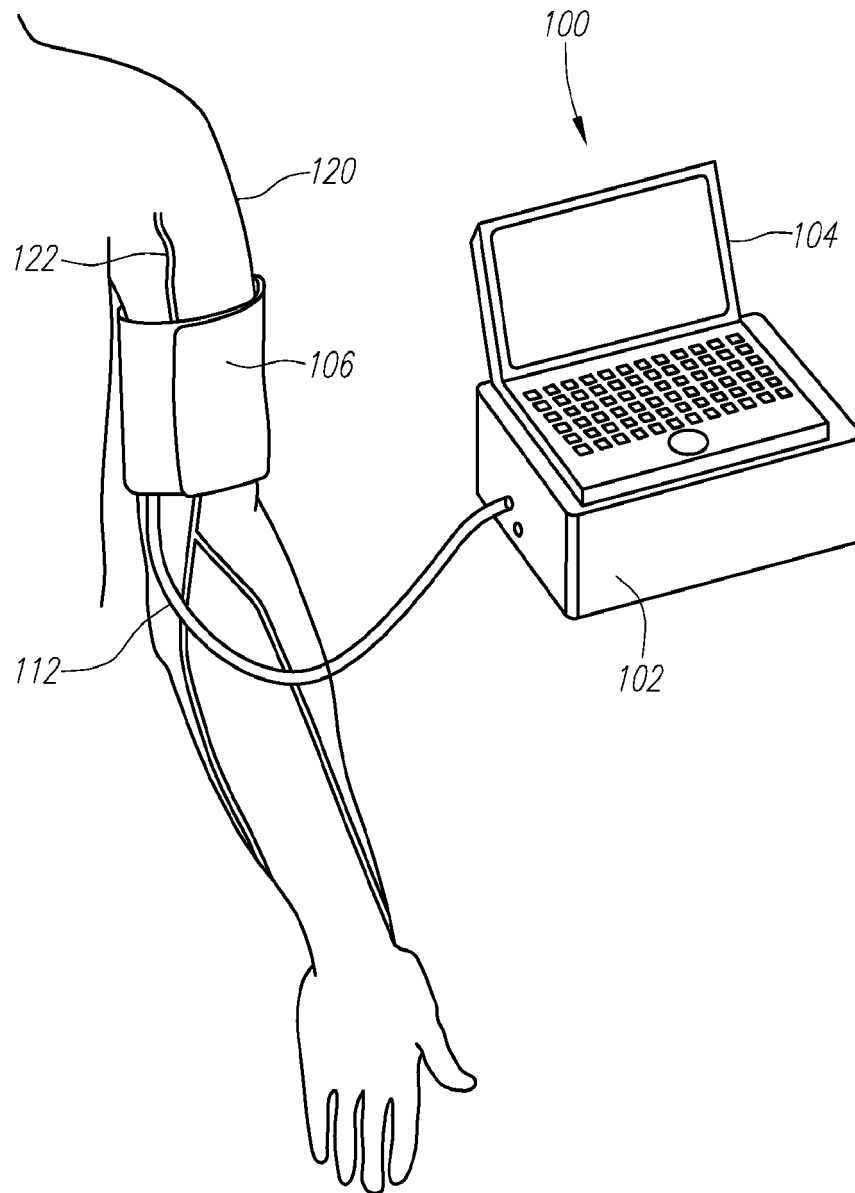


**FIG. 1**

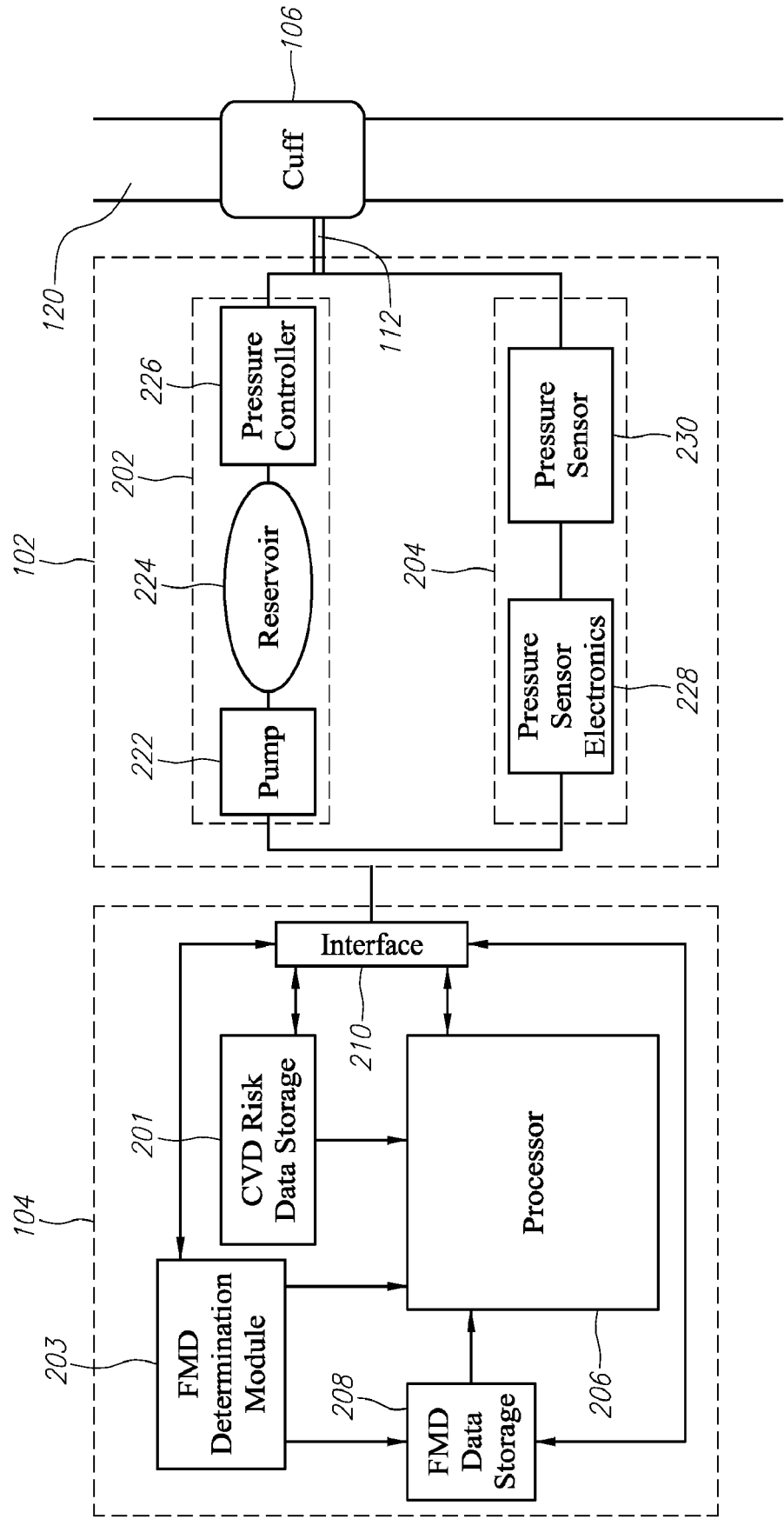
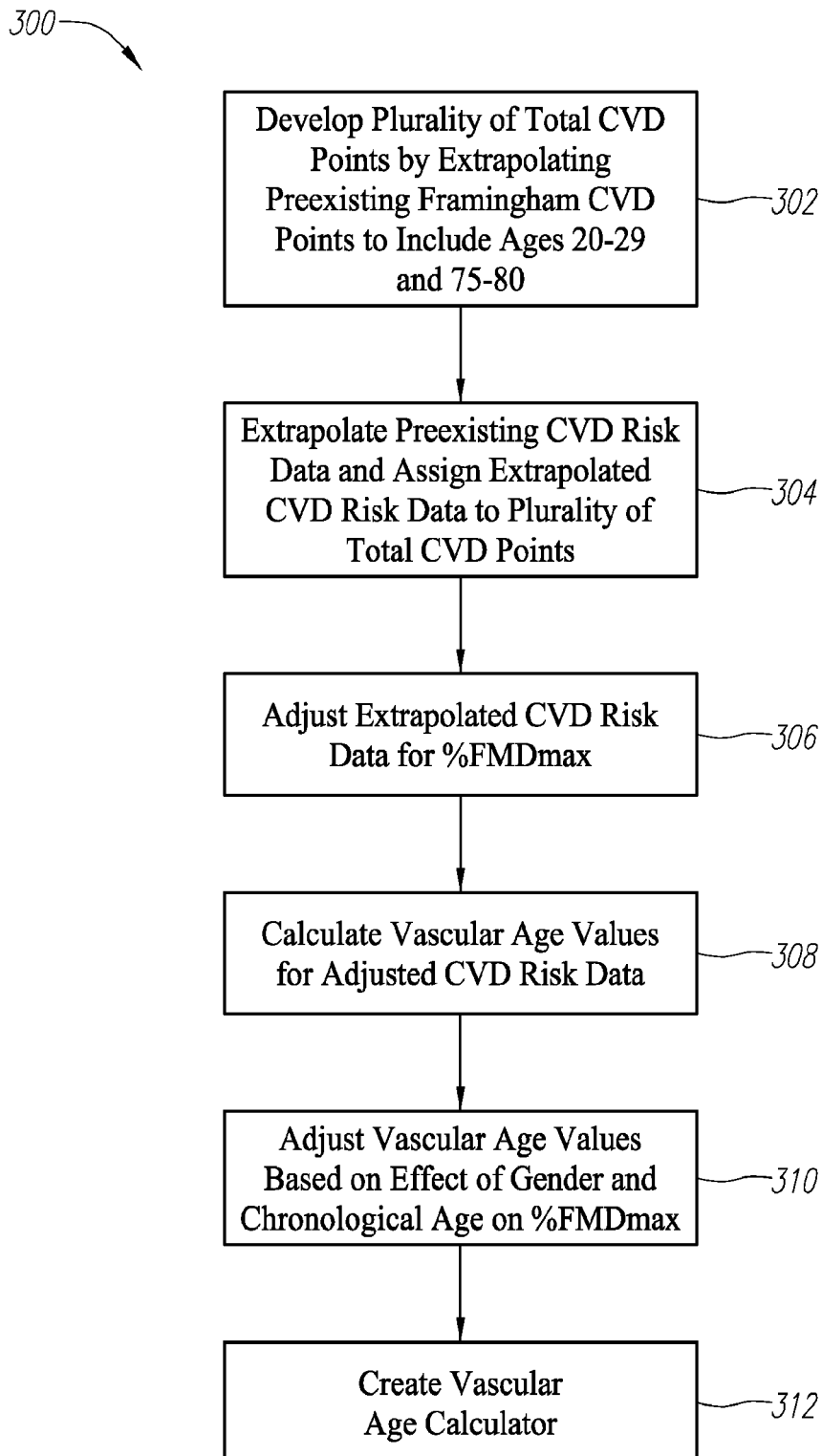


