

義大醫療 醫學檢驗部/檢驗科 公告 (2023年2月)

一、公告義大醫療三院區定量檢驗項目之量測不確定度

依據 ISO15189 實驗室認證規範執行之。

- 1.量測不確定度(Uncertainty of Measurement, MU)：係指一量測結果的分散程度、可能誤差或可能存在的範圍區間。
- 2.依據 ISO15189 實驗室認證規範要求，實驗室應提供使用者量測不確定度之估計值，以幫助使用者評鑑檢驗可信度或影響報告結果。醫學檢驗部定量檢驗項目之量測不確定度如附件。
- 3.範例：

實驗室 Glucose 之兩品管濃度平均值分別為 86 mg/dL 與 285 mg/dL，公告之量測不確定度估計值分別為 2.2% (1.9 mg/dL)及 2.4% (6.84 mg/dL)。若有病人空腹血糖數值為 129 mg/dL，則病人真正結果可能落在 127.1 – 130.9 mg/dL ($129 \pm 2.2\%$)之間；若有血糖數值為 328 mg/dL，病人真正結果可能落在 320.1 – 335.9 mg/dL ($328 \pm 2.4\%$)之間。

醫學檢驗部 定量檢驗量測不確定度一覽表(血液/血凝)

公告日期：2023年2月

表單編號：EDCP-QP-0807/02

	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
1	WBC	3.1	3.8%	3~3.2	16	EO%	9.4	14.2%	8~10.7
		7.0	2.8%	6.8~7.2			10.1	15.0%	8.6~11.6
		16.6	1.8%	16.3~16.9			11.3	13.6%	9.8~12.8
2	RBC	2.6	1.6%	2.6~2.6	17	BASO%	4.8	7.6%	4.4~5.1
		4.3	1.4%	4.3~4.4			4.8	5.8%	4.5~5.1
		5.0	1.2%	4.9~5.1			4.8	5.4%	4.5~5
3	HGB	6.2	1.4%	6.1~6.3	18	NRBC#	0.2	12.6%	0.1~0.2
		11.8	1.2%	11.6~11.9			0.4	9.4%	0.4~0.5
		15.3	1.0%	15.2~15.5			1.1	7.2%	1~1.2
4	HCT	18.6	2.4%	18.1~19	19	MPV	9.05	4.8%	8.6~9.5
		34.4	1.8%	33.8~35.1			9.82	3.2%	9.5~10.1
		44.0	2.0%	43.1~44.9			9.66	2.0%	9.5~9.9
5	MCV	71.4	1.6%	70.2~72.5	20	PDW	7.62	7.0%	7.1~8.2
		79.6	1.4%	78.5~80.7			9.34	8.0%	8.6~10.1
		87.8	1.6%	86.4~89.2			9.29	4.8%	8.8~9.7
6	MCH	23.8	2.0%	23.3~24.3	21	PCT	0.090	13.4%	0.1~0.1
		27.2	1.6%	26.7~27.6			0.252	8.8%	0.2~0.3
		30.6	1.4%	30.1~31			0.570	4.6%	0.5~0.6
7	MCHC	33.3	2.6%	32.5~34.2	22	RET-He	24.3	2.0%	23.8~24.8
		34.1	2.0%	33.4~34.8			25.2	2.2%	24.7~25.8
		34.8	2.0%	34.1~35.5			26.9	2.6%	26.2~27.6
8	PLT	99	8.0%	91.2~107.1	23	PT	11.1	2.9%	10.8~11.5
		257	6.4%	240.3~273.1			29.0	4.0%	27.9~30.2
		589	3.6%	567.6~609.9	24	APTT	27.3	2.8%	26.5~28.1
50.9	1.8%	50~51.8	47.8	3.8%			46~49.6		
9	RDW-SD	47.5	1.2%	46.9~48	25	Fibrinogen	250.2	8.1%	230~270.5
		51.6	1.6%	50.7~52.4			76.8	13.2%	66.7~86.9
		20.1	1.8%	19.7~20.4	26	D-Dimer	0.33	10.1%	0.3~0.4
16.7	1.6%	16.4~17	2.63	13.6%			2.3~3		
10	RDW-CV	16.3	1.4%	16.1~16.5	27	FDP	8.3	19.4%	6.7~9.9
		6.0	5.4%	5.7~6.3			28.0	11.6%	24.8~31.3
		2.6	6.2%	2.4~2.7	28	Protein S	70.5	24.2%	53.4~87.5
1.3	7.6%	1.2~1.4	28.3	20.0%			22.6~33.9		
11	RET%	38.9	6.0%	36.6~41.2	29	Protein C	101.9	7.6%	94.1~109.6
		42.6	4.4%	40.7~44.5			28.7	16.4%	24~33.4
		48.0	3.6%	46.3~49.7	30	Antithrombin III	97.6	15.2%	82.7~112.4
34.3	8.6%	31.4~37.2	30.9	11.0%			27.5~34.2		
12	LYMPH%	29.8	6.4%	27.9~31.7	31	Thrombin Time	19.4	5.5%	18.4~20.5
		24.5	4.4%	23.4~25.6	32	Lupus anticoagulant 1	37.1	5.9%	34.9~39.3
		12.7	20.2%	10.1~15.3	33	Lupus anticoagulant 2	34.0	3.3%	32.9~35.2
13	MONO%	12.8	13.6%	11~14.5	34	LA Normalize ratio	0.99	6.1%	0.9~1.1
		11.4	9.4%	10.3~12.5	35	ESR	9	12.2%	7.5~9.5
		5.1	2.4%	5~5.2			18	7.3%	17.1~19.8
14	HbA1C	9.9	1.5%	9.8~10.1	1/12		64	4.8%	60.7~66.8

醫學檢驗部 定量檢驗量測不確定度一覽表(特殊檢驗/病毒量/血液氣體分析/一般檢驗)

