05 |
| 53 | 1.72 | 1.82 | 1.92 | 2.04 | 2.27 | 2.57 | 2.93 | 3.32 | 3.58 | 3.84 | 4.16 |
| 54 | 1.72 | 1.83 | 1.93 | 2.06 | 2.30 | 2.61 | 2.98 | 3.38 | 3.66 | 3.93 | 4.28 |
| 55 | 1.73 | 1.84 | 1.95 | 2.08 | 2.32 | 2.64 | 3.03 | 3.45 | 3.74 | 4.03 | 4.39 |
| 56 | 1.74 | 1.85 | 1.96 | 2.09 | 2.35 | 2.68 | 3.08 | 3.52 | 3.83 | 4.12 | 4.51 |
| 57 | 1.75 | 1.87 | 1.98 | 2.11 | 2.37 | 2.72 | 3.14 | 3.59 | 3.91 | 4.22 | 4.62 |
| 58 | 1.76 | 1.88 | 1.99 | 2.13 | 2.40 | 2.75 | 3.19 | 3.66 | 3.99 | 4.32 | 4.74 |
| 59 | 1.77 | 1.89 | 2.01 | 2.15 | 2.43 | 2.79 | 3.24 | 3.73 | 4.08 | 4.41 | 4.86 |
| 60 | 1.78 | 1.91 | 2.02 | 2.17 | 2.45 | 2.83 | 3.29 | 3.80 | 4.16 | 4.51 | 4.97 |
| 61 | 1.79 | 1.92 | 2.04 | 2.19 | 2.48 | 2.87 | 3.34 | 3.87 | 4.24 | 4.61 | 5.09 |
| 62 | 1.81 | 1.94 | 2.06 | 2.21 | 2.51 | 2.91 | 3.40 | 3.94 | 4.33 | 4.71 | 5.21 |
| 63 | 1.82 | 1.95 | 2.08 | 2.23 | 2.54 | 2.94 | 3.45 | 4.01 | 4.41 | 4.81 | 5.33 |
| 64 | 1.83 | 1.97 | 2.09 | 2.26 | 2.56 | 2.98 | 3.50 | 4.08 | 4.50 | 4.91 | 5.45 |
| 65 | 1.85 | 1.98 | 2.11 | 2.28 | 2.59 | 3.02 | 3.56 | 4.16 | 4.58 | 5.01 | 5.57 |
| 66 | 1.86 | 2.00 | 2.13 | 2.30 | 2.62 | 3.06 | 3.61 | 4.23 | 4.67 | 5.11 | 5.69 |
| 67 | 1.88 | 2.02 | 2.15 | 2.32 | 2.65 | 3.10 | 3.67 | 4.30 | 4.75 | 5.20 | 5.81 |
| 68 | 1.89 | 2.04 | 2.17 | 2.35 | 2.68 | 3.14 | 3.72 | 4.37 | 4.84 | 5.30 | 5.93 |
| 69 | 1.91 | 2.06 | 2.19 | 2.37 | 2.71 | 3.18 | 3.77 | 4.44 | 4.92 | 5.40 | 6.05 |
| 70 | 1.92 | 2.07 | 2.22 | 2.40 | 2.75 | 3.23 | 3.83 | 4.52 | 5.01 | 5.50 | 6.17 |
| 71 | 1.94 | 2.09 | 2.24 | 2.42 | 2.78 | 3.27 | 3.89 | 4.59 | 5.10 | 5.60 | 6.29 |
| 72 | 1.96 | 2.11 | 2.26 | 2.45 | 2.81 | 3.31 | 3.94 | 4.66 | 5.18 | 5.70 | 6.40 |
| 73 | 1.98 | 2.13 | 2.28 | 2.47 | 2.84 | 3.35 | 4.00 | 4.73 | 5.27 | 5.80 | 6.52 |
| 74 | 2.00 | 2.16 | 2.31 | 2.50 | 2.88 | 3.39 | 4.05 | 4.81 | 5.35 | 5.90 | 6.64 |
| 75 | 2.02 | 2.18 | 2.33 | 2.53 | 2.91 | 3.44 | 4.11 | 4.88 | 5.44 | 6.00 | 6.76 |
| 76 | 2.04 | 2.20 | 2.36 | 2.56 | 2.94 | 3.48 | 4.17 | 4.95 | 5.53 | 6.10 | 6.88 |
