


**Clinical evaluation report of BeneCheck
Multi-Monitoring System cholesterol strips**

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| Clinical evaluation report of BeneCheck Multi-Monitoring System cholesterol strips TMU-JIRB No.: 201311010 | |
| report number | BKP-CS-2014-13 |
| Set the date | 2014.10. 31 |
| | 1 |

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|---|---|
| Experience the implementation of the unit | Laboratory diagnosis of medical examiner |
| Test execution site | Wanfang Hospital Laboratory Diagnosis |
| the host | Wang Jiongzong  |

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1. Purpose

The purpose of this clinical performance evaluation was to demonstrate that using BeneCheck Multi-Monitoring System and cholesterol strips were able to obtain valid cholesterol results. Comparison of fresh finger capillary blood and forearm venous blood using the Beckman Coulter analyzer was as reference.

2. Experimental equipment and materials

2.1 Equipment

2.1.1 Beckman Coulter Analyze

2.1.2 BeneCheck Multi-Monitoring System

2.1.3 EasyTouch meter (Biptik Inc.)

2.1.4 Accutrend GCT meter (Roche)

2.2 Materials

2.2.1 Beckman Coulter reagents

2.2.2 BeneCheck cholesterol strips two lots
4662, 4592.

2.2.3 EasyTouch cholesterol strips

2.2.4 Accutrend GCT cholesterol strips

3. Principle

Results of finger blood samples from patients measured by the healthcare professional, used the BeneCheck Multi-Monitoring System and cholesterol strips while they had only the instructions and the training materials routinely provided with the BeneCheck Multi-Monitoring System. Within 5 min, a venous blood sample was collected from the same user and determined by Beckman coulter as reference. Plot the X-Y distribution of test results, and evaluation the regression and correlation.

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4. Experimental methods and procedure

4.1 Experimental chairperson: Dr. Wang from Wan Fan Hospital, Taipei Medical University.

4.2 Evaluation site: Wan Fan Hospital, Taipei Medical University.

4.3 Evaluation subjects:

Total more than 100 subjects and the selection was following JIRB request.

4.4 Age: older than 20 years old is essential.

4.4.1 Sex: No special limitation, but number of male and female had better equal

4.4.2 Limit of subjects: Hematocrit "X" of subjects is satisfied with $55\% \geq X \geq 35\%$

4.5 From the two lots cholesterol strip, we random pick up 20 vials for each lot and one vial includes 25 strips. Users pick one strip from one vial for each lot to the test.

4.6 Subjects performed to test their cholesterol with fingertip blood by the instructions of BeneCheck Multi-Monitoring System and cholesterol strips.

4.7 Immediately after the user's self-test, the investigation site's trained healthcare professional measure the user's blood with the same cholesterol monitoring system. EasyTouch and Accutrend GCT cholesterol meters were also used to measure user's finger blood by the healthcare professional.

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4.8 Beckman coulter UniCelDxC 800

Within 5 mins, venous blood samples of the user were collected by the healthcare professional, and measure the cholesterol concentration in plasma by the bio-analyzer (Beckman Coulter UniCelDxC 800) as the trueness reference value.

4.9 Repeat the procedure 6 to 8 to test by the different subjects. Change the vial after testing 5 subjects.

5. Calculate and Statistics

5.1 Calculate the test numbers of bias% are within $\pm 15\%$ and $\pm 20\%$. Besides, we compare the BeneCheck Multi-Monitoring System performance with EasyTouch and Accutrend GCT which are well-known commercial cholesterol monitoring systems. The tests results of plasma detected by Beckman coulter UniCeIDxC 800 will be the reference.

$$\text{Bias\%} = (\text{Test result} - \text{Reference result}) + \text{Reference result} \times 100\%.$$

Acceptable Criteria:

The number of percentage for the bias% within should be higher than or equal to 90%.

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Results

Experimental date : 2014/08/11 – 2014/08/15.