FIG. 2

**FIG. 3**

| EXTRAPOLATED FRAMINGHAM CVD RISK SCORES (%) -- MEN/NO LABS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| %FMD max                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Framingham<br>Total Points                                 | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15+   |
| Factor x                                                   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| FMD 10 Score:                                              | 4.03  | 3.50  | 3.05  | 2.65  | 2.31  | 2.01  | 1.75  | 1.52  | 1.32  | 1.15  | 1.00  | 0.87  | 0.76  | 0.66  | 0.57  | 0.50  |
| -9                                                         | 1.93  | 1.68  | 1.16  | 1.27  | 1.11  | 0.10  | 0.84  | 0.73  | 0.63  | 0.55  | 0.48  | 0.42  | 0.36  | 0.32  | 0.27  | 0.24  |
| -8                                                         | 2.33  | 2.03  | 1.77  | 1.54  | 1.34  | 1.16  | 1.01  | 0.88  | 0.77  | 0.67  | 0.58  | 0.50  | 0.44  | 0.38  | 0.33  | 0.29  |
| -7                                                         | 2.74  | 2.38  | 2.07  | 1.80  | 1.57  | 1.36  | 1.19  | 1.03  | 0.90  | 0.78  | 0.68  | 0.59  | 0.51  | 0.45  | 0.39  | 0.34  |
| -6                                                         | 3.26  | 2.84  | 2.47  | 2.15  | 1.87  | 1.63  | 1.41  | 1.23  | 1.07  | 0.93  | 0.81  | 0.70  | 0.61  | 0.53  | 0.46  | 0.40  |
| -5                                                         | 3.91  | 3.40  | 2.96  | 2.57  | 2.24  | 1.95  | 1.69  | 1.47  | 1.28  | 1.11  | 0.97  | 0.84  | 0.73  | 0.64  | 0.56  | 0.48  |
| -4                                                         | 4.43  | 3.85  | 3.35  | 2.92  | 2.54  | 2.21  | 1.92  | 1.67  | 1.45  | 1.26  | 1.10  | 0.96  | 0.83  | 0.72  | 0.63  | 0.55  |
| -3                                                         | 5.63  | 4.90  | 4.27  | 3.71  | 3.23  | 2.81  | 2.44  | 2.13  | 1.85  | 1.61  | 1.40  | 1.23  | 1.06  | 0.92  | 0.80  | 0.70  |
| -2                                                         | 6.44  | 5.60  | 4.87  | 4.24  | 3.69  | 3.21  | 2.79  | 2.43  | 2.11  | 1.84  | 1.60  | 1.39  | 1.21  | 1.05  | 0.92  | 0.80  |
| -1                                                         | 7.64  | 6.65  | 5.79  | 5.04  | 4.38  | 3.81  | 3.32  | 2.89  | 2.51  | 2.18  | 1.90  | 1.65  | 1.44  | 1.25  | 1.09  | 0.95  |
| 0                                                          | 9.25  | 8.05  | 7.01  | 6.10  | 5.30  | 4.61  | 4.01  | 3.49  | 3.04  | 2.64  | 2.30  | 2.00  | 1.74  | 1.51  | 1.32  | 1.15  |
| 1                                                          | 11.28 | 9.81  | 8.53  | 7.42  | 6.46  | 5.62  | 4.89  | 4.25  | 3.70  | 3.22  | 2.80  | 2.44  | 2.12  | 1.84  | 1.60  | 1.40  |
| 2                                                          | 13.29 | 11.56 | 10.05 | 8.75  | 7.61  | 6.62  | 5.76  | 5.01  | 4.36  | 3.79  | 3.30  | 2.87  | 2.50  | 2.17  | 1.89  | 1.64  |
| 3                                                          | 16.10 | 14.01 | 12.19 | 10.60 | 9.22  | 8.03  | 6.98  | 6.07  | 5.28  | 4.60  | 4.00  | 3.48  | 3.03  | 2.63  | 2.29  | 1.99  |
| 4                                                          | 18.92 | 16.46 | 14.32 | 12.46 | 10.84 | 9.43  | 8.20  | 7.14  | 6.21  | 5.40  | 4.70  | 4.09  | 3.56  | 3.09  | 2.69  | 2.34  |
| 5                                                          | 22.54 | 19.61 | 17.06 | 14.84 | 12.91 | 11.24 | 9.77  | 8.50  | 7.40  | 6.44  | 5.60  | 4.87  | 4.24  | 3.69  | 3.21  | 2.79  |
| 6                                                          | 27.01 | 23.50 | 20.41 | 17.76 | 15.45 | 13.44 | 11.69 | 10.17 | 8.85  | 7.70  | 6.70  | 5.83  | 5.07  | 4.41  | 3.84  | 3.34  |
| 7                                                          | 32.18 | 28.00 | 24.40 | 21.20 | 18.40 | 16.10 | 14.00 | 12.10 | 10.60 | 9.20  | 8.00  | 6.96  | 6.06  | 5.27  | 4.58  | 3.99  |
| 8                                                          |       | 33.30 | 28.90 | 25.20 | 21.90 | 19.10 | 16.60 | 14.40 | 12.60 | 10.90 | 9.50  | 8.27  | 7.19  | 6.26  | 5.44  | 4.73  |
| 9                                                          |       |       | 34.10 | 29.70 | 25.80 | 22.50 | 19.50 | 17.00 | 14.80 | 12.90 | 11.20 | 9.74  | 8.48  | 7.38  | 6.42  | 5.58  |
| 10                                                         |       |       |       |       | 30.70 | 26.70 | 23.20 | 20.20 | 17.60 | 15.30 | 13.00 | 11.57 | 10.07 | 8.76  | 7.62  | 6.63  |
| 11                                                         |       |       |       |       |       | 31.50 | 27.40 | 23.80 | 20.70 | 18.00 | 15.70 | 13.66 | 11.88 | 10.34 | 8.99  | 7.83  |
| 12                                                         |       |       |       |       |       |       | 32.30 | 28.10 | 24.40 | 21.30 | 18.50 | 16.10 | 14.00 | 12.18 | 10.60 | 9.22  |
| 13                                                         |       |       |       |       |       |       |       | 33.00 | 28.70 | 24.90 | 21.70 | 18.88 | 16.42 | 14.29 | 12.43 | 10.82 |
| 14                                                         |       |       |       |       |       |       |       |       | 33.60 | 29.20 | 25.40 | 22.10 | 19.22 | 16.73 | 14.55 | 12.66 |
| 15                                                         |       |       |       |       |       |       |       |       |       | 34.00 | 29.60 | 25.80 | 22.40 | 19.50 | 17.00 | 14.80 |
| 16+                                                        |       |       |       |       |       |       |       |       |       |       | 37.00 | 32.20 | 28.00 | 24.40 | 21.20 | 18.40 |