| 77 | 2.06 | 2.22 | 2.38 | 2.58 | 2.98 | 3.53 | 4.22 | 5.03 | 5.61 | 6.20 | 7.00 |
| 78 | 2.08 | 2.25 | 2.41 | 2.61 | 3.01 | 3.57 | 4.28 | 5.10 | 5.70 | 6.30 | 7.11 |
| 79 | 2.10 | 2.27 | 2.43 | 2.64 | 3.05 | 3.62 | 4.34 | 5.17 | 5.78 | 6.40 | 7.23 |
| 80 | 2.12 | 2.30 | 2.46 | 2.67 | 3.09 | 3.66 | 4.40 | 5.25 | 5.87 | 6.49 | 7.34 |
| 81 | 2.15 | 2.32 | 2.49 | 2.70 | 3.12 | 3.71 | 4.46 | 5.32 | 5.95 | 6.59 | 7.46 |
| 82 | 2.17 | 2.35 | 2.52 | 2.74 | 3.16 | 3.76 | 4.52 | 5.39 | 6.04 | 6.69 | 7.57 |
| 83 | 2.19 | 2.37 | 2.55 | 2.77 | 3.20 | 3.80 | 4.58 | 5.47 | 6.12 | 6.78 | 7.68 |
| 84 | 2.22 | 2.40 | 2.58 | 2.80 | 3.24 | 3.85 | 4.64 | 5.54 | 6.21 | 6.88 | 7.79 |
| 85 | 2.24 | 2.43 | 2.61 | 2.83 | 3.28 | 3.90 | 4.70 | 5.62 | 6.29 | 6.97 | 7.90 |
| 86 | 2.27 | 2.46 | 2.64 | 2.87 | 3.32 | 3.95 | 4.76 | 5.69 | 6.38 | 7.07 | 8.01 |
| 87 | 2.30 | 2.49 | 2.67 | 2.90 | 3.36 | 4.00 | 4.82 | 5.76 | 6.46 | 7.16 | 8.12 |
| 88 | 2.33 | 2.52 | 2.70 | 2.94 | 3.40 | 4.05 | 4.88 | 5.84 | 6.54 | 7.26 | 8.23 |
| 89 | 2.36 | 2.55 | 2.74 | 2.98 | 3.45 | 4.10 | 4.94 | 5.91 | 6.63 | 7.35 | 8.33 |
| 90 | 2.38 | 2.58 | 2.77 | 3.01 | 3.49 | 4.15 | 5.00 | 5.99 | 6.71 | 7.44 | 8.44 |
| 91 | 2.42 | 2.62 | 2.81 | 3.05 | 3.53 | 4.20 | 5.06 | 6.06 | 6.79 | 7.53 | 8.54 |
| 92 | 2.45 | 2.65 | 2.84 | 3.09 | 3.58 | 4.26 | 5.13 | 6.13 | 6.87 | 7.62 | 8.64 |
| 93 | 2.48 | 2.68 | 2.88 | 3.13 | 3.62 | 4.31 | 5.19 | 6.21 | 6.96 | 7.71 | 8.74 |
| 94 | 2.51 | 2.72 | 2.92 | 3.17 | 3.67 | 4.36 | 5.25 | 6.28 | 7.04 | 7.80 | 8.84 |
| 95 | 2.55 | 2.76 | 2.96 | 3.21 | 3.72 | 4.42 | 5.32 | 6.36 | 7.12 | 7.89 | 8.94 |
| 96 | 2.58 | 2.79 | 3.00 | 3.26 | 3.76 | 4.47 | 5.38 | 6.43 | 7.20 | 7.97 | 9.03 |
| 97 | 2.62 | 2.83 | 3.04 | 3.30 | 3.81 | 4.53 | 5.44 | 6.50 | 7.28 | 8.06 | 9.12 |
| 98 | 2.65 | 2.87 | 3.08 | 3.34 | 3.86 | 4.58 | 5.51 | 6.58 | 7.36 | 8.15 | 9.22 |
| 99 | 2.69 | 2.91 | 3.12 | 3.39 | 3.91 | 4.64 | 5.57 | 6.65 | 7.44 | 8.23 | 9.31 |