公告日期：2023年2月

表單編號：EDCP-QP-0807/02

	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
1	Anti Beta2-glycoprotein I	55	14.8%	46.9~63.1	34	Osmolality	290.3	1.0%	287.4~293.2
2	Anti Cardiolipin IgG	44	13.2%	38.2~49.8			449	5.2%	425.5~472.5
3	Anti Cardiolipin IgM	57.5	13.0%	50~65	35	U-Osmolality	817	5.0%	776.2~857.9
4	Anti CCP	43	19.0%	34.8~51.2	36	Ca2+	1.8	1.44%	1.8~1.8
5	Anti dsDNA	58.2	24.0%	44.2~72.2			0.8	3.50%	0.8~0.8
6	ENA-I SSA (Ro)	72.8	20.2%	58.1~87.5			1.22	1.64%	1.2~1.2
7	ENA-I SSB (La)	35.7	14.2%	30.6~40.8	37	Cl	47	0.60%	46.7~47.3
8	p-ANCA (MPS)	20.7	11.2%	18.4~23			84.2	1.71%	82.8~85.6
9	c-ANCA (PRS)	16	25.8%	11.9~20.1			136.3	1.03%	134.9~137.7
10	ENA-III Jo-1	35.2	16.2%	29.5~40.9	38	FCOHb	2.4	4.17%	0~6.6
11	ENA-III Scl-70	38.8	18.8%	31.5~46.1			4.6	1.30%	3.3~5.9
12	ENA-II Sm	63.7	15.0%	54.1~73.3	39	FHHb	6.6	0.00%	6.6~6.6
13	ENA-II RNP	55.7	19.8%	44.7~66.7			21.8	0.73%	21.1~22.5
14	Anti-CTD	11.4	26.4%	8.4~14.4	40	FMetHb	1.6	3.75%	0~5.4
15	Anti Ribosomal P IgG	121	26.8%	88.6~153.4			4	1.50%	2.5~5.5
16	單項過敏原 e1	2.64	7.0%	2.5~2.8	41	FO2Hb	89.4	0.02%	89.4~89.4
17	單項過敏原 d1	23.7	11.2%	21~26.4			69.6	0.11%	69.5~69.7
18	IgE	22.7	11.8%	20~25.4	42	K	6.9	1.41%	6.84~7.04
		94.6	9.0%	86.1~103.1			1.9	7.37%	1.76~2.04
		394.7	9.0%	359.2~430.2			4.21	1.66%	4.14~4.28
19	ECP	20	12.6%	17.5~22.5	43	Na	14.2	0.75%	14.09~14.31
		10	11.8%	8.8~11.2			105.3	0.99%	104.3~106.3
20	AMH	2.36	7.8%	2.2~2.5	43	Na	150.2	1.57%	147.8~152.6
		0.67	11.0%	0.6~0.7			162.4	0.78%	161.1~163.7
21	Hb EP- HbA1	97.3	0.2%	97.1~97.5	44	pCO2	22.02	1.16%	21.8~22.3
22	Hb EP- HbA2	2.7	8.6%	2.5~2.9			30.86	2.27%	30.2~31.6
23	Bone Alkaline Phosphatase	12.2	15.2%	10.3~14.1			32.89	4.71%	31.3~34.4
		44.3	12.4%	38.8~49.8	65.78	1.87%	64.6~67		
24	HBV viral load-High PC log (IU/mL)	6.3	1.8%	6.2~6.4	45	pH	7.323	0.13%	7.314~7.332
25	HBV viral load-Low PC log (IU/mL)	2.3	8.4%	2.1~2.5			8.063	0.22%	8.045~8.081
26	HCV viral load-High PC log (IU/mL)	6.32	2.2%	6.2~6.5			7.414	0.18%	7.4~7.428
27	HCV viral load-Low PC log (IU/mL)	2.33	8.4%	2.1~2.5			6.909	0.08%	6.903~6.915
28	HIV viral load-High PC log (copies/mL)	5.09	3.4%	4.9~5.3	46	pO2	111.79	1.32%	110.5~113.1
29	HIV viral load-Low PC log (copies/mL)	3.13	6.2%	2.9~3.3			182.52	2.77%	179.7~185.3
30	CMV viral load -PC log(IU/mL)	3.37	4.6%	3.2~3.5			6.19	21.32%	0~27.5
31	EBV viral load-High PC log(IU/mL)	5.49	3.8%	5.3~5.7			48.07	11.98%	36.1~60.1
32	EBV viral load-Low PC log(IU/mL)	2.64	5.6%	2.5~2.8	47	tHb	7.40	0.00%	7.4~7.4
33	OB (EIA定量)	72.0	8.6%	65.8~78.2			14.59	0.38%	14.5~14.6
		147.0	5.2%	139.4~154.6	48	Ketone	0.68	11.76%	0.6~0.8
								4.15	6.60%

醫學檢驗部 定量檢驗量測不確定度一覽表(生化/免疫)