Cholesterolstrip : 4662, 4592

Test sample: Fingertip blood and venous blood of subjects. Some extreme samples are madeup manually.

Test results:

(1) Test results of BeneCheck Multi-Monitoring System

| User number | HCT(%) | Beckman Coulter (Wanfang Hospital) | 4662 | 4592 | AVG | CV | Bias(%) |
|-------------|---------|------------------------------------|------|------|-------|---------|---------|
| s-201 | 36.3% | 210 | 235 | 252 | 243.5 | 4.9% | 16.0% |
| s-202 | 44.0% | 185.3 | 159 | 153 | 156 | 2.7% | -15.8% |
| s-203 | 35.1% | 211.1 | | 233 | 233 | | 10.4% |
| s-204 | 43.5% | 174.7 | 179 | 148 | 163.5 | 13.40/0 | -6.4% |
| s-205 | 46.0% | 140 | 132 | 129 | 130.5 | 1.6% | -6.8% |
| s-206 | 37.4% | 177.7 | 208 | 168 | 188 | 15.0% | 5.8% |
| s-207 | 37.0% | 173.4 | 205 | 207 | 206 | 0.7% | 18.8% |
| s-208 | 38.1% | 201.5 | 200 | 185 | 192.5 | 5.5% | -4.5% |
| s-210 | 46.7% | 144.5 | 149 | 141 | 145 | 3.9 | 0.3% |
| s-211 | 36.5% | 160.8 | 173 | 190 | 181.5 | 6.6% | 12.9% |
| s-212 | 40.2% | 178 | 165 | 168 | 166.5 | 1.3% | -6.5% |
| s-213 | 49.5% | 214.1 | 217 | 203 | 210 | 4.7% | -1.9% |
| s-215 | 44.2% | 185.2 | 179 | 167 | 173 | 4.9% | -6.6% |
| s-217 | 35.8% | 128.3 | 153 | 150 | 151.5 | 1.4% | 18.1% |
| s-218 | 43.0% | 148.9 | 150 | 154 | 152 | 1.9% | 2.1% |
| s-219 | 42.7% | 155.8 | 162 | 157 | 159.5 | 2.2% | 2.4% |
| s-220 | 44.3% | 113.3 | 134 | 127 | 130.5 | 3.8% | 15.2% |
| s-221 | 38.40/0 | 169.7 | 167 | 158 | 162.5 | 3.9% | -4.2% |
| s-222 | 44.0% | 168.6 | 165 | 136 | 150.5 | 13.6% | -10.7% |
| s-223 | 35.1% | 143.6 | 170 | 171 | 170.5 | 0.4% | 18.7% |
| s-224 | 38.5% | 271.2 | 300 | 268 | 284 | 8.0% | 4.7% |
| s-225 | 40.8% | 214.3 | 227 | 174 | 200.5 | 18.7% | -6.4% |
| S-226 | 42% | 236 | 225 | 219 | 222 | 1.9% | -5.9% |