| 100 | 2.73 | 2.95 | 3.16 | 3.43 | 3.96 | 4.70 | 5.64 | 6.72 | 7.52 | 8.31 | 9.39 |
| 101 | 2.77 | 2.99 | 3.21 | 3.48 | 4.02 | 4.76 | 5.71 | 6.80 | 7.59 | 8.39 | 9.48 |
| 102 | 2.81 | 3.04 | 3.25 | 3.53 | 4.07 | 4.82 | 5.77 | 6.87 | 7.67 | 8.47 | 9.56 |
| 103 | 2.85 | 3.08 | 3.30 | 3.58 | 4.12 | 4.88 | 5.84 | 6.94 | 7.75 | 8.55 | 9.65 |
| 104 | 2.89 | 3.13 | 3.35 | 3.63 | 4.18 | 4.94 | 5.91 | 7.02 | 7.82 | 8.63 | 9.73 |
| 105 | 2.94 | 3.17 | 3.40 | 3.68 | 4.24 | 5.00 | 5.97 | 7.09 | 7.90 | 8.71 | 9.80 |
| 106 | 2.98 | 3.22 | 3.45 | 3.73 | 4.29 | 5.06 | 6.04 | 7.16 | 7.97 | 8.78 | 9.88 |
| 107 | 3.03 | 3.27 | 3.50 | 3.79 | 4.35 | 5.13 | 6.11 | 7.23 | 8.05 | 8.86 | 9.95 |
| 108 | 3.08 | 3.32 | 3.55 | 3.84 | 4.41 | 5.19 | 6.18 | 7.30 | 8.12 | 8.93 | 10.03 |
| 109 | 3.13 | 3.37 | 3.60 | 3.90 | 4.47 | 5.26 | 6.25 | 7.38 | 8.19 | 9.00 | 10.10 |
| 110 | 3.18 | 3.43 | 3.66 | 3.96 | 4.53 | 5.32 | 6.32 | 7.45 | 8.26 | 9.07 | 10.17 |
| 111 | 3.23 | 3.48 | 3.72 | 4.02 | 4.60 | 5.39 | 6.39 | 7.52 | 8.33 | 9.14 | 10.23 |
| 112 | 3.29 | 3.54 | 3.77 | 4.08 | 4.66 | 5.46 | 6.46 | 7.59 | 8.40 | 9.21 | 10.29 |
| 113 | 3.34 | 3.59 | 3.83 | 4.14 | 4.73 | 5.53 | 6.53 | 7.66 | 8.47 | 9.28 | 10.36 |
| 114 | 3.40 | 3.65 | 3.89 | 4.20 | 4.79 | 5.60 | 6.60 | 7.73 | 8.54 | 9.34 | 10.42 |
| 115 | 3.46 | 3.71 | 3.96 | 4.27 | 4.86 | 5.67 | 6.67 | 7.80 | 8.61 | 9.41 | 10.47 |
| 116 | 3.52 | 3.78 | 4.02 | 4.33 | 4.93 | 5.74 | 6.75 | 7.87 | 8.68 | 9.47 | 10.53 |
| 117 | 3.58 | 3.84 | 4.09 | 4.40 | 5.00 | 5.81 | 6.82 | 7.94 | 8.74 | 9.53 | 10.58 |
| 118 | 3.64 | 3.91 | 4.15 | 4.47 | 5.07 | 5.88 | 6.89 | 8.01 | 8.81 | 9.59 | 10.63 |
| 119 | 3.71 | 3.97 | 4.22 | 4.54 | 5.14 | 5.96 | 6.97 | 8.08 | 8.87 | 9.65 | 10.68 |
| 120 | 3.78 | 4.04 | 4.30 | 4.61 | 5.22 | 6.04 | 7.04 | 8.15 | 8.94 | 9.71 | 10.72 |
| 121 | 3.85 | 4.12 | 4.37 | 4.69 | 5.30 | 6.11 | 7.11 | 8.22 | 9.00 | 9.76 | 10.77 |
| 122 | 3.92 | 4.19 | 4.44 | 4.76 | 5.37 | 6.19 | 7.19 | 8.29 | 9.06 | 9.82 | 10.81 |
