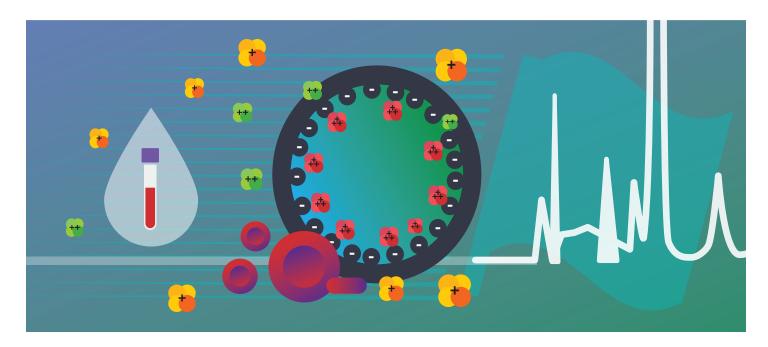
#### **Diabetes Testing**



# A1c Productivity for Demanding Workloads

## A Case Study

#### Introduction

Workflow analysis of five A1c analyzers was performed by reviewing the Instructions for Use and operation manuals of the instrumentation. Using a hypothetical workload of 2,500 A1c samples, the analyzers were evaluated for sample throughput and the operator interventions required to process the samples. This comparative model provides insight into the relative productivity of the lab using each instrument.

#### **The Challenge**

Clinical labs are under pressure to increase productivity. Selecting an A1c analyzer that requires fewer instrument interactions is key. But how can labs know which A1c analyzers are the most productive?

By comparing the number of operator interventions required to complete 2,500 A1c tests, labs can get a clearer picture of how an analyzer will impact their lab staff on a daily basis.

#### **The Solution**

The VARIANT II TURBO System runs with fewer operator interventions. The other analyzers reviewed require more reagent changes, cartridge changes & calibrations, and cleaning procedures. These tasks require operator interventions that interrupt sample processing and are time consuming.

The VARIANT II TURBO System improves productivity compared to other A1c systems by reducing redundant, low-value tasks and labor hours.

#### Race to Release 2,500 HbA1c Results



The "Race to Release 2,500 HbA1c Results" video explores the VARIANT II TURBO System performance in an animated story. Watch the video at www.bio-rad.com/v2turbo-raceto2500



### Operator interventions to run 2,500 tests

The chart below illustrates the operator interventions required to complete 2,500 A1c tests. Most A1c analyzers require frequent reagent changes and prefilter replacements; some even require calibration and cleaning steps. These frequent stops slow down productivity and require significant hands-on time to complete.

As your A1c test volume increases, you want a system that can handle the growing workload.

The VARIANT II TURBO System runs up to 2,500 A1c tests with the fewest operator interventions.

| Soo | VARIANT II TURBO System<br>11 interventions |   |            | Tosoh G8<br>24 interventions  |            | Arkray 8180<br>20 interventions   |            | Sebia Capillarys 2<br>30 interventions  |   | Trinity Hb9210<br>97 interventions  |  |
|-----|---|---|------------|---|------------|---|------------|---|---|---|--|
| 400 | Injections                                  | Task  | Injections | Task  | Injections | Task  | Injections | Task  | Injections                                | Task  |  |
|     | 400   | Reagent Prefilter Reagent Prefilter Reagent Prefilter Reagent Prefilter Reagent Reagent Prefilter Reagent Prefilter Reagent | 400        | Prefilter Reagent Reagent Reagent Prefilter Calibrate Reagent Prefilter Reagent | 500        | Prefilter Reagent Reagent Reagent Prefilter Reagent | 200        | Prefilter Reagent Prefilter Capiclean Prefilter Reagent Reagent Calibrate Prefilter Reagent Prefilter Capiclean Reagent Prefilter Capiclean Reagent Prefilter Calibrate Prefilter Reagent Capiclean Prefilter Capiclean Prefilter Reagent Capiclean Prefilter Reagent | 100                                       | Calibrate Reagent Reagent Calibrate Reagent Reagent Reagent Cartridge Prefilter Calibrate Reagent |  |
|     |   |   |            |   |            |   |            |   | 2375 <b>#</b> 2400 <b>\</b> 2500 <b>A</b> | Calibrate   |  |

Visit bio-rad.com/V2T for more information.

BIO-RAD and VARIANT are trademarks of Bio-Rad Laboratories, Inc. in certain jurisdictions. All trademarks used herein are the property of their respective owner.



Bio-Rad Laboratories, Inc.

Clinical Diagnostics Group Website www.bio-rad.com/diagnostics U.S. 1 800 224 6723 Australia +61 (2) 9914 2800 Austria +43 (0) 1 877 89 01 9 Belgium +32 (0) 3 710 53 00 Brazil +55 11 3065 7550 Canada +1 514 334 4372 China +86 21 6169 8500 Ceech Republic +420 241 431 660 Denmark +45 44 52 10 00 Finland +353 8 9804 22 00 France +33 (0) 1 4 795 60 00 Germany +49 (0) 83 1884 393 Greece +30 210 7774996 Hong Kong +85 2 2789 3300 Hungary +36 1 459 6190 India +91 124 4029300 Israel +972 03 963 6025 Italy +39 024 94 86 600 Japan +81 3 6361 7070 Korea +82 080 007 7373 Mexico +52 (55) 5488 7670 The Netherlands +31 (0)318 540 666 New Zealand +64 (9)415 2280 Norway +47 23 38 41 30 Poland +48 22 331 99 99 Portugal +351 21 47 27 700 Russia +7 495 721 1404 Singapore +65 6415 3170 South Africa +27 11 442 8508 Spain +34 91 490 6580 Sweden +46 844 98053 Switzerland +41 (0) 61 717 9555 Taiwan +886 (2) 2578-7189 Thailand (662) 651 8311 United Kingdom +44(0)1923 471301