FIG.

VASCULAR AGE CALCULATOR (NON-LABORATORY PARAMETERS): MEN

| STEP 1: CALCULATE TOTAL CVD POINTS |                         |                                      |                                |                            |                |          |
|------------------------------------|-------------------------|--------------------------------------|--------------------------------|----------------------------|----------------|----------|
| CVD Points                         | Chronological Age (YRS) | Body Mass Index (kg/m <sup>2</sup> ) | Systolic BP (mmHg) Not Treated | Systolic BP (mmHg) Treated | Current Smoker | Diabetic |
| -7                                 | 20-24                   |                                      |                                |                            |                |          |
| -6                                 |                         |                                      |                                |                            |                |          |
| -5                                 |                         |                                      |                                |                            |                |          |
| -4                                 |                         |                                      |                                |                            |                |          |
| -3                                 | 25-29                   |                                      |                                |                            |                |          |
| -2                                 |                         |                                      | <120                           |                            |                |          |
| -1                                 |                         |                                      |                                |                            |                |          |
| 0                                  | 30-34                   | <25                                  | 120-129                        | <120                       | NO             | NO       |
| 1                                  |                         | 25-<30                               | 130-139                        |                            |                |          |
| 2                                  | 35-39                   | ≥30                                  | 140-159                        | 120-129                    |                |          |
| 3                                  |                         |                                      | 160+                           | 130-139                    |                | YES      |
| 4                                  |                         |                                      |                                | 140-159                    | YES            |          |
| 5                                  | 40-44                   |                                      |                                | 160+                       |                |          |
| 6                                  |                         |                                      |                                |                            |                |          |
| 7                                  | 45-49                   |                                      |                                |                            |                |          |
| 8                                  | 50-54                   |                                      |                                |                            |                |          |
| 9                                  |                         |                                      |                                |                            |                |          |
| 10                                 | 55-59                   |                                      |                                |                            |                |          |
| 11                                 | 60-64                   |                                      |                                |                            |                |          |
| 12                                 |                         |                                      |                                |                            |                |          |
| 13                                 | 65-69                   |                                      |                                |                            |                |          |
| 14                                 | 70-74                   |                                      |                                |                            |                |          |
| 15                                 | 75+                     |                                      |                                |                            |                |          |
| Point Subtotals:                   |                         |                                      |                                |                            |                |          |