公告日期：2023年2月

表單編號：EDCP-QP-0807/02

	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
1	ALB	2.6	1.8%	2.6~2.6	21	T-Bil	0.583	4.40%	0.6~0.6
		4.33	2.4%	4.2~4.4			6.708	2.40%	6.5~6.9
2	ALCOH	40.75	15.2%	34.6~46.9	22	IP	1.81	6.8%	1.7~1.9
		140.9	5.8%	132.7~149.1			7.1	3.4%	6.9~7.3
3	ALK-P	95.3	7.4%	88.2~102.4	23	K	2.41	4.2%	2.3~2.5
		659.4	4.8%	627.7~691.1			7.64	3%	7.4~7.9
4	AMY	48.4	3.6%	46.7~50.1	24	Lac	12.426	3.0%	12.1~12.8
		386.0	3.4%	372.9~399.1			51.214	2.6%	49.9~52.5
5	BMG	2964.7	11.2%	2632.7~3296.7	25	LDH	115.6	3.4%	111.7~119.5
		9194.1	11.4%	8146~10242.2			396	2.8%	384.9~407.1
6	BUN	14.39	4.2%	13.8~15	26	LDL-C	63.6	3.8%	61.2~66
		68.8	2.6%	67~70.6			161.7	3.4%	156.2~167.2
7	CA	5.75	3.0%	5.6~5.9	27	Lipase	19.2	17.8%	15.8~22.6
		13.48	2.2%	13.2~13.8			133.4	4.8%	127~139.8
8	GLU	60.7	2.4%	59.2~62.2	28	M-ALB	1.279	13.4%	1.1~1.5
		355.2	2.4%	346.7~363.7			5.149	5.6%	4.9~5.4
9	CK	77.2	3.6%	74.4~80	29	MG	1.12	16.4%	0.9~1.3
		627.1	6.8%	584.5~669.7			4.25	5%	4~4.5
10	Cl	76.8	2.6%	74.8~78.8	30	MYOGLN	55.144	8.4%	50.5~59.8
		121	1.4%	119.3~122.7			259.35	10.8%	231.3~287.4
11	CRE	0.705	7.8%	0.7~0.8	31	NA	663.34	13.60%	573.1~753.6
		5.957	2.8%	5.8~6.1			113.5	1.99%	111.2~115.8
12	CRP	2.505	8.2%	2.3~2.7	32	NH3	159.6	1.6%	157.1~162.1
		75.967	4.8%	72.3~79.6			57.96	12.2%	50.9~65
13	D-Bil	0.235	9.2%	0.2~0.3	33	r-GTP	254.18	3.00%	246.6~261.8
		2.125	6.0%	2~2.3			26.3	6%	24.8~27.8
14	FE	79	4.8%	75.2~82.8	34	Lithium	133.2	3.2%	128.9~137.5
		265.6	1.6%	261.4~269.8			0.612	13.1%	0.5~0.7
15	Ferritin	28.587	8.0%	26.3~30.9	35	G6PD	1.926	3.0%	1.9~2
		196.51	6.4%	183.9~209.1			5.61	7.4%	5.2~6
16	GOT	350.88	7.0%	326.3~375.4	36	T-CHO	14.66	4.2%	14~15.3
		42.5	5.4%	40.2~44.8			107.9	2.2%	105.5~110.3
17	Ceruloplasmin	235.1	2.0%	230.4~239.8	37	TG	279	2.0%	273.4~284.6
		17.551	6.0%	16.5~18.6			95.8	3.2%	92.7~98.9
18	GPT	28.307	5.2%	26.8~29.8	38	TP	228.2	3.0%	221.4~235
		25.4	8.8%	23.2~27.6			4	3.6%	3.9~4.1
19	HDL	180.8	3.2%	175~186.6	39	UA	6.62	2.4%	6.5~6.8
		19.7	7.6%	18.2~21.2			3.39	3.2%	3.3~3.5
20	ICG	45.2	5.4%	42.8~47.6	40	U-Ca	9.58	2.2%	9.4~9.8
		0.1	15.8%	0.1~0.1			6.842	3%	6.6~7.1
		0.5	6.2%	0.5~0.5			10.414	2.8%	10.1~10.7

醫學檢驗部 定量檢驗量測不確定度一覽表(生化/免疫)

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	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
41	U-Cl	93.02	3.2%	90~96	62	CHE	188.3	3.0%	183~194
		192.95	2%	188.3~197.6			323.1	2.8%	314.1~332.1
42	U-CRTN	58.73	3.6%	56.6~60.8	63	ADA	30.17	3.8%	29~31.3
		131.86	4.2%	126.3~137.4			140.81	3.2%	136.3~145.3
43	UIBC	129.6	9.0%	117.9~141.3	64	Glycated albumin	13.7	6.6%	12.8~14.6
		109.3	10.8%	97.5~121.1			36.3	3.2%	35.1~37.5
44	U-K	31.3	3.2%	30.3~32.3	65	BNP	87.93	13.0%	76.5~99.4
		68.51	5%	65.4~71.7			496.91	14.6%	424.4~569.5
45	U-Na	77.03	2.6%	75~79	66	CA125	3388.6	6.8%	3158~3619
		166.86	1.8%	163.9~169.9			16.59	5.8%	15.6~17.6
46	U-P	23.8	4.0%	22.8~24.8	67	CA153	35.583	5.6%	33.6~37.6
		47.165	2.6%	45.9~48.4			79.035	5.6%	74.6~83.5
47	U-TP	19.364	7.2%	18~20.8	68	CEA	12	8.4%	11~13
		56.894	3.4%	55~58.8			37.937	6.8%	35.4~40.5
48	U-Mg	3.809	21.2%	3~4.6	69	CKMB	66.13	7.4%	61.2~71
		8.419	9%	7.7~9.2			2.338	9.4%	2.1~2.6
49	U-UA	15.209	2.2%	14.9~15.5	70	Cortisol	19.104	7.0%	17.8~20.4
		22.69	2%	22.2~23.2			36.748	7.4%	34~39.5
50	U-UN	390.8	3.4%	377.5~404.1	71	Estradiol	4.722	7.8%	4.4~5.1
		717.25	3.2%	694.3~740.2			14.04	7.2%	13~15.1
51	Amphetamine	384.1	9.4%	348~420.2	72	Free T4	48.095	8.8%	43.9~52.3
		648.1	9.4%	587.2~709			3.681	8.2%	3.4~4
52	Benzodiazepine	151.81	15.2%	128.7~174.9	73	FSH	13.985	6.0%	13.1~14.8
		201.31	15.4%	170.3~232.3			34.876	6.8%	32.5~37.2
53	Hapto	79.8	5.4%	75.5~84.1	74	hCG_STAT	59.155	18.4%	48.3~70
		129.6	5.0%	123.1~136.1			177.39	9.0%	161.4~193.4
54	IgA	133.96	4.2%	128.3~139.6	75	hs TroponinI	347.6	6.2%	326~369.2
		215.82	4.2%	206.8~224.9			0.759	7.0%	0.7~0.8
55	IgG	574.4	5.6%	542~607	76	LH	1.3526	5.6%	1.3~1.4
		913.6	4.4%	873~954			2.4524	8.2%	2.3~2.7
56	IgM	59.578	8.6%	54.5~64.7	77		5.371	5.6%	5.1~5.7
		101.64	5.6%	95.9~107.3			22.4	6.6%	20.9~23.9
57	Opiates	231.4	4.6%	220.8~242	78		41.218	6.6%	38.5~43.9
		368.5	7.8%	339.8~397.2			4.609	16.6%	3.8~5.4
58	PreALB	12.383	3.8%	11.9~12.9	79		22.134	9.8%	20~24.3
		23.695	3.8%	22.8~24.6			444.83	4.4%	425.3~464.4
59	RF	30.237	9.4%	27.4~33.1	80		0.0158	17.8%	0.013~0.019
		104.78	4.6%	100~109.6			0.0672	10.6%	0.06~0.074
60	C3	87.95	5.2%	83.4~92.5	81		0.8857	9.0%	0.806~0.965
		156.74	5.8%	147.6~165.8			3.499	6.2%	3.3~3.7
61	C4	14.782	5.4%	14~15.6	82		14.936	6.0%	14~15.8
		26.623	5.6%	25.1~28.1			44.68	6.2%	41.9~47.4

