



## Glycohemoglobin

| Name   | Line No. | Specimen 1   |      |       |              | Specimen 2 |    |      |      | No. of Labs |
|--|----------|--------------|------|-------|--------------|------------|----|------|------|-------------|
|  |          | Range & Type | Mean | SD    | Range & Type | Mean       | SD |      |      |             |
| <b>Glycohemoglobin - HbA1c</b>                       |          |              |      |       |              |            |    |      |      |             |
| <b>Initial Grouping by Reagent and Instrument</b>    |          |              |      |       |              |            |    |      |      |             |
| Beckman immunoinhib NGSP & Beckman Unicel DXC series | 1        | 9.1 - 15.2   | P    | 12.14 | 0.51         | 5.5 - 9.1  | P  | 7.28 | 0.36 | 30          |
| BioRad D-10 & BioRad D-10                            | 2        | 8.9 - 14.8   | P    | 11.83 | 0.50         | 5.5 - 9.2  | P  | 7.33 | 0.24 | 23          |
| BioRad Variant II & BioRad Variant II                | 3        | 8.6 - 14.4   | P    | 11.50 | 0.44         | 5.3 - 8.8  | P  | 7.06 | 0.28 | 18          |
| J&J Vitros & J&J Vitros 5,1 FS                       | 4        | 9.0 - 15.0   | P    | 12.02 | 0.42         | 5.4 - 9.0  | P  | 7.22 | 0.23 | 10          |
| Beckman Olympus & Beckm Olym AU 400/600/5400         | 5        | 9.1 - 15.1   | P    | 12.11 | 1.19         | 5.6 - 9.3  | P  | 7.47 | 0.38 | 16          |
| Pointe Scientific & Roche Cobas Mira series          | 6        | 9.0 - 15.0   | P    | 12.04 | 1.13         | 5.5 - 9.2  | P  | 7.38 | 0.88 | 11          |
| Roche Tina-Quant & Roche Cobas Integra               | 7        | 8.6 - 14.4   | P    | 11.52 | 0.18         | 5.3 - 8.9  | P  | 7.10 | 0.13 | 12          |
| Siemens DCA immunoinhibit & Siemens DCA Vantage      | 8        | 8.7 - 14.4   | P    | 11.56 | 0.37         | 5.7 - 9.6  | P  | 7.65 | 0.32 | 87          |
| Siemens DCA immunoinhibit & Siemens ACS:180          | 9        | 8.7 - 14.5   | P    | 11.57 | 0.46         | 5.7 - 9.5  | P  | 7.60 | 0.31 | 25          |
| Siemens DCA immunoinhibit & Siemens DCA 2000         | 10       | 8.8 - 14.6   | P    | 11.69 | 0.40         | 5.8 - 9.6  | P  | 7.69 | 0.38 | 59          |
| Siemens Dimension HA1C & Siemens Dimension Rxl       | 11       | 8.9 - 14.8   | P    | 11.87 | 0.42         | 5.7 - 9.4  | P  | 7.54 | 0.40 | 15          |
| Siemens Dimension HA1C & Siemens Dimension EXL       | 12       | 8.8 - 14.7   | P    | 11.78 | 0.52         | 5.7 - 9.4  | P  | 7.55 | 0.38 | 15          |
| Siemens Dimension HA1C & Siemens Dimension ser       | 13       | 8.9 - 14.8   | P    | 11.82 | 0.31         | 5.5 - 9.2  | P  | 7.40 | 0.32 | 28          |
| Siemens Dimension HA1C & Siemens Dimension Xpand     | 14       | 8.8 - 14.7   | P    | 11.79 | 0.49         | 5.5 - 9.2  | P  | 7.35 | 0.26 | 68          |
| Tosoh G7 & Tosoh G7                                  | 15       | 8.7 - 14.5   | P    | 11.59 | 0.21         | 5.5 - 9.2  | P  | 7.37 | 0.42 | 28          |
| Tosoh G8 & Tosoh G8                                  | 16       | 8.7 - 14.4   | P    | 11.54 | 0.33         | 5.4 - 9.1  | P  | 7.25 | 0.18 | 13          |
| <b>Initial Grouping by Reagent</b>                   |          |              |      |       |              |            |    |      |      |             |
| Abbott Multigent                                     | 17       | 8.6 - 14.4   | P    | 11.50 | 0.55         | 5.3 - 8.8  | P  | 7.03 | 0.52 | 10          |
| Beckman IFCC   | 18       | 9.2 - 15.4   | P    | 12.29 | 0.73         | 5.5 - 9.2  | P  | 7.34 | 0.36 | 15          |
| Beckman immunoinhib NGSP                             | 19       | 9.1 - 15.1   | P    | 12.10 | 0.53         | 5.5 - 9.1  | P  | 7.29 | 0.44 | 39          |
| BioRad D-10  | 20       | 8.9 - 14.8   | P    | 11.83 | 0.50         | 5.5 - 9.2  | P  | 7.33 | 0.24 | 23          |
| BioRad Variant II                                    | 21       | 8.6 - 14.4   | P    | 11.50 | 0.44         | 5.3 - 8.8  | P  | 7.06 | 0.28 | 18          |
| J&J Vitros   | 22       | 9.0 - 15.1   | P    | 12.05 | 0.53         | 5.4 - 9.1  | P  | 7.24 | 0.36 | 16          |