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|-------|-------|--------|-----|-----|-------|--------|--------|
| S-227 | 48.0% | 220.3 | 154 | 191 | 172.5 | 15.2% | -21.7% |
| S-228 | 36,4% | 142.3 | 167 | 158 | 162.5 | 3.9% | 14.2% |
| S-229 | 42.6% | 188.8 | 164 | 169 | 166,5 | 2.1% | -11.8% |
| S-230 | 42.0% | 201.9 | 173 | 160 | 166.5 | 5.5% | -17.5% |
| S-231 | 39.0% | 242.9 | 282 | 243 | 262.5 | 10.5% | 8.1% |
| S-233 | 40,4% | 213.7% | 202 | 174 | 188 | 10.5% | -12.0% |
| S-234 | 43.5% | 239.2 | 252 | 198 | 225 | 17.0% | -5.9% |
| S-235 | 38.8% | 205.1 | 229 | 187 | 208 | 14.3% | 1.4% |
| S-236 | 44.4% | 254.8 | 198 | 212 | 205 | 4.8% | -19.5% |
| S-237 | 36.1% | 178.9 | 195 | 196 | 195.5 | 0.4% | 9.3% |
| S-238 | 41.5% | 202.9 | 231 | 183 | 207 | 16.4% | 2.0% |
| S-241 | 36.0% | 150.9 | 176 | 179 | 177.5 | 1.2% | 17.6% |
| S-242 | 40.4% | 166.6 | 152 | 153 | 152.5 | 0.5% | -8.5% |
| S-243 | 39.1% | 206.3 | 160 | 195 | 177.5 | 13.9 % | -14.0% |
| S-244 | 30.5% | 245.1 | 201 | 214 | 207.5 | 4.4 % | -15.3% |
| S-245 | 40.1% | 227.9 | 179 | 183 | 181 | 1.6 % | -20.6% |
| S-246 | 36.8% | 152.2 | 135 | 164 | 149.5 | 13.7 % | -1.8% |
| S-247 | 38.5% | 153.9 | 153 | 165 | 159 | 5.3% | 3.3% |
| S-248 | 36.6% | 168.2 | 186 | 197 | 191.5 | 4.1% | 13.9% |
| S-249 | 43.3% | 174.5 | 134 | 157 | 145.5 | 11.2% | -16.6% |
| S-250 | 38.3% | 249.2 | 237 | 206 | 221.5 | 9.9% | -11.1% |
| S-251 | 39.1% | 216.2 | 215 | 183 | 199 | 11,4% | -8.0% |
| S-252 | 36.6% | 172.3 | 203 | 185 | 194 | 6.6% | 12.6% |
| S-253 | 42.3% | 177 | 141 | 144 | 142.5 | 1.5% | -19.9% |
| S-254 | 38.8% | 187.5 | 191 | 180 | 185.5 | 4.2% | -1.1% |
| S-255 | 37.9% | 131.5 | 148 | 159 | 153.5 | 5.1% | 16.7% |
| S-256 | 38.2% | 206.9 | 181 | 178 | 179.5 | 1.2% | -13.2% |
| S-258 | 38.0% | 206.6 | 202 | 223 | 212.5 | 7.0% | 2.9% |
| S-259 | 36.1% | 210.9 | 249 | 201 | 225 | 15.1% | 6.7% |
| S-260 | 42.1% | 184.5 | 175 | 215 | 195 | 14.5% | 5.7% |
| S-261 | 36.6% | 209.8 | 229 | 211 | 220 | 5.8% | 4.9% |
| S-262 | 48.6% | 209.4 | 236 | 279 | 257.5 | 11.8% | -11.3% |
| S-263 | 44.9% | 106.6 | 124 | 127 | 125.5 | 1.7% | 17.7% |
| S-264 | 46.2% | 222 | 187 | 174 | 180.5 | 5.1% | -18.7% |
| S-266 | 36.2% | 157.5 | 183 | 192 | 187.5 | 3.4% | 19.0% |
| S-267 | 38.9% | 177.8 | 200 | 183 | 191.5 | 6.3% | 7.7% |