醫學檢驗部 定量檢驗量測不確定度一覽表(生化/免疫)

公告日期：2023年2月

表單編號：EDCP-QP-0807/02

	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
77	Prolactin	3.685	6.6%	3.4~3.9	92	Anti-TPO	22.593	6.6%	21.1~24.1
		12.767	6.8%	11.9~13.6			40.18	5.4%	38~42.3
		45.664	7.8%	42.1~49.2			47.459	6.4%	44.4~50.5
78	SCC	0.101	20.6%	0.1~0.1	93	CA199	37.939	12.4%	33.2~42.6
		2.02	38.4%	1.2~2.8			69.555	10.2%	62.5~76.6
		50.41	9.8%	45.5~55.4			146.23	10.0%	131.6~160.8
79	T3	81.06	9.2%	73.6~88.5	94	CMV IgG	0.153	102.7%	0~0.31
		147.04	7.8%	135.6~158.5			29.6	14.2%	25.4~33.8
		281.78	10.4%	252.5~311.1			153.61	15.4%	130~177.3
80	Testosterone	0.2965	11.2%	0.3~0.3	95	CMV IgM	0.26	47.7%	0.14~0.38
		4.097	7.6%	3.8~4.4			2.331	14.0%	2~2.7
		7.83	8.2%	7.2~8.5			0.948	5.6%	0.9~1
81	TSH	0.05	6.4%	0~0.1	96	C-peptide	3.6148	5.6%	3.4~3.8
		3.6855	4.0%	3.5~3.8			7.6778	6.0%	7.2~8.1
		18.955	4.0%	18.2~19.7			0.6013	10.8%	0.54~0.67
82	TT4	6.5086	8.2%	6~7	97	Free PSA	1.662	9.6%	1.5~1.8
		12.46	9.2%	11.3~13.6			12.728	10.0%	11.5~14
83	AFP	5.999	7.2%	5.6~6.4	98	HAVAb IgG	0.161	100.9%	0~0.32
		69.465	5.4%	65.7~73.2			2.728	12.4%	2.4~3.1
		201.64	5.8%	189.9~213.3			0.1035	70.0%	0.03~0.18
84	HBsAg	0.2968	46.9%	0.16~0.44	99	HAVAb IgM	1.913	16.8%	1.59~2.23
		3.541	17.2%	2.9~4.2			0.075	19.5%	0.1~0.09
85	HBsAg(定量)	0.003	430.0%	0~0.02	100	HBcAb IgM	3.077	10.4%	2.8~3.4
		0.265	17.0%	0.22~0.31			0.3559	18.2%	0.29~0.42
		171.6	13.0%	149.3~193.9			3.6961	13.4%	3.2~4.2
86	HIV	0.058	34.8%	0.04~0.08	102	Rebulla IgG	0.01	2160.0%	0~0.226
		5.013	26.0%	3.7~6.3			29.33	12.4%	25.7~33
		3.309	13.8%	2.9~3.8			319.63	14.0%	274.9~364.4
		3.132	10.2%	2.8~3.5			0.091	80.2%	0~0.2
87	Anti-HBcII	0.36	55.0%	0.16~0.56	103	Rubella IgM	3.4	16.8%	2.8~4
		2.73	18.0%	2.2~3.2			0.857	30.2%	0.6~1.1
88	Anti-HBe	1.92	10.4%	1.7~2.1	104	Progesterone	12.114	13.2%	10.5~13.7
		0.494	11.6%	0.4~0.6			26.38	12.2%	23.2~29.6
89	Anti-HBs	0.02	830.0%	0~0.19	105	ProGRP	42.977	13.2%	37.3~48.6
		14.907	13.2%	12.9~16.9			162.01	9.4%	146.8~177.2
		80.901	13.2%	70.2~91.6			504.39	7.0%	469~540
90	Anti-HCV	0.11	65.5%	0~0.18	106	Total PSA	0.6179	8.6%	0.6~0.7
		3.759	13.4%	3.3~4.3			3.6786	8.4%	3.4~4
91	Anti-Tg	16.59	6.4%	15.5~17.7			22.573	9.8%	20.4~24.8
		24.918	7.2%	23.1~26.7					
		47.18	6.8%	44~50.4					

醫學檢驗部 定量檢驗量測不確定度一覽表(生化/免疫)