FIG. 5

| STEP 2: CONVERT TOTAL CVD POINTS TO VASCULAR AGE |     |         |     |     |     |    |    |    |    |    |    |    |    |    |     |     |     |
|--------------------------------------------------|-----|---------|-----|-----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|
|                                                  |     | %FMDmax |     |     |     |    |    |    |    |    |    |    |    |    |     |     |     |
|                                                  |     | ≥0      | 1   | 2   | 3   | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13  | 14  | 15+ |
| TOTAL CVD POINTS FROM STEP 1                     | -9  | 31      | 30  | 28  | 27  | 26 | 24 | 23 | 22 | 21 | 20 | 19 | 19 | 18 | <18 | <18 | <18 |
|                                                  | -8  | 32      | 31  | 30  | 29  | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18  | <18 | <18 |
|                                                  | -7  | 35      | 33  | 32  | 30  | 29 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19  | 18  | <18 |
|                                                  | -6  | 37      | 35  | 33  | 32  | 31 | 29 | 28 | 27 | 25 | 24 | 23 | 22 | 21 | 20  | 19  | 18  |
|                                                  | -5  | 38      | 37  | 36  | 34  | 33 | 31 | 30 | 28 | 27 | 26 | 25 | 23 | 22 | 21  | 20  | 19  |
|                                                  | -4  | 41      | 39  | 37  | 35  | 34 | 32 | 31 | 30 | 28 | 27 | 26 | 24 | 23 | 22  | 21  | 20  |
|                                                  | -3  | 42      | 40  | 38  | 37  | 35 | 33 | 32 | 31 | 29 | 28 | 27 | 25 | 24 | 23  | 22  | 21  |
|                                                  | -2  | 44      | 42  | 40  | 38  | 37 | 35 | 33 | 32 | 30 | 29 | 28 | 27 | 25 | 24  | 23  | 22  |
|                                                  | -1  | 47      | 45  | 43  | 41  | 39 | 37 | 35 | 34 | 32 | 31 | 29 | 28 | 27 | 26  | 24  | 23  |
|                                                  | 0   | 50      | 47  | 45  | 43  | 41 | 39 | 38 | 36 | 34 | 33 | 31 | 30 | 28 | 27  | 26  | 24  |
|                                                  | 1   | 53      | 51  | 48  | 46  | 44 | 42 | 40 | 38 | 37 | 35 | 33 | 32 | 31 | 29  | 28  | 27  |
|                                                  | 2   | 56      | 54  | 51  | 49  | 47 | 44 | 42 | 41 | 38 | 37 | 35 | 34 | 32 | 31  | 29  | 28  |
|                                                  | 3   | 58      | 55  | 52  | 50  | 48 | 45 | 43 | 42 | 39 | 38 | 36 | 35 | 33 | 32  | 30  | 29  |
|                                                  | 4   | 62      | 58  | 55  | 52  | 50 | 48 | 46 | 44 | 41 | 40 | 38 | 36 | 34 | 33  | 32  | 31  |
|                                                  | 5   | 64      | 61  | 58  | 56  | 53 | 51 | 48 | 46 | 44 | 42 | 40 | 38 | 37 | 35  | 33  | 32  |
|                                                  | 6   | 68      | 65  | 62  | 59  | 56 | 54 | 51 | 49 | 46 | 45 | 43 | 41 | 39 | 37  | 35  | 33  |
|                                                  | 7   | 72      | 69  | 65  | 63  | 60 | 57 | 54 | 51 | 49 | 47 | 45 | 43 | 41 | 39  | 38  | 36  |
| 8                                                | 73  | 70      | 66  | 63  | 61  | 58 | 55 | 52 | 50 | 48 | 46 | 44 | 42 | 40 | 39  | 37  |     |
| 9                                                | 78  | 73      | 70  | 67  | 64  | 61 | 58 | 55 | 53 | 50 | 48 | 46 | 44 | 42 | 40  | 38  |     |
| 10                                               | 80  | 78      | 74  | 70  | 68  | 64 | 61 | 58 | 56 | 54 | 51 | 49 | 47 | 45 | 43  | 40  |     |
| 11                                               | >80 | 79      | 75  | 71  | 69  | 65 | 62 | 59 | 57 | 55 | 52 | 50 | 48 | 46 | 44  | 41  |     |
| 12                                               | >80 | >80     | 79  | 75  | 72  | 68 | 65 | 63 | 60 | 57 | 54 | 52 | 50 | 48 | 46  | 44  |     |
| 13                                               | >80 | >80     | 79  | 76  | 73  | 69 | 66 | 64 | 61 | 58 | 55 | 53 | 51 | 49 | 47  | 45  |     |
| 14                                               | >80 | >80     | >80 | 79  | 77  | 73 | 70 | 66 | 64 | 61 | 58 | 56 | 54 | 51 | 49  | 47  |     |
| 15                                               | >80 | >80     | >80 | 80  | 78  | 74 | 71 | 67 | 65 | 62 | 59 | 57 | 55 | 52 | 50  | 48  |     |
| 16+                                              | >80 | >80     | >80 | >80 | >80 | 79 | 75 | 72 | 69 | 66 | 64 | 61 | 58 | 56 | 54  | 52  |     |
| VASCULAR AGE (YEARS)                             |     |         |     |     |     |    |    |    |    |    |    |    |    |    |     |     |     |

606

604

602

FIG. 6

VASCULAR AGE CALCULATOR (LABORATORY PARAMETERS): MEN

| STEP 1: CALCULATE TOTAL CVD POINTS |                         |                         |                           |                                |                            |                |
|------------------------------------|-------------------------|-------------------------|---------------------------|--------------------------------|----------------------------|----------------|
| CVD Points                         | Chronological Age (YRS) | HDL Cholesterol (mg/dL) | Total Cholesterol (mg/dL) | Systolic BP (mmHg) Not Treated | Systolic BP (mmHg) Treated | Current Smoker |
| -7                                 | 20-24                   |                         |                           |                                |                            |                |
| -6                                 |                         |                         |                           |                                |                            |                |
| -5                                 |                         |                         |                           |                                |                            |                |
| -4                                 |                         |                         |                           |                                |                            |                |
| -3                                 | 25-29                   |                         |                           |                                |                            |                |
| -2                                 |                         | 60+                     |                           | <120                           |                            |                |
| -1                                 |                         | 50-59                   |                           |                                |                            |                |
| 0                                  | 30-34                   | 45-49                   | <160                      | 120-129                        | <120                       | NO             |
| 1                                  |                         | 35-44                   | 160-199                   | 130-139                        |                            |                |
| 2                                  | 35-39                   | <35                     | 200-239                   | 140-159                        | 120-129                    |                |
| 3                                  |                         |                         | 240-279                   | 160+                           | 130-139                    | YES            |
| 4                                  |                         |                         | 280+                      |                                | 140-159                    | YES            |
| 5                                  | 40-44                   |                         |                           |                                | 160+                       |                |
| 6                                  | 45-49                   |                         |                           |                                |                            |                |
| 7                                  |                         |                         |                           |                                |                            |                |
| 8                                  | 50-54                   |                         |                           |                                |                            |                |
| 9                                  |                         |                         |                           |                                |                            |                |
| 10                                 | 55-59                   |                         |                           |                                |                            |                |
| 11                                 | 60-64                   |                         |                           |                                |                            |                |
| 12                                 | 65-69                   |                         |                           |                                |                            |                |
| 13                                 |                         |                         |                           |                                |                            |                |
| 14                                 | 70-74                   |                         |                           |                                |                            |                |
| 15                                 | 75+                     |                         |                           |                                |                            |                |
| Point Subtotals:                   |                         |                         |                           |                                |                            |                |