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|-------|-------|-------|-----|------|-------|---------|----------|
| S-269 | 40.8% | 199.6 | 234 | 153 | 193.5 | 29.60/0 | -3.1% |
| S-270 | 37.4% | 173 | 139 | 147 | 143 | 4.0% | -17.3% |
| S-271 | 41.9% | 176.5 | 157 | 164 | 160.5 | 3.1% | -9.1% |
| S-272 | 40.3% | 194.4 | 151 | 150 | 150.5 | 0.5% | -22.6% |
| S-273 | 43.8% | 151 | 146 | 130 | 138 | 8.2% | -8.6% |
| S-274 | 39.6% | 206 | 193 | 200 | 196.5 | 2.5% | -4.6% |
| S-275 | 37.8% | 180.2 | 211 | 215 | 213 | 1.3% | 18.2% |
| S-276 | 42.0% | 174 | 166 | 143 | 154.5 | 10.5% | -11.2% |
| S-277 | 40.5% | 219.5 | 173 | 208 | 190.5 | 13.0% | -13.2% |
| S-279 | 39.6% | 217.8 | 201 | 173 | 187 | 10.6% | -14.1% |
| S-280 | 41.8% | 184.4 | 164 | 150 | 157 | 6.3% | -14.9% |
| S-281 | 47.6% | 232.4 | 187 | 171 | 179 | 6.3% | -23.0% |
| S-282 | 38.8% | 143.7 | 159 | 112 | 135.5 | 24.5% | -5.7% |
| S-283 | 42.3% | 163.6 | 178 | 138 | 158 | 17.9% | -3.4% |
| S-285 | 38.3% | 222.1 | 272 | 225 | 248.5 | 13.4% | 11.9% |
| S-287 | 45.3% | 169 | 142 | 138 | 140 | 2.0% | -17.2% |
| S-288 | 37.8% | 225.4 | 183 | 267 | 225 | 26.4% | -0.2% |
| S-289 | 41.4% | 165.3 | 146 | 154 | 150% | 3.8% | -9.3% |
| S-290 | 40.5% | 197.9 | 155 | 203 | 179 | 19.00/0 | -9.6% |
| S-291 | 38.6% | 147.2 | 177 | 169 | 173 | 3.3% | 17.5% |
| S-292 | 42.3% | 201 | 173 | 208 | 190.5 | 13.0% | |
| S-293 | 40.6% | 207 | 176 | 186 | 181 | 3.9% | -12.6% |
| S-294 | 37.3% | 130.9 | 155 | 149 | 152 | 2.8% | 16.1% |
| S-297 | 46.4% | 243.8 | 156 | 198 | 177 | 16.8% | -27.4% |
| S-298 | 38.3% | 185 | 157 | 196 | 176.5 | 15.6% | -4.6% |
| S-299 | 39.5% | 185.4 | 160 | 210 | 185 | 19.1% | -0.2% |
| S-300 | 46.6% | 226.5 | 149 | 182 | 165.5 | 14.1% | -26.9% |
| S-301 | 37.2% | 202.8 | 179 | 195 | 187 | 6.1% | -7.8% |
| S-302 | 38.8% | 140.4 | 136 | 147 | 141.5 | 5.5% | 0.8% |
| S-303 | 44.5% | 186.6 | 147 | 152 | 149.5 | 2.4% | -19.9% |
| S-304 | 44.0% | 189.9 | 141 | 155 | 148 | 6.7% | -22.1% |
| S-305 | 39.2% | 178.4 | 156 | 171 | 163.5 | 6.5% | -8.4% |
| S-306 | 37.1% | 205 | 165 | 168 | 166.5 | 1.3% | -18.80/0 |
| S-307 | 44.6% | 161.5 | 145 | 148% | 146.5 | 1.4% | -9.3% |
| S-308 | 42.5% | 142.1 | 150 | 143 | 146.5 | 3.4% | 3.1% |

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(2) Test results of EasyTouch & Accutrend GCT