公告日期：2023年2月

表單編號：EDCP-QP-0807/02

	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
107	VitD	16.684	9.6%	15.1~18.3	117	Total HCY	11.634	10.8%	10.4~12.9
		23.904	8.2%	21.9~25.9			15.995	11.2%	14.2~17.8
		39.49	7.2%	36.6~42.3			23.612	10.4%	21.2~26.1
108	Carba	4.648	9.6%	4.2~5.1	118	Valp	31.407	10.4%	28.1~34.7
		13.547	8.8%	12.4~14.7			61.785	11.0%	55~68.6
		17.586	9.0%	16~19.2			118.73	10.8%	105.9~131.6
109	Cyclosporin	104.236	17.2%	86.3~122.2	119	Vancomycin	4.86	7.6%	4.5~5.2
		368.990	18.4%	301.1~436.9			21.527	7.6%	19.9~23.2
		968.800	22.6%	749.9~1188			39.904	7.0%	37.1~42.7
110	Digoxin	0.556	9.4%	0.5~0.6	120	Toxo IgG	0.017	517.6%	0~0.11
		1.819	5.6%	1.7~1.9			6.5	10.6%	5.8~7.2
		3.517	4.2%	3.4~3.7			125.7	16.6%	104.8~146.6
111	iPTH	8.49	10.2%	7.6~9.4	121	MTX	0.0716	11.2%	0.1~0.1
		56.374	9.0%	51.3~61.4			0.4316	11.8%	0.4~0.5
		216.08	9.0%	196.6~235.5			0.9698	12.8%	0.8~1.1
112	Pheno	8.72	9.0%	7.9~9.5	122	PCT	0.2	8.2%	0.2~0.2
		18.25	9.4%	16.5~20			1.928	6.2%	1.8~2
		68.364	7.8%	63~73.7			68.068	12.6%	59.5~76.6
113	Pheny	6.032	7.4%	5.6~6.5	123	PIVKA	50.9	10.6%	45.5~56.3
		15.782	7.6%	14.6~17			500.08	8.8%	456.1~544.1
		25.386	7.6%	23.5~27.3			9987.9	8.0%	9188.9~10787
114	Sirolimus	4.984	15.2%	4.2~5.7	124	Folic acid	3.754	22.4%	2.9~4.6
		11.535	12.0%	10.2~12.9			7.368	19.4%	5.9~8.8
		20.194	10.2%	18.1~22.3			17.704	15.8%	14.9~20.5
115	Tacrolimus	4.7	8.8%	4.3~5.1	125	Vit B12	244.3	18.0%	200.3~288.3
		8.03	8.8%	7.3~8.7			462.8	14.2%	397.1~528.5
		17.13	11.2%	15.2~19			925.9	8.8%	844.4~1007.4
116	Theophylline	4.971	12.4%	4.4~5.6					
		12.696	14.6%	10.8~14.5					
		25.319	17.4%	20.9~29.7					

癌治療醫院檢驗科 定量檢驗量測不確定度一覽表(血液/血凝)

公告日期：2023年02月

表單編號：LL-Q062/02-C

	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
1	WBC	3.12	3.80%	3~3.24	12	NEUT%	39.50	5.80%	37.21~41.79
		7.00	2.80%	6.8~7.2			43.41	4.40%	41.5~45.32
		16.14	2.00%	15.82~16.46			47.27	4.00%	45.38~49.16
2	RBC	2.32	1.80%	2.28~2.36	13	LYMPH%	34.72	10.80%	30.97~38.47
		4.23	1.40%	4.17~4.29			29.98	2.28%	29.3~30.66
		5.01	1.20%	4.95~5.07			24.71	8.60%	22.58~26.84
3	HGB	5.35	1.80%	5.25~5.45	14	MONO%	11.49	2.60%	11.19~11.79
		11.23	1.20%	11.1~11.36			11.34	14.80%	9.66~13.02
		14.69	1.00%	14.54~14.84			11.80	11.20%	10.48~13.12
4	HCT	15.91	3.00%	15.43~16.39	15	EO%	9.49	1.34%	9.36~9.62
		32.87	0.88%	32.58~33.16			10.44	13.80%	9~11.88
		42.35	2.40%	41.33~43.37			11.37	14.40%	9.73~13.01
5	MCV	68.70	2.20%	67.19~70.21	16	BASO%	4.80	0.32%	4.78~4.82
		77.73	1.70%	76.41~79.05			4.82	5.40%	4.56~5.08
		84.49	2.00%	82.8~86.18			4.84	3.80%	4.66~5.02
6	MCH	23.09	2.60%	22.49~23.69	17	NRBC#	0.15	0.02%	0.15~0.15
		26.57	1.60%	26.14~27			0.43	9.40%	0.39~0.47
		29.30	1.40%	28.89~29.71			1.07	7.40%	0.99~1.15
7	MCHC	33.63	3.40%	32.49~34.77	18	MPV	8.33	0.48%	8.29~8.37
		34.18	0.96%	33.85~34.51			9.88	3.40%	9.54~10.22
		34.70	0.88%	34.39~35.01			9.73	2.60%	9.48~9.98
8	PLT	93.40	11.40%	82.75~104.05	19	PDW	6.32	0.48%	6.29~6.35
		258.86	8.60%	236.6~281.12			9.25	5.60%	8.73~9.77
		601.32	4.60%	573.66~628.98			9.32	3.80%	8.97~9.67
9	RDW-SD	47.71	2.00%	46.76~48.66	20	PCT	0.08	0.01%	0.08~0.08
		50.23	0.92%	49.77~50.69			0.26	10.20%	0.23~0.28
		50.82	1.80%	49.91~51.73			0.59	6.40%	0.55~0.62
10	RDW-CV	19.97	2.40%	19.49~20.45	21	HbA1c%	5.10	2.92%	4.95~5.25
		18.36	1.80%	18.03~18.69			9.91	1.88%	9.72~10.1
		17.09	1.40%	16.85~17.33	22	PT	11.2	6.3%	10.47~11.87
5.39	5.60%	5.09~5.69	27.9	3.9%			26.77~28.93		
11	RET%	2.30	7.00%	2.14~2.46	23	APTT	27.9	3.3%	27~28.82
		1.17	8.60%	1.07~1.27			46.2	3.2%	44.72~47.72