| Name  | Line No. | Specimen 1   |         |      |              | Specimen 2 |      |     |  | No. of Labs |
|---|----------|--------------|---------|------|--------------|------------|------|-----|--|-------------|
|   |          | Range & Type | Mean    | SD   | Range & Type | Mean       | SD   |     |  |             |
| Beckman Olympus                                     | 23       | 9.1 - 15.1   | P 12.11 | 1.19 | 5.6 - 9.3    | P 7.47     | 0.38 | 16  |  |             |
| Pointe Scientific                                   | 24       | 8.7 - 14.4   | P 11.55 | 1.20 | 5.5 - 9.1    | P 7.31     | 0.84 | 30  |  |             |
| Roche Cobas Integra                                 | 25       | 8.8 - 14.7   | P 11.74 | 0.53 | 5.5 - 9.1    | P 7.30     | 0.36 | 10  |  |             |
| Roche Tina-Quant                                    | 26       | 8.6 - 14.3   | P 11.46 | 0.42 | 5.4 - 9.0    | P 7.18     | 0.20 | 29  |  |             |
| Siemens DCA immunoinhibit                           | 27       | 8.7 - 14.5   | P 11.60 | 0.40 | 5.7 - 9.6    | P 7.65     | 0.34 | 175 |  |             |
| Siemens Dimension HA1C                              | 28       | 8.8 - 14.7   | P 11.80 | 0.45 | 5.6 - 9.3    | P 7.40     | 0.32 | 128 |  |             |
| Tosoh G7  | 29       | 8.7 - 14.5   | P 11.59 | 0.20 | 5.5 - 9.2    | P 7.37     | 0.42 | 29  |  |             |
| Tosoh G8  | 30       | 8.7 - 14.4   | P 11.54 | 0.32 | 5.4 - 9.1    | P 7.26     | 0.17 | 14  |  |             |
| <b>Initial Grouping by Sensitivity or Principle</b> |          |              |         |      |              |            |      |     |  |             |
| Liquid chromatography                               | 31       | 8.7 - 14.5   | P 11.56 | 0.61 | 5.5 - 9.1    | P 7.31     | 0.55 | 88  |  |             |
| Immunofluorometric-not FPIA                         | 32       | 9.0 - 15.1   | P 12.06 | 0.53 | 5.5 - 9.2    | P 7.38     | 0.45 | 21  |  |             |
| Resin absorption                                    | 33       | 8.5 - 14.2   | P 11.35 | 2.16 | 5.6 - 9.3    | P 7.47     | 0.90 | 22  |  |             |
| Turbidity immunoinhibition                          | 34       | 8.8 - 14.6   | P 11.67 | 0.64 | 5.6 - 9.4    | P 7.51     | 0.48 | 295 |  |             |
| Values standardized to DCCT                         | 35       | 8.9 - 14.8   | P 11.84 | 0.72 | 5.6 - 9.3    | P 7.41     | 0.46 | 157 |  |             |
| All other methods                                   | 36       | 8.6 - 14.3   | P 11.42 | 1.11 | 5.4 - 9.0    | P 7.23     | 0.73 | 48  |  |             |
| <b>Total Population</b>                             |          |              |         |      |              |            |      |     |  |             |
| Whole Population                                    | 37       | 8.8 - 14.6   | P 11.70 | 0.74 | 5.6 - 9.3    | P 7.42     | 0.49 | 641 |  |             |

### Glycohemoglobin - HbA1

| <b>Initial Grouping by Reagent</b>                  |   |            |        |      |            |        |      |    |  |  |
|---|---|------------|--------|------|------------|--------|------|----|--|--|
| Eagle Diag resin absorption                         | 1 | 6.9 - 11.6 | P 9.25 | 1.04 | 5.7 - 9.4  | P 7.55 | 0.85 | 10 |  |  |
| <b>Initial Grouping by Sensitivity or Principle</b> |   |            |        |      |            |        |      |    |  |  |
| Resin absorption                                    | 2 | 7.3 - 12.1 | P 9.68 | 1.13 | 6.0 - 10.1 | P 8.04 | 1.11 | 19 |  |  |
| <b>Total Population</b>                             |   |            |        |      |            |        |      |    |  |  |
| Whole Population                                    | 3 | 6.8 - 11.4 | P 9.08 | 2.68 | 5.5 - 9.2  | P 7.39 | 2.52 | 26 |  |  |

### Glycohemoglobin, Total

|                  |   |            |         |      |            |        |      |    |
|------------------|---|------------|---------|------|------------|--------|------|----|
| Whole Population | 1 | 8.6 - 14.3 | P 11.47 | 1.13 | 6.1 - 10.2 | P 8.17 | 2.24 | 16 |
|------------------|---|------------|---------|------|------------|--------|------|----|