| User number | HCT(%) | Beckman Coulter (Wanfang Hospital) | CHOL accu | CHOL easy |
|-------------|--------|--|--------------|--------------|
| S-201 | 36.3% | 210 | 201 | |
| S-202 | 44.0% | 185.3 | 170 | 231 |
| S-203 | 35.1% | 211.1 | 204 | 240 |
| S-204 | 43.5% | 174.7 | 173 | 182 |
| S-205 | 46.0% | 140 | | 219 |
| S-206 | 37.4% | 177.7 | 180 | 202 |
| S-207 | 37.0% | 173.4 | 179 | 140 |
| S-208 | 38.1% | 201.5 | 161 | 147 |
| S-210 | 46.7% | 144.5 | 152 | 212 |
| S-211 | 36.5% | 160.8 | 162 | 190 |
| S-212 | 40.2% | 178 | 174 | 190 |
| S-213 | 49.5% | 214.1 | 202 | 217 |
| S-215 | 44.2% | 185.2 | 194 | 190 |
| S-217 | 35.8% | 128.3 | | 182 |
| S-218 | 43.0% | 148.9 | | 177 |
| S-219 | 42.7% | 155.8 | 151 | 212 |
| S-220 | 44.3% | 113.3 | 150 | 177 |
| S-221 | 38.4% | 169.7 | 178 | 197 |
| S-222 | 44.0% | 168.6 | 154 | 231 |
| S-223 | 35.1% | 143.6 | | 220 |
| S-224 | 38.5% | 271.2 | 294 | 270 |
| S-225 | 40.8% | 214.3 | 213 | 251 |
| S-226 | 42.0% | 236 | 234 | 245 |
| S-227 | 48.0% | 220.3 | 207 | 243 |
| S-228 | 36.4% | 142.3 | 178 | 192 |
| S-229 | 42.6% | 188.8 | 189 | 231 |
| S-230 | 42.0% | 201.9 | 200 | 197 |
| S-231 | 39.0% | 242.9 | 242 | 251 |
| S-233 | 40.4% | 213.7 | 206 | 212 |
| S-234 | 43.5% | 239.2 | 228 | 245 |
| S-235 | 38.3% | 205.1 | 204 | 236 |

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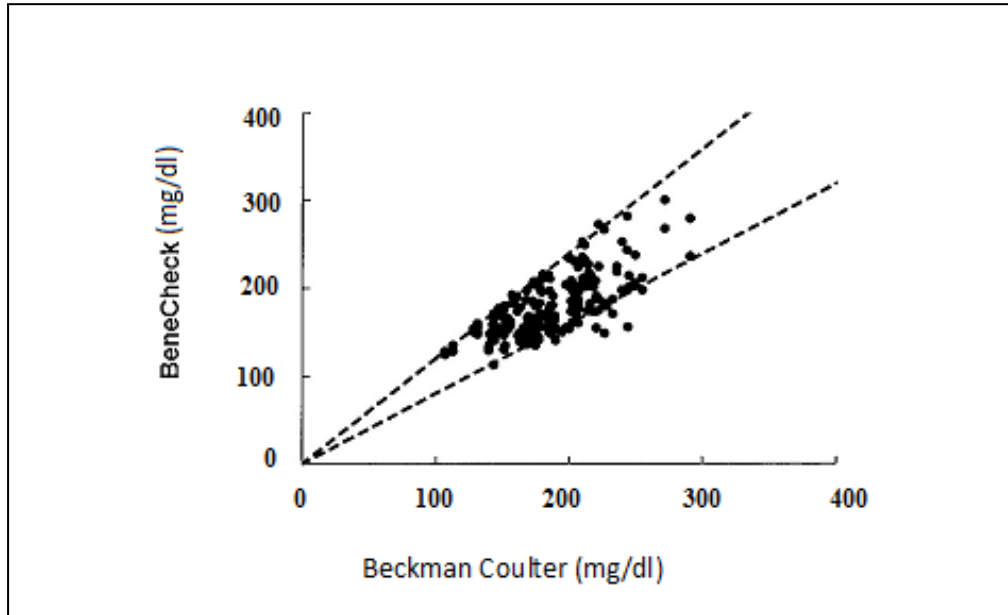