癌治療醫院檢驗科 定量檢驗量測不確定度一覽表(生化/免疫)

公告日期：2023年02月

表單編號：LL-Q062/02-C

	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
1	Total Protein	4.03	2.6%	3.92~4.13	22	Chloride (Cl)	75.21	4.8%	71.6~78.82
		6.61	1.8%	6.49~6.73			120.33	3.2%	116.48~124.18
2	Albumin	2.54	3.8%	2.44~2.63	23	Lipase	21.69	9.6%	19.61~23.77
		4.33	2.0%	4.24~4.41			124.41	11.6%	109.98~138.84
3	BUN	14.83	3.2%	14.36~15.31	24	LDH	2.85	5.2%	2.7~3
		70.36	2.6%	68.54~72.19			6.24	3.2%	6.04~6.44
4	Creatinine	0.71	7.2%	0.66~0.76	25	CRP	70.26	6.2%	65.91~74.62
		6.01	4.0%	5.77~6.25			2.44	4.2%	2.33~2.54
5	UA	3.46	4.6%	3.3~3.62	26	AFP	5.26	6.4%	4.92~5.592
		9.79	3.8%	9.41~10.16			66.48	8.0%	61.162~71.798
6	Total Bilirubin	0.58	3.0%	0.57~0.6	27	CEA	194.37	8.8%	177.267~211.477
		6.69	2.6%	6.52~6.87			2.45	8.2%	2.248~2.65
7	Direct Bilirubin	0.27	13.8%	0.23~0.31	28	CA199	19.64	5.8%	18.502~20.78
		2.31	7.0%	2.15~2.47			37.54	6.6%	35.065~40.021
8	TG	96.70	2.8%	93.99~99.41	29	Total PSA	36.12	10.2%	32.436~39.804
		229.72	1.6%	226.05~233.4			70.20	12.4%	61.493~78.903
9	Total Cholesterol	108.47	1.8%	106.52~110.42	30	CA125	145.89	11.0%	129.839~161.933
		279.02	1.2%	275.67~282.37			0.611	7.8%	0.564~0.659
10	HDL	20.23	4.2%	19.38~21.08	31	Free T4	3.796	7.6%	3.507~4.084
		49.96	4.6%	47.66~52.26			23.421	8.8%	21.36~25.482
11	LDL	65.65	1.8%	64.46~66.83	32	TSH	16.0	5.8%	15.09~16.948
		166.81	2.8%	162.14~171.48			33.3	6.0%	31.27~35.262
12	Calcium	5.63	5.2%	5.34~5.92	33	hs TroponinI	75.7	6.6%	70.667~80.655
		13.16	4.2%	12.6~13.71			0.80	6.4%	0.75~0.852
13	Phosphrous	1.79	5.6%	1.69~1.89	34	HBsAg	1.41	5.6%	1.335~1.493
		6.98	3.8%	6.72~7.25			2.58	10.0%	2.326~2.842
14	GOT	42.06	2.6%	40.97~43.15	35	Anti-HBs	0.0604	7.0%	0.056~0.065
		238.79	3.6%	230.19~247.39			3.8390	7.4%	3.555~4.123
15	GPT	25.07	4.4%	23.96~26.17	36	Anti-HCV	19.3886	8.2%	17.799~20.978
		179.52	3.2%	173.78~185.27			0.015	12.2%	0.013~0.017
16	r-GTP	25.80	3.6%	24.87~26.73	37	CK-MB	0.049	7.8%	0.045~0.053
		129.74	2.8%	126.11~133.37			0.882	8.2%	0.81~0.955
17	CK	76.91	4.2%	73.68~80.14	38	Anti-HCV	0.3194	0.00186	0.319~0.32
		626.73	2.4%	611.69~641.77			3.72	18.0%	3.05~4.39
18	ALK-P	93.12	7.0%	86.6~99.64	39	Anti-HCV	0	0.0004	0~0
		647.16	4.0%	621.28~673.05			15.45	17.8%	12.7~18.2
19	Glucose	61.36	2.2%	60.01~62.71	40	Anti-HCV	84.18	14.8%	71.721~96.639
		359.78	2.0%	352.59~366.98			0.08	0.00014	0.08~0.08
20	Sodium (Na)	117.51	1.8%	115.39~119.63	41	CK-MB	5.24	0.5%	5.215~5.265
		158.81	1.2%	156.91~160.72			4.6	7.2%	4.303~4.971
21	Potassium (K)	2.40	2.2%	2.35~2.45	42	CK-MB	13.6	7.4%	12.576~14.586
		7.65	1.6%	7.53~7.77			47.1	7.8%	43.445~50.795

癌治療醫院檢驗科 定量檢驗量測不確定度一覽表(血液氣體分析)

公告日期：2023年02月

表單編號：LL-Q062/02-C

	檢驗項目	目標值	量測不 確定度	量測不確定 度估算值		檢驗項目	目標值	量測不 確定度	量測不確定 度估算值
1	PH	6.908	0.12%	6.9~6.92	5	K	6.93	1.32%	6.84~7.02
		7.414	0.20%	7.4~7.43			1.90	0.00%	1.9~1.9
		8.063	0.18%	8.05~8.08			4.20	0.00%	4.2~4.2
		7.320	0.10%	7.31~7.33			14.20	0.92%	14.07~14.33
2	PCO2	65.67	2.88%	63.78~67.56	6	iCa	1.80	1.56%	1.77~1.83
		32.90	6.08%	30.9~34.9			0.80	3.24%	0.77~0.83
		30.71	3.02%	29.78~31.64			1.22	1.80%	1.2~1.24
		22.04	1.78%	21.65~22.43			7	Cl	47.0
3	PO2	104.02	9.04%	94.62~113.42	84.2	1.68%			82.79~85.61
		178.53	4.58%	170.35~186.71	136.7	1.28%	134.95~138.45		
4	Na	53.12	8.70%	48.5~57.74	8	tHb	14.46	0.78%	14.35~14.57
		105.4	1.12%	104.22~106.58			7.40	0.00%	7.4~7.4
		150.1	1.62%	147.67~152.53	9	COHb	2.4	0.84%	2.38~2.42
162.5	0.82%	161.17~163.83	4.6	2.20%			4.5~4.7		