FIG. 7

| STEP 2: CONVERT TOTAL CVD POINTS TO VASCULAR AGE |     |         |     |     |     |     |     |    |    |     |     |     |     |     |     |     |     |
|--------------------------------------------------|-----|---------|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                  |     | %FMDmax |     |     |     |     |     |    |    |     |     |     |     |     |     |     |     |
|                                                  |     | >0      | 1   | 2   | 3   | 4   | 5   | 6  | 7  | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| TOTAL CVD POINTS FROM STEP 1                     | -11 | 26      | 24  | 23  | 22  | 21  | 20  | 19 | 18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
|                                                  | -10 | 27      | 26  | 25  | 23  | 22  | 21  | 20 | 19 | 18  | 18  | <18 | <18 | <18 | <18 | <18 | <18 |
|                                                  | -9  | 28      | 27  | 26  | 25  | 24  | 23  | 22 | 21 | 20  | 19  | 18  | <18 | <18 | <18 | <18 | <18 |
|                                                  | -8  | 30      | 29  | 27  | 26  | 25  | 24  | 23 | 22 | 21  | 20  | 19  | 18  | <18 | <18 | <18 | <18 |
|                                                  | -7  | 32      | 31  | 29  | 28  | 27  | 25  | 24 | 23 | 22  | 21  | 20  | 19  | 18  | <18 | <18 | <18 |
|                                                  | -6  | 34      | 32  | 31  | 29  | 28  | 27  | 26 | 24 | 23  | 22  | 21  | 20  | 19  | 18  | <18 | <18 |
|                                                  | -5  | 36      | 35  | 33  | 31  | 30  | 28  | 27 | 26 | 25  | 24  | 23  | 22  | 21  | 20  | 19  | 18  |
|                                                  | -4  | 38      | 36  | 35  | 33  | 32  | 30  | 29 | 27 | 26  | 25  | 24  | 23  | 22  | 21  | 20  | 19  |
|                                                  | -3  | 40      | 38  | 37  | 35  | 33  | 32  | 30 | 29 | 27  | 26  | 25  | 24  | 23  | 22  | 21  | 20  |
|                                                  | -2  | 41      | 40  | 38  | 37  | 35  | 33  | 32 | 30 | 29  | 27  | 26  | 25  | 24  | 23  | 22  | 21  |
|                                                  | -1  | 43      | 42  | 40  | 36  | 36  | 34  | 33 | 31 | 30  | 29  | 27  | 26  | 25  | 24  | 23  | 22  |
|                                                  | 0   | 45      | 43  | 41  | 40  | 38  | 36  | 35 | 33 | 31  | 30  | 28  | 27  | 26  | 25  | 24  | 23  |
|                                                  | 1   | 48      | 46  | 44  | 42  | 40  | 38  | 36 | 35 | 33  | 32  | 30  | 29  | 27  | 26  | 25  | 24  |
|                                                  | 2   | 52      | 49  | 47  | 45  | 43  | 41  | 39 | 37 | 35  | 34  | 32  | 31  | 29  | 28  | 27  | 26  |
|                                                  | 3   | 55      | 53  | 50  | 48  | 46  | 44  | 42 | 40 | 38  | 36  | 34  | 33  | 31  | 30  | 29  | 27  |
|                                                  | 4   | 58      | 55  | 53  | 50  | 48  | 46  | 44 | 42 | 39  | 38  | 36  | 35  | 33  | 32  | 30  | 29  |
|                                                  | 5   | 59      | 56  | 54  | 51  | 49  | 47  | 45 | 43 | 40  | 39  | 37  | 36  | 34  | 33  | 31  | 30  |
|                                                  | 6   | 64      | 60  | 57  | 54  | 52  | 49  | 47 | 45 | 42  | 41  | 39  | 37  | 36  | 34  | 33  | 31  |
|                                                  | 7   | 66      | 63  | 60  | 57  | 55  | 52  | 50 | 48 | 45  | 43  | 41  | 40  | 38  | 36  | 35  | 33  |
|                                                  | 8   | 70      | 67  | 64  | 61  | 58  | 56  | 53 | 50 | 48  | 46  | 44  | 42  | 40  | 38  | 36  | 35  |
|                                                  | 9   | 72      | 68  | 65  | 62  | 59  | 57  | 54 | 51 | 49  | 47  | 45  | 43  | 41  | 39  | 37  | 36  |
|                                                  | 10  | 76      | 72  | 69  | 65  | 62  | 59  | 57 | 54 | 52  | 49  | 47  | 45  | 43  | 41  | 39  | 37  |
|                                                  | 11  | 80      | 76  | 72  | 69  | 66  | 63  | 59 | 57 | 55  | 52  | 50  | 48  | 46  | 45  | 43  | 41  |
|                                                  | 12  | >80     | 77  | 73  | 70  | 67  | 64  | 60 | 58 | 56  | 53  | 51  | 49  | 47  | 46  | 44  | 42  |
|                                                  | 13  | >80     | >80 | 77  | 74  | 70  | 67  | 64 | 61 | 58  | 56  | 53  | 51  | 49  | 47  | 45  | 43  |
|                                                  | 14  | >80     | >80 | >80 | 78  | 74  | 71  | 68 | 65 | 62  | 59  | 56  | 54  | 51  | 48  | 46  | 44  |
|                                                  | 15  | >80     | >80 | >80 | 78  | 75  | 72  | 69 | 66 | 63  | 60  | 57  | 55  | 52  | 49  | 47  | 45  |
|                                                  | 16  | >80     | >80 | >80 | >80 | 79  | 76  | 72 | 69 | 66  | 63  | 60  | 57  | 55  | 52  | 50  | 48  |
|                                                  | 17  | >80     | >80 | >80 | >80 | >80 | 77  | 73 | 70 | 67  | 64  | 61  | 58  | 56  | 53  | 51  | 49  |
|                                                  | 18+ | >80     | >80 | >80 | >80 | >80 | >80 | 78 | 74 | 71  | 68  | 65  | 62  | 59  | 56  | 54  | 51  |

802

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FIG. 8

VASCULAR AGE CALCULATOR (NON-LABORATORY PARAMETERS): WOMEN

| STEP 1: CALCULATE TOTAL CVD POINTS |                         |                                      |                                |                            |                |          |
|------------------------------------|-------------------------|--------------------------------------|--------------------------------|----------------------------|----------------|----------|
| CVD Points                         | Chronological Age (YRS) | Body Mass Index (kg/m <sup>2</sup> ) | Systolic BP (mmHg) Not Treated | Systolic BP (mmHg) Treated | Current Smoker | Diabetic |
| -7                                 | 20-24                   |                                      |                                |                            |                |          |
| -6                                 |                         |                                      |                                |                            |                |          |
| -5                                 |                         |                                      |                                |                            |                |          |
| -4                                 |                         |                                      |                                |                            |                |          |
| -3                                 | 25-29                   |                                      | <120                           |                            |                |          |
| -2                                 |                         |                                      |                                |                            |                |          |
| -1                                 |                         |                                      |                                | <120                       |                |          |
| 0                                  | 30-34                   | <25                                  | 120-129                        |                            | NO             | NO       |
| 1                                  |                         | 25-<30                               | 130-139                        |                            |                |          |
| 2                                  | 35-39                   | ≥30                                  |                                | 120-129                    |                |          |
| 3                                  |                         |                                      | 140-149                        | 130-139                    |                |          |
| 4                                  |                         |                                      | 150-159                        |                            | YES            |          |
| 5                                  | 40-44                   |                                      | 160+                           | 140-149                    |                | YES      |
| 6                                  | 45-49                   |                                      |                                | 150-159                    |                |          |
| 7                                  |                         |                                      |                                |                            |                |          |
| 8                                  | 50-54                   |                                      |                                | 160+                       |                |          |
| 9                                  |                         |                                      |                                |                            |                |          |
| 10                                 | 55-59                   |                                      |                                |                            |                |          |
| 11                                 | 60-64                   |                                      |                                |                            |                |          |
| 12                                 | 65-69                   |                                      |                                |                            |                |          |
| 13                                 |                         |                                      |                                |                            |                |          |
| 14                                 | 70-74                   |                                      |                                |                            |                |          |
| 15                                 | 75+                     |                                      |                                |                            |                |          |
| Point Subtotals:                   |                         |                                      |                                |                            |                |          |

