

義大醫療 醫學檢驗部/檢驗科 公告 (2022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：2022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	3.0	4.0%	2.9~3.1	16	EO%	9.4	14.4%	8~10.7
		6.9	3.2%	6.6~7.1			10.6	14.0%	9.2~12.1
		16.1	2.2%	15.8~16.5			11.2	15.2%	9.5~12.9
2	RBC	2.3	2.6%	2.3~2.4	17	BASO%	4.8	8.0%	4.4~5.1
		4.2	1.8%	4.2~4.3			4.8	5.0%	4.6~5
		5.0	2.0%	4.9~5.1			4.8	4.6%	4.6~5
3	HGB	5.7	2.2%	5.6~5.8	18	NRBC#	0.2	13.4%	0.1~0.2
		11.7	1.4%	11.5~11.8			0.4	9.4%	0.4~0.5
		15.0	1.2%	14.8~15.2			1.1	7.4%	1~1.2
4	HCT	16.9	3.4%	16.3~17.4	19	MPV	8.20	4.8%	7.8~8.6
		34.0	3.2%	32.9~35.1			9.88	4.6%	9.4~10.3
		43.0	3.2%	41.7~44.4			9.72	4.4%	9.3~10.1
5	MCV	72.6	2.6%	70.7~74.5	20	PDW	6.06	7.2%	5.6~6.5
		80.3	2.8%	78.1~82.6			8.40	8.4%	7.7~9.1
		86.4	2.8%	84~88.8			9.47	6.4%	8.9~10.1
6	MCH	24.5	2.6%	23.8~25.1	21	PCT	0.073	13.6%	0.1~0.1
		27.6	2.2%	27~28.2			0.247	10.4%	0.2~0.3
		30.1	2.2%	29.4~30.7			0.550	7.0%	0.5~0.6
7	MCHC	33.7	3.2%	32.6~34.7	22	RET-He	25.6	1.6%	25.1~26
		34.3	3.4%	33.1~35.4			25.8	2.4%	25.2~26.4
		34.8	3.2%	33.7~35.9			26.8	2.6%	26.1~27.5
8	PLT	88	9.0%	80.4~96.2	23	PT	10.87	2.5%	10.6~11.1
		251	6.4%	234.6~266.7			25.76	4.8%	24.5~27
		563	3.4%	543.6~581.9	24	APTT	26.41	4.4%	25.2~27.6
9	RDW-SD	50.4	3.2%	48.8~52.1			43.84	4.5%	41.9~45.8
		48.0	2.8%	46.7~49.4	25	Fibrinogen	272.7	11.4%	241.7~303.7
		51.2	3.2%	49.6~52.8			77.6	17.2%	64.3~90.9
10	RDW-CV	19.5	2.0%	19.1~19.9	26	D-Dimer	0.31	11.2%	0.3~0.3
		16.7	1.6%	16.5~17			2.71	16.0%	2.3~3.1
		16.6	1.6%	16.3~16.8	27	FDP	8.58	15.7%	7.2~9.9
11	RET%	5.5	7.0%	5.1~5.9			27.4	8.5%	25.1~29.7
		2.4	8.4%	2.2~2.6	28	Protein S	35.11	18.9%	28.5~41.8
		1.2	9.8%	1.1~1.4			65.35	39.7%	39.4~91.3
12	NEUT%	38.5	5.8%	36.3~40.8	29	Protein C	32.73	17.8%	26.9~38.6
		44.5	4.0%	42.7~46.2			103.3	12.4%	90.5~116.1
		47.5	4.0%	45.6~49.4	30	Antithrombin III	34.55	18.0%	28.3~40.8
13	LYMPH%	36.4	6.2%	34.2~38.7			93.7	4.3%	89.7~97.7
		29.2	4.6%	27.9~30.6	31	Thrombin Time	19.2	4.3%	18.4~20
		25.5	3.4%	24.6~26.4	32	Lupus anticoagulant 1	37.48	4.7%	35.7~39.2
14	MONO%	10.9	18.0%	8.9~12.9	33	Lupus anticoagulant 2	34.42	5.3%	32.6~36.2
		10.9	11.2%	9.7~12.1	34	LA Normalize ratio	0.99	7.0%	0.9~1.1
		11.0	8.6%	10~11.9	35	ESR	7.95	5.5%	7.5~8.4
15	HbA1C	5.0	2.3%	4.9~5.1			17.55	6.8%	16.3~18.8
		10.3	2.6%	10~10.5	1/13		61.25	5.0%	58.2~64.3