定量檢驗量測不確定度一覽表(血液/血凝/血液氣體分析)

公告日期：2023年02月

表單編號：LL-Q043/02-D

	檢驗項目	目標值	量測不確定度	量測不確定度估算值		檢驗項目	目標值	量測不確定度	量測不確定度估算值
1	WBC	3.08	4.6%	2.9~3.2	16	pH	6.91	0.005%	6.909~6.909
		7.07	3.2%	6.9~7.3			7.32	0.003%	7.320~7.320
		16.75	2.2%	16.4~17.1			7.41	0.009%	7.411~7.413
2	RBC	2.61	2.4%	2.5~2.7	17	pCO ₂	8.06	0.019%	8.053~8.057
		4.31	1.4%	4.2~4.4			21.95	0.0198%	21.946~21.954
		4.97	1.6%	4.9~5.0			31.00	0.0172%	30.995~31.005
3	HGB	6.10	2.2%	6.0~6.2	18	pO ₂	33.03	0.0418%	33.016~33.044
		11.60	1.2%	11.5~11.7			64.30	0.0162%	64.290~64.310
		15.10	1.2%	14.9~15.3			5.81	3.324%	5.617~6.003
4	HCT	18.30	3.2%	17.7~18.9	19	NA ⁺	43.00	3.184%	41.631~44.369
		33.80	2.4%	33.0~34.6			109.62	2.270%	107.132~112.108
		43.10	2.2%	42.2~44.0			178.16	4.034%	170.973~185.347
5	PLT	98.00	7.0%	91~105	20	K ⁺	105.10	0.82%	104.238~105.962
		255.00	4.6%	243~267			151.00	2.06%	147.889~154.111
		590.00	3.0%	572~608			164.40	3.10%	159.304~169.496
6	NEUT%	38.60	2.4%	38.6~38.6	21	Ca ⁺⁺	1.90	0.004%	1.90~1.90
		42.30	1.9%	42.3~42.3			4.22	0.021%	4.219~4.221
		47.60	1.7%	47.6~47.6			7.02	0.012%	7.019~7.021
7	LYMPH%	34.50	3.1%	34.5~34.5	22	CL ⁻	14.53	0.013%	14.529~14.531
		30.00	1.8%	30.0~30.0			0.78	0.02%	0.78~0.79
		25.00	1.1%	25.0~25.0			1.22	0.01%	1.22~1.22
8	MONO%	12.50	2.7%	12.5~12.5	23	tHb	1.81	0.01%	1.81~1.81
		12.50	1.7%	12.5~12.5			46.0	0.01%	45.997~46.003
		11.30	0.9%	11.3~11.3			84.9	0.01%	84.889~84.911
9	EOS%	9.50	1.3%	9.5~9.5	24	O ₂ Hb	138.3	0.01%	138.29~138.32
		10.40	1.6%	10.4~10.4			7.20	0.04%	7.197~7.203
		11.30	1.7%	11.3~11.3			14.42	0.88%	14.29~14.55
10	BASO%	4.80	0.3%	4.8~4.8	25	HHb	69.5	0.00%	69.50~69.50
		4.80	0.2%	4.8~4.8			89.4	0.00%	89.40~89.40
		4.80	0.2%	4.8~4.8			6.6	0.00%	6.60~6.60
11	RET%	6.06	5.4%	6.01~6.10	26	COHb	22.0	0.01%	22.00~22.00
		2.63	4.6%	2.58~2.68			2.30	0.0086%	2.30~2.30
		1.34	7.8%	1.26~1.42			4.50	0.0178%	4.50~4.50
12	HbA1c	5.10	3.2%	5.07~5.13	27	MetHb	1.03	0.0374%	1.03~1.03
		9.90	1.8%	9.88~9.92			4.00	0.0252%	4.00~4.00
13	PT	11.3	1.4%	11.1~11.5					
		28.5	3.7%	27.5~29.5					
14	APTT	28.6	1.8%	28.1~29.1					
		49.2	2.0%	48.2~50.2					
15	D-DIMER	0.31	10.7%	0.28~0.34					
		2.47	4.2%	2.37~2.57					

定量檢驗量測不確定度一覽表(生化/免疫)