| 123 | 3.99 | 4.27 | 4.52 | 4.84 | 5.45 | 6.27 | 7.26 | 8.36 | 9.12 | 9.87 | 10.85 |
| 124 | 4.07 | 4.34 | 4.60 | 4.92 | 5.53 | 6.35 | 7.34 | 8.42 | 9.18 | 9.92 | 10.89 |
| 125 | 4.15 | 4.42 | 4.68 | 5.00 | 5.62 | 6.43 | 7.42 | 8.49 | 9.24 | 9.97 | 10.92 |
| 126 | 4.23 | 4.51 | 4.77 | 5.09 | 5.70 | 6.51 | 7.49 | 8.56 | 9.30 | 10.02 | 10.95 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S17. Body surface area-related Ris for cardiac index [l.min/m2]: Females** | | | | | | | | | | | |
| **Body surface area [m2]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 0.7 | 4.44 | 4.59 | 4.73 | 4.89 | 5.17 | 5.51 | 5.89 | 6.25 | 6.48 | 6.70 | 6.95 |
| 0.8 | 4.11 | 4.25 | 4.37 | 4.52 | 4.78 | 5.09 | 5.43 | 5.76 | 5.97 | 6.16 | 6.40 |
| 0.9 | 3.81 | 3.94 | 4.05 | 4.19 | 4.43 | 4.72 | 5.04 | 5.35 | 5.55 | 5.73 | 5.95 |
| 1.0 | 3.54 | 3.66 | 3.77 | 3.90 | 4.13 | 4.41 | 4.71 | 5.01 | 5.20 | 5.38 | 5.59 |
| 1.1 | 3.28 | 3.40 | 3.51 | 3.63 | 3.86 | 4.13 | 4.43 | 4.72 | 4.91 | 5.08 | 5.29 |
| 1.2 | 3.06 | 3.17 | 3.27 | 3.39 | 3.61 | 3.88 | 4.17 | 4.46 | 4.65 | 4.82 | 5.03 |
| 1.3 | 2.85 | 2.96 | 3.06 | 3.18 | 3.39 | 3.65 | 3.95 | 4.23 | 4.42 | 4.59 | 4.80 |
| 1.4 | 2.66 | 2.76 | 2.86 | 2.98 | 3.19 | 3.45 | 3.74 | 4.03 | 4.22 | 4.39 | 4.60 |
| 1.5 | 2.48 | 2.59 | 2.68 | 2.80 | 3.01 | 3.27 | 3.56 | 3.85 | 4.04 | 4.21 | 4.43 |
| 1.6 | 2.32 | 2.42 | 2.52 | 2.63 | 2.84 | 3.10 | 3.39 | 3.68 | 3.88 | 4.05 | 4.27 |
| 1.7 | 2.17 | 2.28 | 2.37 | 2.48 | 2.69 | 2.95 | 3.24 | 3.53 | 3.73 | 3.91 | 4.13 |
| 1.8 | 2.04 | 2.14 | 2.23 | 2.34 | 2.55 | 2.80 | 3.10 | 3.40 | 3.59 | 3.78 | 4.01 |
| 1.9 | 1.91 | 2.01 | 2.10 | 2.21 | 2.42 | 2.67 | 2.97 | 3.27 | 3.47 | 3.66 | 3.89 |
| 2.0 | 1.80 | 1.90 | 1.99 | 2.09 | 2.30 | 2.55 | 2.85 | 3.15 | 3.35 | 3.54 | 3.79 |
| 2.1 | 1.69 | 1.79 | 1.88 | 1.98 | 2.18 | 2.44 | 2.73 | 3.04 | 3.25 | 3.44 | 3.69 |
| 2.2 | 1.60 | 1.69 | 1.77 | 1.88 | 2.08 | 2.33 | 2.63 | 2.94 | 3.15 | 3.35 | 3.60 |
| 2.3 | 1.51 | 1.60 | 1.68 | 1.79 | 1.98 | 2.23 | 2.53 | 2.84 | 3.05 | 3.26 | 3.51 |
