CLAIMS

1. A method for obtaining calibrated indicia of a level of at least one analyte in a sample comprising:

introducing a test sample possibly containing at least one analyte into a testing device;

processing said test sample in a test region of said testing device;

obtaining, as a result of said processing, a measurable indication of a level of said at least one analyte in said test sample;

processing at least one control sample containing said at least one analyte in a control region of said testing device, said processing of said at least one control sample being carried out in at least near real time with respect to said processing of said test sample;

obtaining, as a result of said processing of said control sample, at least one measurable indication of at least one level of said at least one analyte in said at least one control sample; and

calibrating said indication of said level of said at least one analyte in said test sample based on said at least one measurable indication of said level of said at least one analyte in said at least one control sample, to provide a calibrated indication of said level of said at least one analyte in said test sample.

2. A method according to claim 1, wherein said control sample is separate to and different from said test sample.

3. A method according to claim 1 or claim 2, wherein said test sample comprises a bodily fluid obtained from a subject and said testing device is a single-use, disposable device, usable by said subject.

4. A method according to any one of the preceding claims, wherein said measurable indication of said level of said at least one analyte in said test sample and said

control sample comprises at least one of a colorimetric indication, an optical indication, an electrical indication and a chemical indication.

5. A method according to claim 4, wherein said calibrating comprises at least one of:

qualitative calibrating based on relative characteristics of said measurable indications of said test sample and control sample, and

quantitative calibrating based on relative concentrations of said at least one analyte as derived from said measurable indications of said test sample and control sample.

6. A method according to claim 5, wherein:

said at least one control sample comprises at least two control samples having mutually different concentrations of said analyte therein; and

said quantitative calibrating comprises finding a correlation between said different concentrations of said analyte in said at least two control samples and said measurable indications thereof, and applying said correlation to said measurable indication of said level of said analyte in said test sample.

7. A method according to claim 5 or claim 6, and also comprising, following said calibrating:

rating a level of said at least one analyte in said test sample based on said calibrating, and

providing a diagnosis of a subject from whom said test sample is obtained based on said rated level of said at least one analyte in said test sample.

8. A method according to claim 7, wherein said providing a diagnosis comprises providing one of a binary diagnosis and a probability of said subject having said diagnosis.

9. A method according to any one of the preceding claims, wherein said calibrating is at least partially carried out by processing functionality within at least one of said testing device and the cloud.

10. A testing device comprising:

a test region configured to process therein a test sample obtained from a subject;

a first output region configured to display a measurable indication of a level of at least one analyte in said test sample;

a control region configured to process therein at least one control sample, said control sample being processed in at least near real time with respect to said test sample; and

a second output region configured to display, in at least near real time with respect to said display of said measurable indication of said level of said at least one analyte in said test sample, a measurable indication of at least one level of said at least one analyte in said at least one control sample,

said measurable indication of said at least one level of said at least one analyte in said at least one control sample providing a basis for calibration of said measurable indication of said level of said at least one analyte in said test sample.

11. A system for diagnosing a subject comprising:

a testing device comprising:

a test sample receipt subsystem operative to receive a test sample from a subject, said test sample possibly containing at least one analyte;

a first processing subsystem operative to process said test sample in a test region of said testing device;

a first data output subsystem operative to output, as a result of said processing by said first processing subsystem, a measurable indication of a level of said at least one analyte in said test sample;

a second processing subsystem operative to process, in at least near real time with respect to said processing of said test sample by said first processing subsystem, at least one

control sample containing said least one analyte, in a control region of said testing device; and

a second data output subsystem operative to output, as a result of said processing of said control sample, a measurable indication of at least one level of said at least one analyte in said at least one control sample,

an image acquisition device operative to capture said measurable indications of said levels of said at least one analyte in said test sample and said at least one control sample, and

a data analysis module operative to calibrate said captured measurable indication of said level of said at least one analyte in said test sample based on said captured measurable indication of said at least one level of said at least one analyte in said at least one control sample and to output a diagnosis of said subject based on said calibrated level of said at least one analyte in said test sample.

12. A system according to claim 11, wherein said control sample is separate to and different from said test sample.

13. A system according to claim 11 or claim 12, wherein said test sample comprises a bodily fluid obtained from said subject.

14. A system according to any one of claims 11 - 13, wherein said testing device is a single-use, disposable device.

15. A system according to any one of claims 11 - 14, wherein said measurable indication of said level of said at least one analyte in said test sample and said control sample comprises at least one of a colorimetric indication, an optical indication, an electrical indication and a chemical indication.

16. A system according to claim 15, wherein said data analysis module is operative to perform at least one of:

qualitative calibration based on relative characteristics of said measurable indications of said test sample and control sample, and

quantitative calibration based on relative concentrations of said at least one analyte as derived from said measurable indications of said test sample and control sample.

17. A system according to claim 16, wherein:

said at least one control sample comprises at least two control samples having mutually different concentrations of said analyte therein; and

said data analysis module is operative to find a correlation between said different concentrations of said analyte in said at least two control samples and said measurable indications thereof, and to apply said correlation to said measurable indication of said level of said analyte in said test sample in order to derive said quantitative calibration.

18. A system according to claim 16, wherein said data analysis module is also operative to:

rate a level of said at least one analyte in said test sample based on said calibration, and

provide said diagnosis of said subject from whom said test sample is obtained based on said rated level of said at least one analyte in said test sample.

19. A system according to claim 17, wherein said diagnosis comprises one of a binary diagnosis and a probability of said subject having said diagnosis.

20. A system according to any one of claims 11 - 19, wherein said data analysis module is at least partially incorporated within at least one of said testing device and processing functionality in the cloud.