| | | | | |
|-------|-------|-------|-----|-----|
| S-236 | 44,4% | 254.8 | 247 | 212 |
| S-237 | 36.1% | 178.9 | 178 | 213 |
| S-238 | 41.5% | 202.9 | 200 | 200 |
| S-241 | 36.0% | 150.9 | 162 | 182 |
| S-242 | 40,4% | 166.6 | 152 | 180 |
| S-243 | 39.1% | 206.3 | 204 | 203 |
| S-244 | 40.5% | 245.1 | 231 | 240 |
| S-245 | 40.1% | 227.9 | 240 | 245 |
| S-246 | 36.8% | 152.2 | 157 | 172 |
| S-247 | 38.5% | 153.9 | | 190 |
| S-248 | 36.6% | 168.2 | 183 | 203 |
| S-249 | 43.3% | 174.5 | 166 | 202 |
| S-250 | 38.3% | 249.2 | 263 | 220 |
| S-251 | 39.1% | 216.2 | 214 | 212 |
| S-252 | 36.6% | 172.3 | 173 | 190 |
| S-253 | 42.3% | 177 | 180 | 205 |
| S-254 | 38.3% | 187.5 | 187 | 239 |
| S-255 | 37,9% | 131.5 | 140 | 184 |
| S-256 | 38.2% | 206.9 | 213 | 240 |
| S-257 | 38.0% | 206.6 | 199 | 256 |
| S-259 | 36.1% | 210.9 | 219 | 245 |
| S-260 | 42.1% | 184.5 | 173 | 219 |
| S-261 | 36.6% | 209.8 | 210 | 213 |
| S-262 | 48.6% | 290.4 | | 231 |
| S-263 | 44.9% | 106.6 | 140 | 182 |
| S-264 | 46.2% | 222 | 213 | 239 |
| S-266 | 36.2% | 157.5 | | 190 |
| S-267 | 38.9% | 177.8 | 188 | 202 |
| S-269 | 40.8% | 199.6 | 197 | 202 |
| S-270 | 37,4% | 173 | 173 | 197 |
| S-271 | 41.9% | 176.5 | | 220 |
| S-272 | 40.3% | 194.4 | 191 | 186 |
| S-273 | 43.8% | 151 | | 219 |
| S-274 | 39.6% | 206 | 207 | 217 |
| S-275 | 37.8% | 180.2 | 202 | 215 |
| S-276 | 42.0% | 174 | 185 | 190 |