FIG. 9

1006

| STEP 2: CONVERT TOTAL CVD POINTS TO VASCULAR AGE |         |     |     |     |    |    |    |    |    |    |    |     |     |     |     |  |
|--------------------------------------------------|---------|-----|-----|-----|----|----|----|----|----|----|----|-----|-----|-----|-----|--|
|                                                  | %FMDmax |     |     |     |    |    |    |    |    |    |    |     |     |     |     |  |
|                                                  | 1       | 2   | 3   | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15+ |  |
| TOTAL CVD POINTS FROM STEP 1                     | ≤0      |     |     |     |    |    |    |    |    |    |    |     |     |     |     |  |
|                                                  | -10     | 29  | 27  | 26  | 25 | 24 | 22 | 21 | 20 | 19 | 18 | <18 | <18 | <18 | <18 |  |
|                                                  | -9      | 30  | 29  | 28  | 26 | 25 | 24 | 22 | 21 | 20 | 19 | 18  | <18 | <18 | <18 |  |
|                                                  | -8      | 32  | 31  | 29  | 28 | 26 | 25 | 24 | 23 | 21 | 20 | 19  | 18  | <18 | <18 |  |
|                                                  | -7      | 34  | 33  | 31  | 29 | 28 | 27 | 25 | 24 | 23 | 22 | 21  | 20  | 19  | <18 |  |
|                                                  | -6      | 36  | 34  | 33  | 31 | 30 | 28 | 27 | 25 | 24 | 23 | 22  | 21  | 20  | 19  |  |
|                                                  | -5      | 38  | 36  | 35  | 33 | 31 | 30 | 28 | 27 | 25 | 24 | 23  | 22  | 21  | 20  |  |
|                                                  | -4      | 40  | 38  | 36  | 35 | 33 | 31 | 30 | 28 | 27 | 25 | 24  | 23  | 22  | 21  |  |
|                                                  | -3      | 43  | 41  | 39  | 37 | 35 | 33 | 32 | 30 | 28 | 27 | 26  | 25  | 23  | 22  |  |
|                                                  | -2      | 44  | 42  | 40  | 38 | 36 | 34 | 32 | 31 | 29 | 28 | 27  | 26  | 24  | 23  |  |
|                                                  | -1      | 46  | 44  | 42  | 39 | 37 | 36 | 34 | 32 | 31 | 29 | 28  | 27  | 25  | 24  |  |
|                                                  | 0       | 49  | 47  | 44  | 42 | 40 | 38 | 36 | 34 | 32 | 31 | 29  | 28  | 27  | 25  |  |
|                                                  | 1       | 51  | 49  | 47  | 44 | 42 | 40 | 38 | 36 | 34 | 33 | 31  | 29  | 28  | 27  |  |
|                                                  | 2       | 55  | 52  | 50  | 47 | 45 | 43 | 40 | 39 | 36 | 35 | 33  | 31  | 30  | 28  |  |
|                                                  | 3       | 58  | 55  | 52  | 50 | 47 | 45 | 43 | 41 | 38 | 37 | 35  | 33  | 32  | 30  |  |
|                                                  | 4       | 62  | 59  | 56  | 53 | 50 | 48 | 46 | 43 | 41 | 39 | 37  | 35  | 34  | 32  |  |
|                                                  | 5       | 66  | 62  | 59  | 56 | 53 | 51 | 48 | 45 | 43 | 41 | 39  | 37  | 36  | 34  |  |
|                                                  | 6       | 66  | 63  | 60  | 57 | 54 | 52 | 49 | 46 | 44 | 42 | 40  | 38  | 37  | 35  |  |
|                                                  | 7       | 70  | 66  | 63  | 60 | 57 | 54 | 51 | 48 | 46 | 44 | 42  | 40  | 38  | 37  |  |
|                                                  | 8       | 74  | 70  | 67  | 63 | 60 | 57 | 54 | 51 | 49 | 47 | 45  | 42  | 40  | 38  |  |
|                                                  | 9       | 77  | 74  | 70  | 67 | 64 | 60 | 57 | 54 | 52 | 49 | 47  | 45  | 42  | 40  |  |
|                                                  | 10      | 78  | 75  | 71  | 68 | 65 | 61 | 58 | 55 | 53 | 50 | 48  | 46  | 43  | 41  |  |
|                                                  | 11      | >80 | 78  | 75  | 71 | 67 | 64 | 61 | 58 | 55 | 52 | 50  | 48  | 45  | 43  |  |
|                                                  | 12      | >80 | 79  | 76  | 72 | 68 | 65 | 62 | 59 | 56 | 53 | 51  | 49  | 46  | 44  |  |
|                                                  | 13      | >80 | 80  | 77  | 73 | 69 | 66 | 63 | 60 | 57 | 54 | 52  | 50  | 47  | 45  |  |
|                                                  | 14      | >80 | >80 | 80  | 76 | 73 | 69 | 65 | 61 | 59 | 56 | 53  | 51  | 48  | 46  |  |
|                                                  | 15      | >80 | >80 | 80  | 77 | 74 | 70 | 66 | 62 | 60 | 57 | 54  | 52  | 49  | 47  |  |
|                                                  | 16+     | >80 | >80 | >80 | 78 | 75 | 71 | 67 | 63 | 61 | 58 | 55  | 53  | 50  | 48  |  |
| VASCULAR AGE (YEARS)                             |         |     |     |     |    |    |    |    |    |    |    |     |     |     |     |  |

1002

FIG. 10

1004

## VASCULAR AGE CALCULATOR (LABORATORY PARAMETERS): WOMEN

| STEP 1: CALCULATE TOTAL CVD POINTS |                         |                         |                           |                                |                            |                |          |
|------------------------------------|-------------------------|-------------------------|---------------------------|--------------------------------|----------------------------|----------------|----------|
| CVD Points                         | Chronological Age (YRS) | HDL Cholesterol (mg/dL) | Total Cholesterol (mg/dL) | Systolic BP (mmHg) Not Treated | Systolic BP (mmHg) Treated | Current Smoker | Diabetic |
| -5                                 | 20-24                   |                         |                           |                                |                            |                |          |
| -4                                 |                         |                         |                           |                                |                            |                |          |
| -3                                 |                         |                         |                           | <120                           |                            |                |          |
| -2                                 | 25-29                   | 60+                     |                           |                                |                            |                |          |
| -1                                 |                         | 50-59                   |                           |                                | <120                       |                |          |
| 0                                  | 30-34                   | 45-49                   | <160                      | 120-129                        |                            | NO             | NO       |
| 1                                  |                         | 35-44                   | 160-199                   | 130-139                        |                            |                |          |
| 2                                  | 35-39                   | <35                     |                           | 140-149                        | 120-129                    |                |          |
| 3                                  |                         |                         | 200-239                   |                                | 130-139                    | YES            |          |
| 4                                  | 40-44                   |                         | 240-279                   | 150-159                        |                            |                | YES      |
| 5                                  | 45-49                   |                         | 280+                      | 160+                           | 140-149                    |                |          |
| 6                                  |                         |                         |                           |                                | 150-159                    |                |          |
| 7                                  | 50-54                   |                         |                           |                                | 160+                       |                |          |
| 8                                  | 55-59                   |                         |                           |                                |                            |                |          |
| 9                                  | 60-64                   |                         |                           |                                |                            |                |          |
| 10                                 | 65-69                   |                         |                           |                                |                            |                |          |
| 11                                 | 70-74                   |                         |                           |                                |                            |                |          |
| 12                                 | 75+                     |                         |                           |                                |                            |                |          |
| Point Subtotals:                   |                         |                         |                           |                                |                            |                |          |

