

Data Interpretation

I. Sample Report:

Summary of glucose results for the current External Quality Assurance (EQA) samples:

October / 2011	Sample	No. of Valid Returns	Mean	SD	Target Range
All Analysers	1	167	8.92	0.99	7.5 - 10.8
	2	171	21.48	1.99	15.3 - 25.3
Accu-chek Performa	1	49	10.22	0.33	9.3 - 10.9
	2	50	19.44	0.58	18.2 - 20.2
Contour TS	1	6	9.32	1.10	7.9 - 10.8
	2	6	18.93	2.71	15.2 - 22.3
Precision PCx	1	40	8.08	0.34	7.4 - 8.8
	2	43	21.88	1.51	18.7 - 25.4
Precision PxP	1	64	8.44	0.45	7.7 - 9.6
	2	64	23.07	1.17	20.2 - 25.5

II. Interpretation:

A power-point presentation can be downloaded to assist your interpretation of external quality control results. You are strongly advised to visit this web site.

Internet:

<http://www.cpy.cuhk.edu.hk/wardmanual/Info/interpretation.htm>

Intranet:

<http://ntec.home> → System → POCT-E QAPS

1. Result for each sample is analysed statistically by group and by analyser type.
2. The group / analyser mean, SD, and Target Range (95% confidence interval) are calculated and listed in the table.
3. Compare your reported value against the appropriate analyser type and sample number.
4. If your analyser type is not listed above, then compare your result to the 'ALL' analyser group.
5. If your QC results are within the Target Range, then your analyser performance is acceptable.
6. The SD of each group reflects the scattering of the results. A smaller SD is desirable as it reflects better analyser and user performance as well as lot-to-lot glucose strip variability.
7. The mean value of each group reflects the trueness of the actual value. Usually the 'ALL' mean value is closer to the true value of the sample because no single method used for POCT can reflect the true value of the EQA samples.
8. The most common error is sample or result swapping. This may happen during measurement or transcribing the results onto the report form. Please exclude it by repeating the analysis. If that is the case, there is no need for trouble-shooting.
9. If your QC result(s) is(are) outside the Target Range by more than 0.2, there is a 5% probability that your instrument is having either random error or systematic error. Random error cannot be prevented. Repeat external QC testing with fresh QC samples supplied by Department of Chemical Pathology.
10. If repeated QC result(s) still fall(s) outside the Target Range by more than 0.2:

Discontinue the use of the problematic stuff (BGA, control solution & blood glucose strips)

For tender BGA - change the defective BGA via NTEC Supplies Department

For non-tendered BGA - change the defective BGA via manufacturers

III. List of Late / No Return (23 Oct 2011):

Hospital	Department	Location
AHNH	COST	CNS
AHNH	EMDU	D1
AHNH	ENT	C1-ENT
AHNH	MED	E1
AHNH	MED	E6
AHNH	O&T	E2
AHNH	O&T	F2
AHNH	O&VS	EYE CLINIC
AHNH	PSY	OPD
NDH	Med	1A
NDH	Mixed Ward	2D
NDH	O&G	3G
NDH	Surg	3C
PWH	Clin Onco	RT OPD
PWH	M&T	12C
PWH	M&T	CIC
PWH	O&G	7E
PWH	Paed	11L
PWH	Surg	8C
PWH	Surg	LUC
SH	COST	COST
SH	M&G	7D
TPH	Psy	1A
UCH	O&T	10B
WSCC	GOPC	FM&GOPC