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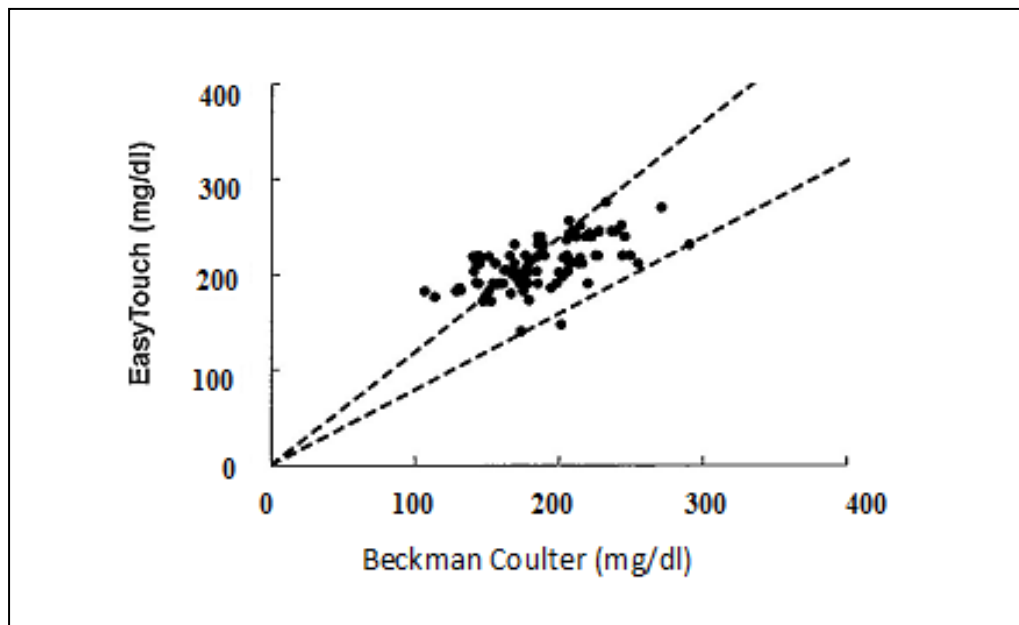
| | | | | |
|-------|-------|-------|-----|-----|
| S-277 | 40.5% | 219.5 | 223 | 190 |
| S-279 | 39.6% | 217.8 | 232 | 240 |
| S-280 | 41.8% | 184.4 | 189 | 203 |
| S-281 | 47.6% | 232.4 | 219 | 276 |
| S-282 | 38.8% | 143.7 | | 190 |
| S283 | 42.3% | 163.6 | 166 | 205 |
| S-285 | 38.3% | 222.1 | 205 | 240 |
| S-287 | 45.3% | 169 | 159 | 212 |
| S-288 | 37.8% | 225.4 | 224 | 220 |
| S-289 | 41,4% | 165.3 | 158 | 220 |
| S-290 | 40.5% | 197.9 | 200 | 190 |
| S-291 | 38.6% | 147.2 | 151 | 172 |
| S-292 | 42.3% | 201 | 200 | |
| S-293 | 40.6% | 207 | 208 | 212 |
| S-294 | 37.3% | 130.9 | | 186 |
| S-297 | 46.4% | 243.8 | 256 | 220 |
| S-298 | 38.3% | 185 | 195 | 240 |
| S-299 | 39.5% | 185.4 | 188 | 220 |
| S-300 | 46.6% | 226.5 | 224 | 220 |
| S-301 | 37.2% | 202.8 | 194 | 217 |
| S-302 | 38,8% | 140.4 | | 203 |
| S-303 | 44.5% | 186.6 | 188 | 231 |
| S-304 | 44.0% | 189.9 | 195 | 220 |
| S-305 | 39.2% | 178.4 | 192 | 173 |
| S-306 | 37.1% | 205 | 204 | 220 |
| S-307 | 44.6% | 161.5 | 158 | 205 |
| S-308 | 42.5% | 142.1 | | 212 |