FIG. 11

1206

| STEP 2: CONVERT TOTAL CVD POINTS TO VASCULAR AGE |     |         |     |     |    |    |    |     |     |     |     |     |     |     |     |     |
|--------------------------------------------------|-----|---------|-----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                  |     | %FMDmax |     |     |    |    |    |     |     |     |     |     |     |     |     |     |
|                                                  |     | 1       | 2   | 3   | 4  | 5  | 6  | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15+ |
| TOTAL CVD POINTS FROM STEP 1                     | <0  | 25      | 23  | 22  | 21 | 20 | 18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
|                                                  | -10 | 27      | 25  | 24  | 22 | 21 | 20 | 19  | 18  | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
|                                                  | -9  | 29      | 27  | 26  | 24 | 23 | 21 | 20  | 19  | 18  | <18 | <18 | <18 | <18 | <18 | <18 |
|                                                  | -8  | 31      | 29  | 27  | 24 | 23 | 23 | 21  | 20  | 19  | 18  | <18 | <18 | <18 | <18 | <18 |
|                                                  | -7  | 34      | 31  | 29  | 26 | 24 | 23 | 23  | 21  | 20  | 19  | 18  | <18 | <18 | <18 | <18 |
|                                                  | -6  | 36      | 33  | 31  | 28 | 26 | 25 | 23  | 22  | 20  | 19  | 18  | <18 | <18 | <18 | <18 |
|                                                  | -5  | 38      | 36  | 34  | 30 | 28 | 26 | 25  | 23  | 22  | 20  | 19  | 18  | <18 | <18 | <18 |
|                                                  | -4  | 41      | 38  | 36  | 32 | 30 | 28 | 26  | 25  | 23  | 22  | 21  | 20  | 18  | <18 | <18 |
|                                                  | -3  | 43      | 41  | 39  | 34 | 32 | 30 | 28  | 27  | 25  | 24  | 22  | 21  | 20  | 18  | <18 |
|                                                  | -2  | 47      | 44  | 42  | 37 | 35 | 32 | 31  | 29  | 27  | 25  | 24  | 22  | 21  | 20  | 19  |
|                                                  | -1  | 49      | 46  | 43  | 38 | 36 | 34 | 32  | 30  | 28  | 27  | 25  | 23  | 22  | 21  | 20  |
|                                                  | 0   | 50      | 47  | 44  | 39 | 37 | 35 | 33  | 31  | 29  | 28  | 26  | 24  | 23  | 22  | 21  |
|                                                  | 1   | 55      | 52  | 49  | 43 | 41 | 38 | 36  | 34  | 31  | 30  | 28  | 26  | 25  | 23  | 22  |
|                                                  | 2   | 58      | 55  | 51  | 46 | 43 | 40 | 38  | 36  | 34  | 31  | 30  | 28  | 26  | 25  | 23  |
|                                                  | 3   | 62      | 59  | 55  | 49 | 46 | 43 | 41  | 38  | 36  | 34  | 32  | 30  | 28  | 26  | 25  |
|                                                  | 4   | 68      | 64  | 60  | 53 | 50 | 47 | 44  | 41  | 39  | 37  | 34  | 32  | 30  | 29  | 28  |
|                                                  | 5   | 73      | 68  | 64  | 60 | 57 | 53 | 50  | 47  | 44  | 42  | 37  | 35  | 33  | 31  | 29  |
|                                                  | 6   | 74      | 69  | 65  | 61 | 58 | 54 | 51  | 48  | 45  | 43  | 40  | 36  | 34  | 32  | 30  |
|                                                  | 7   | 79      | 75  | 70  | 65 | 62 | 58 | 55  | 51  | 48  | 45  | 43  | 38  | 36  | 34  | 31  |
|                                                  | 8   | >80     | 80  | 75  | 70 | 66 | 62 | 58  | 55  | 51  | 49  | 46  | 43  | 38  | 36  | 34  |
|                                                  | 9   | >80     | 80  | 75  | 71 | 65 | 62 | 58  | 55  | 52  | 49  | 46  | 43  | 41  | 38  | 36  |
|                                                  | 10  | >80     | >80 | 76  | 72 | 66 | 63 | 59  | 56  | 53  | 50  | 47  | 44  | 42  | 39  | 37  |
|                                                  | 11  | >80     | >80 | 75  | 71 | 67 | 64 | 60  | 57  | 54  | 51  | 48  | 45  | 43  | 41  | 38  |
|                                                  | 12  | >80     | >80 | 78  | 74 | 68 | 65 | 61  | 58  | 55  | 52  | 49  | 46  | 44  | 42  | 39  |
|                                                  | 13  | >80     | >80 | >80 | 78 | 73 | 69 | 65  | 60  | 57  | 54  | 51  | 48  | 45  | 43  | 41  |
|                                                  | 14  | >80     | >80 | >80 | 79 | 74 | 70 | 66  | 61  | 58  | 55  | 52  | 49  | 46  | 44  | 42  |
|                                                  | 15+ | >80     | >80 | >80 | 80 | 75 | 70 | 67  | 62  | 59  | 56  | 53  | 50  | 47  | 45  | 43  |
| VASCULAR AGE (YEARS)                             |     |         |     |     |    |    |    |     |     |     |     |     |     |     |     |     |

1202

1204

FIG. 12

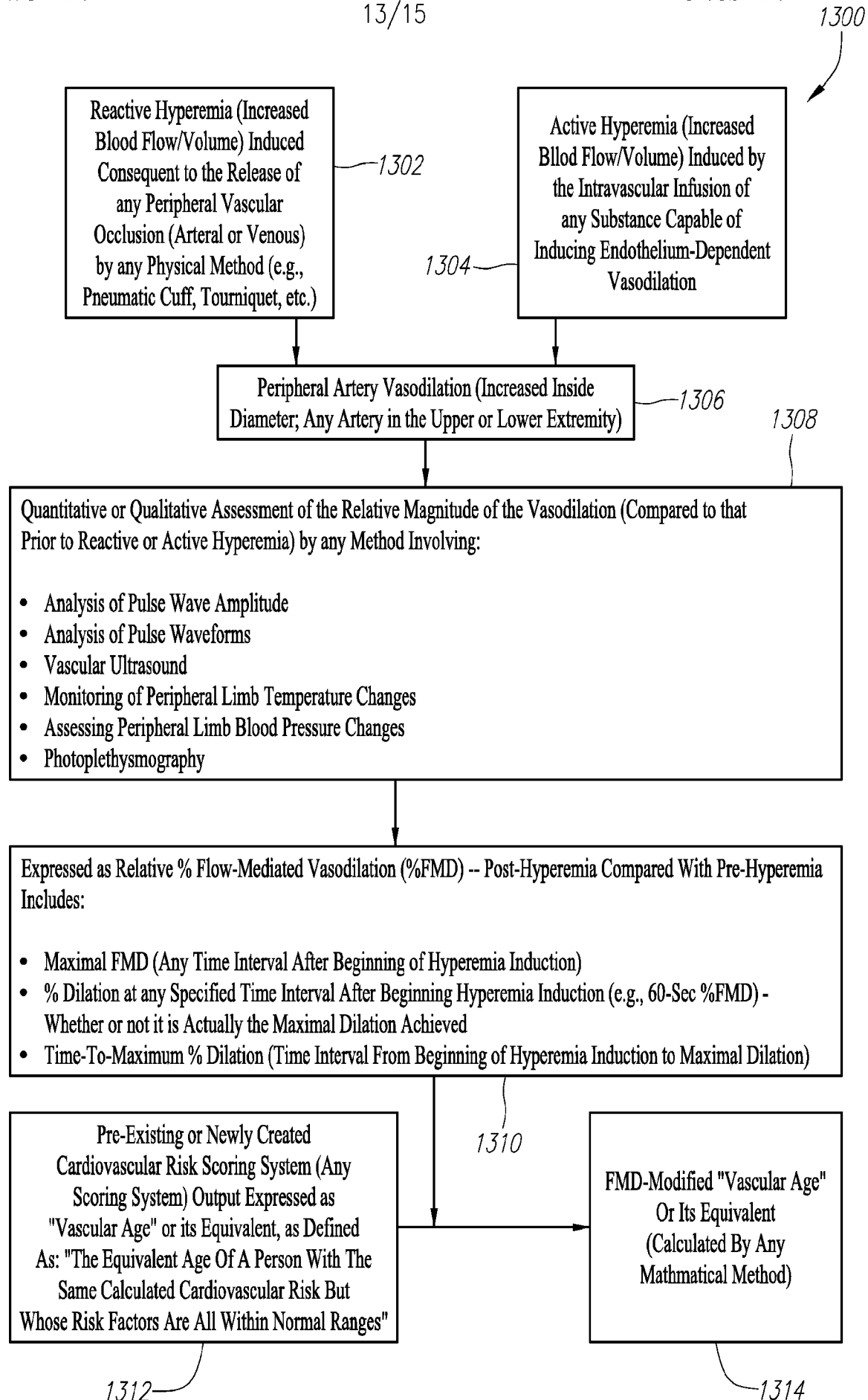
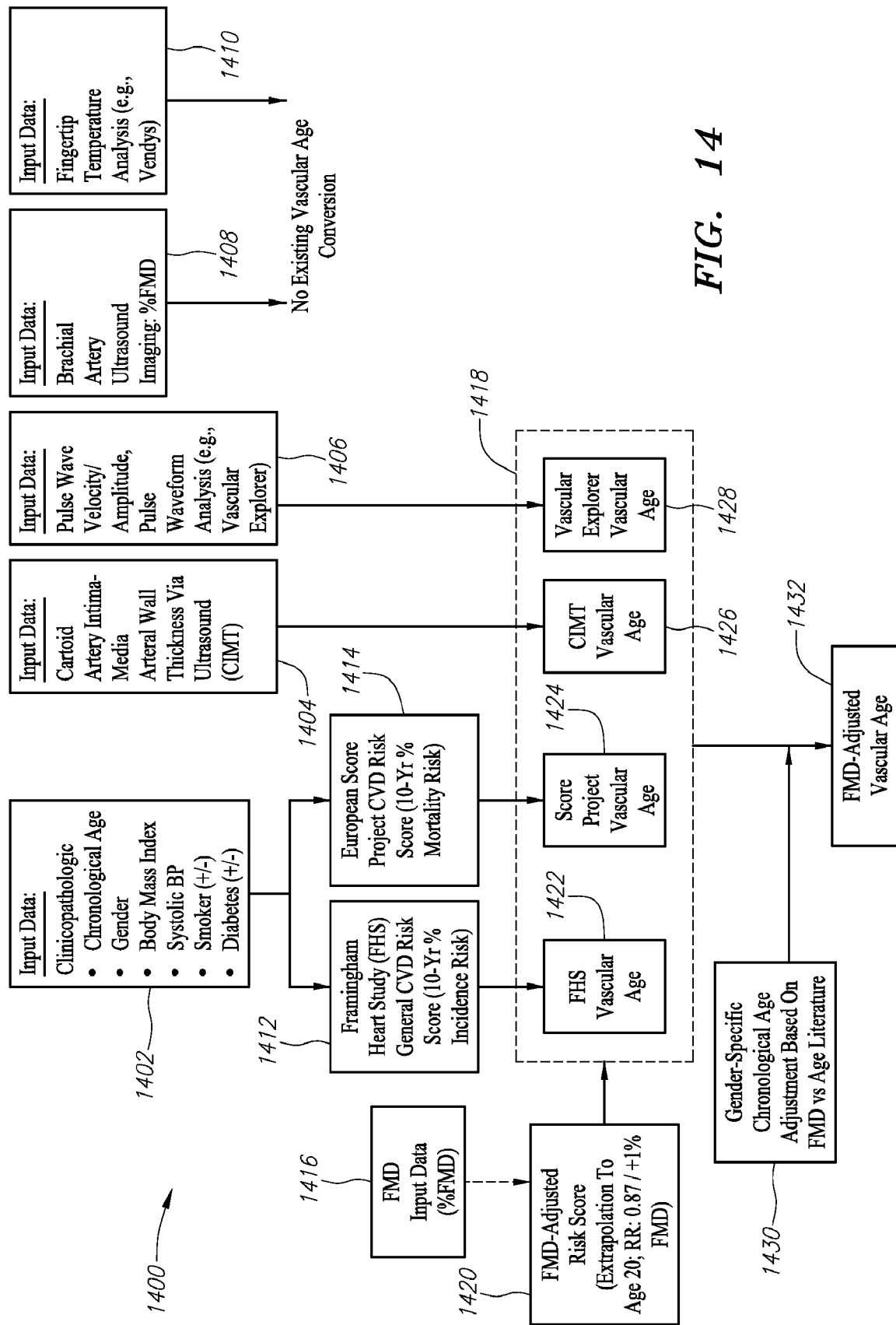