| **Table S18. Body surface area-related Ris for cardiac index [l.min/m2]: Males** | | | | | | | | | | | |
| **Body surface area [m2]** | **p 1th** | **p 2.5th** | **p 5th** | **p 10th** | **p 25th** | **p 50th** | **p 75th** | **p 90th** | **p 95th** | **p 97.5th** | **p 99th** |
| 0.7 | 4.62 | 4.77 | 4.90 | 5.07 | 5.35 | 5.70 | 6.07 | 6.44 | 6.68 | 6.89 | 7.15 |
| 0.8 | 4.29 | 4.44 | 4.57 | 4.73 | 5.01 | 5.36 | 5.74 | 6.11 | 6.35 | 6.57 | 6.84 |
| 0.9 | 3.99 | 4.13 | 4.26 | 4.42 | 4.69 | 5.04 | 5.41 | 5.79 | 6.03 | 6.25 | 6.52 |
| 1.0 | 3.71 | 3.85 | 3.97 | 4.13 | 4.40 | 4.74 | 5.11 | 5.48 | 5.72 | 5.94 | 6.21 |
| 1.1 | 3.46 | 3.59 | 3.71 | 3.86 | 4.13 | 4.45 | 4.82 | 5.18 | 5.42 | 5.64 | 5.90 |
| 1.2 | 3.22 | 3.35 | 3.47 | 3.62 | 3.87 | 4.19 | 4.55 | 4.90 | 5.13 | 5.35 | 5.61 |
| 1.3 | 3.01 | 3.14 | 3.25 | 3.39 | 3.64 | 3.95 | 4.29 | 4.64 | 4.87 | 5.07 | 5.33 |
| 1.4 | 2.82 | 2.94 | 3.05 | 3.18 | 3.42 | 3.72 | 4.05 | 4.39 | 4.61 | 4.82 | 5.07 |
| 1.5 | 2.64 | 2.76 | 2.86 | 2.99 | 3.22 | 3.51 | 3.83 | 4.16 | 4.37 | 4.57 | 4.82 |
| 1.6 | 2.48 | 2.59 | 2.69 | 2.81 | 3.03 | 3.31 | 3.62 | 3.94 | 4.15 | 4.34 | 4.58 |
| 1.7 | 2.33 | 2.44 | 2.53 | 2.65 | 2.86 | 3.13 | 3.43 | 3.73 | 3.94 | 4.12 | 4.36 |
| 1.8 | 2.20 | 2.30 | 2.39 | 2.50 | 2.70 | 2.96 | 3.25 | 3.54 | 3.74 | 3.92 | 4.15 |
| 1.9 | 2.07 | 2.17 | 2.25 | 2.36 | 2.56 | 2.80 | 3.08 | 3.36 | 3.55 | 3.73 | 3.95 |
| 2.0 | 1.95 | 2.04 | 2.13 | 2.23 | 2.42 | 2.65 | 2.92 | 3.20 | 3.38 | 3.55 | 3.76 |
| 2.1 | 1.84 | 1.93 | 2.01 | 2.11 | 2.29 | 2.52 | 2.77 | 3.04 | 3.21 | 3.38 | 3.58 |
| 2.2 | 1.74 | 1.83 | 1.90 | 2.00 | 2.17 | 2.39 | 2.64 | 2.89 | 3.06 | 3.22 | 3.42 |
| 2.3 | 1.65 | 1.73 | 1.81 | 1.90 | 2.06 | 2.27 | 2.51 | 2.75 | 2.91 | 3.07 | 3.26 |
| 2.4 | 1.57 | 1.64 | 1.71 | 1.80 | 1.96 | 2.16 | 2.39 | 2.62 | 2.78 | 2.92 | 3.11 |
| 2.5 | 1.49 | 1.56 | 1.63 | 1.71 | 1.86 | 2.05 | 2.27 | 2.50 | 2.65 | 2.79 | 2.97 |
| 2.6 | 1.41 | 1.48 | 1.55 | 1.62 | 1.77 | 1.95 | 2.17 | 2.38 | 2.53 | 2.67 | 2.84 |