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(3) Accuracy performance

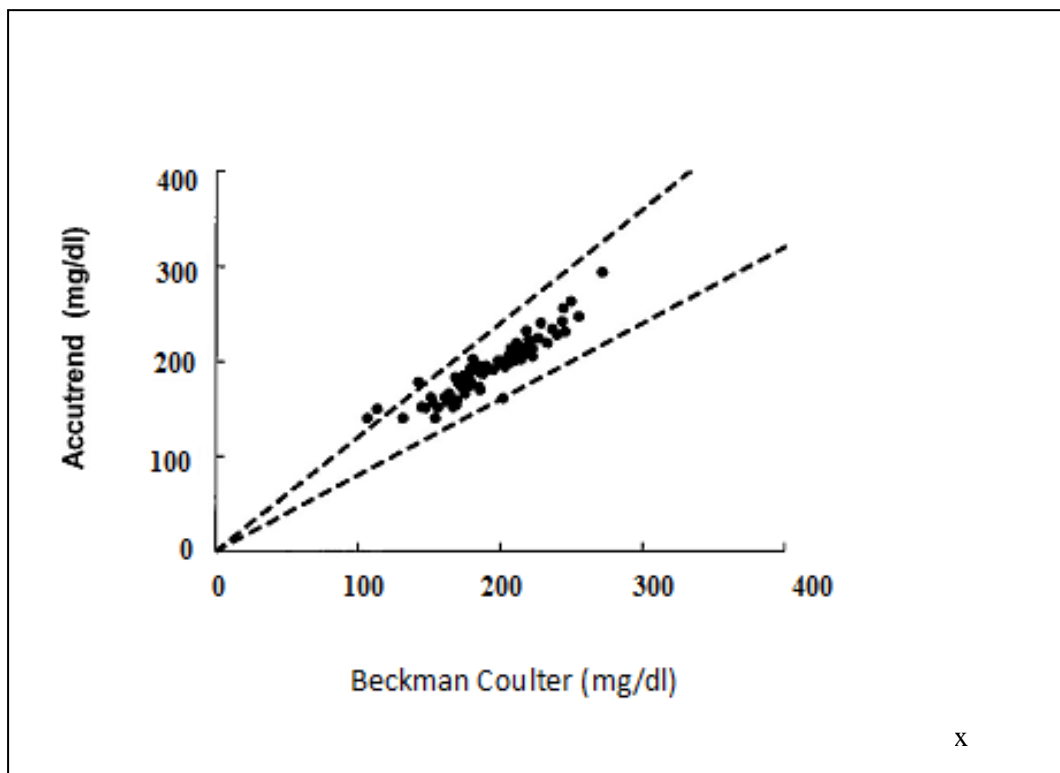


Accuracy performance of BeneCheck two lots cholesterol strips which the Beckman Coulter result is as the reference.



Accuracy performance of EasyTouch cholesterol strips which the Beckman Coulter results is as the reference.

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Accuracy performance of Accutrend GCT cholesterol strips which the Beckman Coulter result is as the reference.

Table 1: Linear comparison by other commercial product

| | BeneCheck | EasyTouch | Accutrend |
|----------|------------------|------------------|------------------|
| slope | 0.68 | 0.43 | 0.88 |
| R square | 0.48 | 0.36 | 0.86 |

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5.2 Accuracy performance comparison of BeneCheck, EasyTouch and Accutrend GCT cholesterol monitoring systems.

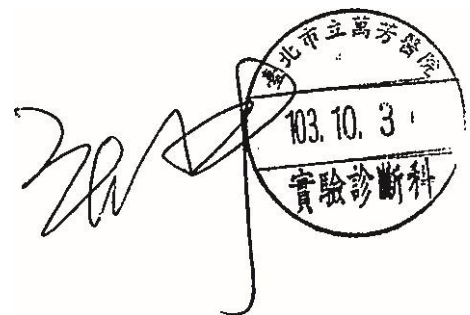
Table 2 : Accuracy comparison by the reference of Beckman coulter

| Beckman coulter as the reference | | |
|---|--------------|-------------|
| Bias range | ± 20% | ±15% |
| BeneCheck | 177/201 | 121/201 |
| | 88.1% | 60.2% |
| EasyTouch | 59/92 | 41/92 |
| | 64.10/0 | 44.60/0 |
| Accutrend | 70/79 | 70/79 |
| | 88.6% | 88.6% |

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6. Conclusion

The statistical results showed that 88.1% of fingertip bloods fall within $\pm 20\%$ bias%. At the same time, we evaluated the correlation of fingertip bloods and venous blood using analyzer. For BeneCheck Multi-Monitoring System, the slope is 0.68 and the correlation (R^2) is 0.48. For EasyTouch fingertip blood tests, the results show 64% of the test results are fall within $\pm 20\%$ of the bias%, slope is 0.43 and the correlation (R^2) of 0.36. For Accutrend fingertip blood test has 88.6% of the test results fall within $\pm 20\%$ bias%, and slope of 0.88 and correlation (R^2) of 0.86. Although the acceptable criteria were not satisfied, the accuracy of BeneCheck Multi-Monitoring System was very close to the accuracy of Accutrend in the evaluation. According to the results, the clinical performance evaluation provides practical reference meanings for BeneCheck Cholesterol strips.



Handwritten signature and circular stamp of Wu Fang Hospital Laboratory and Diagnostic Department. The stamp contains the text: 萬芳醫院 (Wu Fang Hospital), 103.10.31, and 實驗診斷科 (Laboratory and Diagnostic Department).