FIG. 13



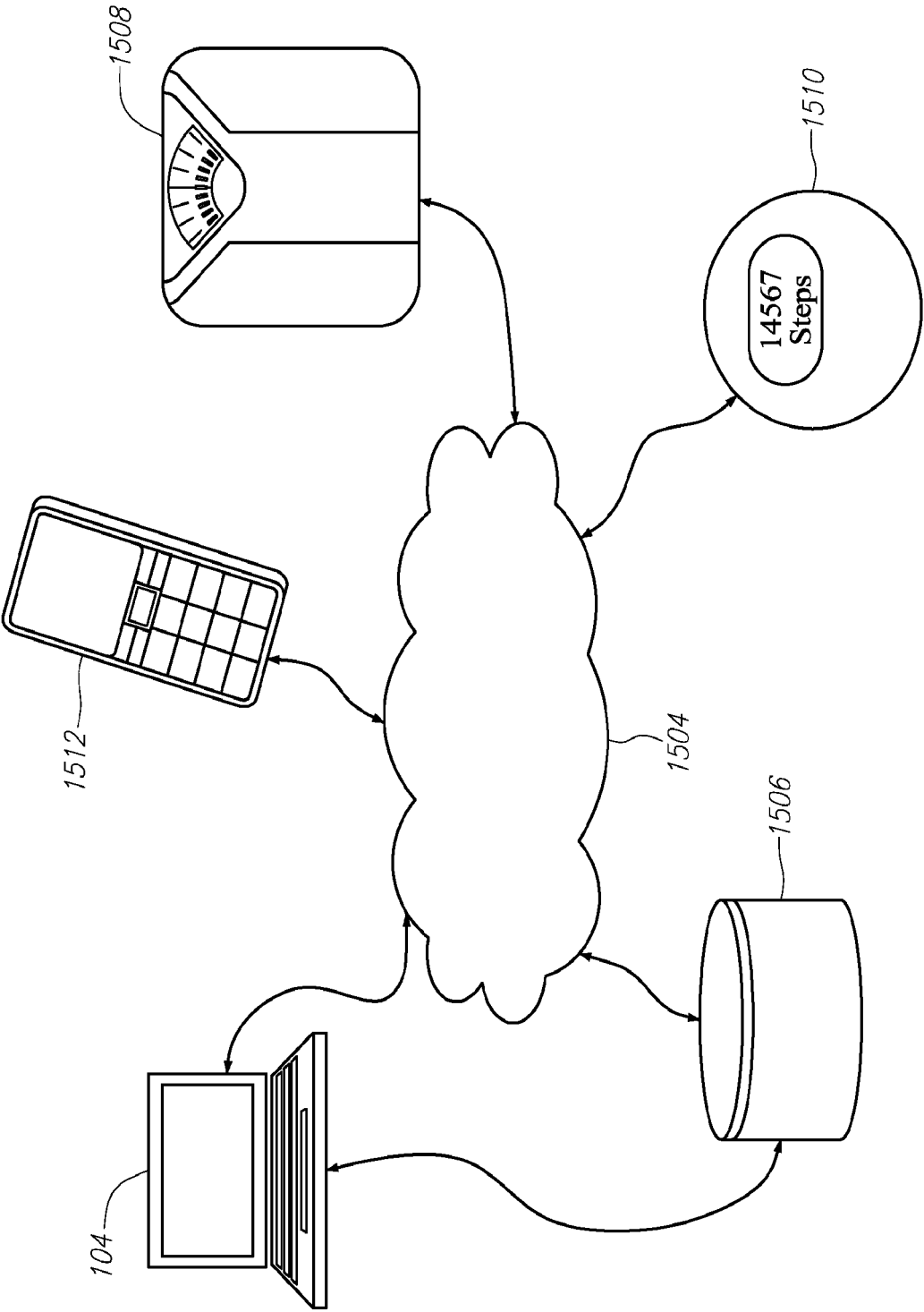


FIG. 15