公告日期：2023年02月

表單編號：LL-Q043/02-D

	檢驗項目	目標值	量測不確定度	量測不確定度估算值		檢驗項目	目標值	量測不確定度	量測不確定度估算值
1	Total Protein	4.1	2.6%	4.0~4.2	21	Potassium (K)	2.4	3.0%	2.3~2.5
		6.7	1.8%	6.6~6.8			7.7	1.8%	7.6~7.8
2	Albumin	2.59	3.8%	2.5~2.7	22	Chloride (Cl)	75	3.4%	73~78
		4.4	2.4%	4.3~4.5			120	2.4%	117~123
3	BUN	14.9	2.4%	14.5~15.3	23	Urine Creatinine	57.0	7.0%	53~61
		70.5	1.8%	69.2~71.8			126.9	4.2%	122~132
4	Creatinine	0.7	8.8%	0.6~0.8	24	Microalbumin	4.5	6.8%	4.2~4.8
		5.97	3.0%	5.8~6.1			11.7	5.6%	11.0~12.4
5	UA	3.5	3.0%	3.4~3.6	25	CRP	9.2	5.0%	8.7~9.7
		9.9	1.8%	9.7~10.1			74.2	2.6%	72.3~76.1
6	Total Bilirubin	0.58	3.4%	0.6~0.6	26	LDH	118	4.6%	113~123
		6.68	2.2%	6.5~6.8			407	4.6%	388~426
7	Direct Bilirubin	0.23	11.4%	0.20~0.26	27	Lipase	18.7	18.0%	1~37
		2.13	6.8%	1.99~2.27			135	13.8%	116~154
8	TG	98	2.4%	96~100	28	Amy	49	3.8%	45~53
		232	1.6%	228~236			394	2.4%	385~404
9	Total Cholesterol	109	2.2%	107~111	29	U-TP	19.1	10.2%	8.9~29
		280	1.6%	276~285			57.7	4.2%	55.3~60.1
10	HDL	19	6.2%	18~20	30	Lactate	12.5	2.2%	12.2~12.8
		48	5.0%	46~50			51.5	1.0%	51.0~52.0
11	LDL	65	2.4%	63~67	31	NH3	56	12.4%	49.1~62.9
		163	3.4%	158~169			223	4.6%	212.7~233.3
12	Calcium	5.7	4.4%	5.4~6.0	32	Alcohol	41	5.6%	39~43
		13.5	3.4%	13.0~14.0			143	2.0%	140~146
13	Phosphorous	1.8	2.6%	1.8~1.8	33	ZN	63	3.0%	61~65
		7.3	1.8%	7.2~7.4			231	3.4%	223~239
14	GOT	42	5.2%	40~44	34	AFP	5.53	6.2%	5.2~5.9
		240	2.6%	234~246			74.2	5.2%	70.3~78.1
15	GPT	25	5.8%	24~27	35	CEA	199.9	5.8%	188.3~211.5
		178	2.8%	173~183			2.53	9.2%	2.3~2.8
16	r-GTP	27	5.8%	25~29	36	CA199	14.0	7.0%	13.0~15.0
		133	3.2%	129~137			41.7	6.8%	38.9~44.5
17	CK	79	4.4%	76~83	37	Total PSA	30.4	10.8%	27.1~33.7
		644	1.8%	632~656			59.5	9.6%	53.8~65.2
18	ALK-P	98	9.6%	89~107	38	CA125	147.2	11.4%	130.4~164.0
		679	5.6%	641~717			0.64	13.4%	0.6~0.7
19	Glucose	61	2.2%	60~62	39	Total PSA	4.18	11.8%	3.7~4.7
		359	1.2%	355~363			21.6	14.0%	18.6~24.6
20	Sodium (Na)	118	1.6%	116~120	40	CA125	11.3	7.0%	10.5~12.1
		159	1.4%	157~161			40.8	6.2%	38.3~43.3
							99.3	6.6%	92.7~105.9

定量檢驗量測不確定度一覽表(生化/免疫)

公告日期：2023年02月

表單編號：LL-Q043/02-D

	檢驗項目	目標值	量測不確定度	量測不確定度估算值		檢驗項目	目標值	量測不確定度	量測不確定度估算值
39	Free T4	0.55	6.4%	0.5~0.6	49	Testosterone	0.46	9.4%	0.42~0.50
		1.54	4.8%	1.5~1.6			4.01	8.4%	3.67~4.35
		2.47	6.6%	2.3~2.6			10.03	8.0%	9.23~10.83
40	TSH	0.04	6.0%	0.0347~0.0405	50	Homocystein	11.27	7.4%	10.4~12.1
		4.03	5.2%	3.80~4.20			16.31	5.8%	15.4~17.3
		21.53	6.0%	20.2~22.8			22.41	5.4%	21.2~23.6
41	TT3	48.1	8.6%	44~52	51	BNP	90	9.0%	82~98
		131.8	6.2%	124~140			500	11.2%	444~556
		268.9	10.0%	242~296			3500	5.4%	3311~3689
42	iPTH	8.1	11.6%	7.2~9.0	52	CA153	9.6	7.2%	8.9~10.3
		57	7.2%	52.9~61.1			34.0	6.4%	31.8~36.2
		212.5	7.2%	197.2~227.8			61.5	7.8%	56.7~66.3
43	E2	66	12.6%	58~74	53	HBsAg	0.43	0.2%	0.19~0.67
		180	7.8%	166~194			3.5	0.4%	3.1~3.9
		422	5.8%	398~447			1.0	0.2%	0.8~1.2
44	FSH	4.73	5.6%	4.5~5.0	54	Anti-HBs	15.0	2.4%	12.6~17.4
		16.97	5.8%	16~18			80.0	11.6%	68.4~91.6
		40.83	4.6%	39~43			0.3	0.1%	0.24~0.36
45	LH	3.84	4.4%	3.7~4.0	55	Anti-HCV	3.4	0.7%	2.7~4.1
		15.12	4.6%	14.4~15.8			6.8	7.4%	0~14.2
		45.51	4.4%	43.5~47.5			12.0	7.2%	4.8~19.2
46	hCG	3.3	14.4%	2.8~3.8	56	CKMB	41.3	8.2%	33.1~49.5
		22.6	13.4%	19.6~25.6			0.1	16.2%	0~16.3
		507.9	4.8%	483.5~532.3			2.0	6.8%	0~8.8
47	hs TroponinI	0.015	12.4%	0.013~0.017	57	SCC	50	6.2%	43.8~56.2
		0.051	8.4%	0.047~0.055			16.3	6.2%	10.1~22.5
		0.881	8.8%	0.803~0.959			27.7	4.6%	23.1~32.3
48	Prolactin	3.49	9.6%	3.2~3.8	58	Anti-TG(ATA)	55.3	5.4%	49.9~60.7
		11.75	7.0%	10.9~12.6			17.6	6.6%	11.0~24.2
		40.29	6.0%	37.9~42.7			35.9	7.2%	28.7~43.1
					59	Anti-TPO(AMIA)	64.7	5.4%	59.3~70.1