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：2022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	61.85	10.6%	55.3~68.4	34	Osmolality	290.6	1.2%	287.1~294.1
2	Anti Cardiolipin IgG	45.65	14.4%	39.1~52.2			460.5	3.1%	446.1~474.9
3	Anti Cardiolipin IgM	59.05	12.0%	52~66.1	35	U-Osmolality	833.4	4.8%	793.4~873.4
4	Anti CCP	41.567	13.8%	35.8~47.3	36	Ca2+	1.8	1.8%	1.8~1.8
5	Anti dsDNA	40.28	20.8%	31.9~48.7			0.8	2.3%	0.8~0.8
6	ENA-I SSA (Ro)	62.04	14.2%	53.2~70.8			1.2	1.5%	1.2~1.2
7	ENA-I SSB (La)	33.17	10.8%	29.6~36.8	37	Cl	46.1	2.0%	45.2~47
8	p-ANCA (MPS)	19.5	12.6%	17~22			84.6	1.5%	83.3~85.9
9	c-ANCA (PRS)	13	26.0%	9.6~16.4			135.8	0.8%	134.7~136.9
10	ENA-III Jo-1	35.05	17.2%	29~41.1	38	FCOHb	2.1	1.0%	1.1~3.1
11	ENA-III Scl-70	168	21.8%	131.4~204.6			4.7	2.1%	2.6~6.8
12	ENA-II Sm	75.87	15.0%	64.5~87.3	39	FHHb	6.6	0.0%	6.6~6.6
13	ENA-II RNP	54.2	17.8%	44.6~63.8			21.6	0.6%	21~22.2
14	Anti-CTD	11.9	20.6%	9.4~14.4	40	FMetHb	1.7	1.2%	0.5~2.9
15	Anti Ribosomal P IgG	100	18.4%	81.6~118.4			4	1.0%	3~5
16	單項過敏原 e1	2.5	12.0%	2.2~2.8	41	FO2Hb	89.4	0.0%	89.4~89.4
17	單項過敏原 d1	19.13	13.8%	16.5~21.8			69.7	0.1%	69.6~69.8
18	IgE	19	8.4%	17.4~20.6	42	K	7.0	0.2%	6.99~7.01
		101.5	7.2%	94.2~108.8			2.07	4.4%	1.98~2.16
		415	8.8%	378.5~451.5			4.3	0.9%	4.26~4.34
19	ECP	21	13.0%	18.3~23.7			13.92	0.6%	13.83~14.01
		13	11.0%	11.6~14.4	43	Na	105.9	0.5%	105.4~106.4
20	AMH	2.675	6.8%	2.5~2.9			150.8	1.0%	149.3~152.3
		0.765	7.4%	0.7~0.8			163	0.5%	162.2~163.8
21	Hb EP- HbA1	97.4	0.2%	97.2~97.6	44	pCO2	63.82	1.4%	63~64.7
22	Hb EP- HbA2	2.6	5.4%	2.5~2.7			33.23	4.6%	31.7~34.8
23	Bone Alkaline Phosphatase	10.8	12.8%	9.4~12.2			31.3	3.5%	30.2~32.4
		41.4	10.4%	37.1~45.7			21.12	3.1%	20.5~21.8
24	HBV viral load-High PC log (IU/mL)	6.3	1.4%	6.2~6.4	45	pH	6.91	0.1%	6.899~6.917
25	HBV viral load-Low PC log (IU/mL)	2.3	7.2%	2.1~2.5			7.41	0.2%	7.398~7.42
26	HCV viral load-High PC log (IU/mL)	6.32	1.8%	6.2~6.4			8.05	0.2%	8.036~8.07
27	HCV viral load-Low PC log (IU/mL)	0.22	7.2%	0.2~0.2			7.32	0.0%	7.316~7.324
28	HIV viral load-High PC log (copies/mL)	4.95	3.8%	4.8~5.1	46	pO2	109.79	2.4%	107.4~112.2
29	HIV viral load-Low PC log (copies/mL)	3.01	7.2%	2.8~3.2			178.16	2.4%	175.8~180.5
30	CMV viral load -PC log(IU/mL)	3.28	5.6%	3.1~3.5			5.62	79.3%	0~84.9
31	EBV viral load-High PC log(IU/mL)	5.5	3.4%	5.3~5.7			31.33	13.9%	17.4~45.2
32	EBV viral load-Low PC log(IU/mL)	2.65	15.0%	2.3~3	47	tHb	14.39	0.1%	14.4~14.4
33	OB (EIA定量)	75.0	8.8%	68.4~81.6			7.42	0.1%	7.4~7.4
		146.0	4.8%	139~153	48	Ketone	0.68	11.8%	0.6~0.8
							4.17	8.3%	3.8~4.5

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：2022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	2.4	1.6%	2.4~2.4	22	K	2.59	3.60%	2.5~2.7
		4.32	2.2%	4.2~4.4			7.56	1.80%	7.4~7.7
2	ALCOH	35.48	13.2%	30.8~40.2	23	Lac	12.9	3.2%	12.5~13.3
		152.6	4.8%	145.3~159.9			52.6	2.8%	51.1~54.1
3	ALK-P	82.9	8.8%	75.6~90.2	24	LDH	118.1	3.4%	114.1~122.1
		609.8	3.6%	587.8~631.8			397.6	3%	385.7~409.5
4	AMY	50.5	4.2%	48.4~52.6	25	LDL-C	64	3.4%	61.8~66.2
		395.4	2.8%	384.3~406.5			159.6	3%	154.8~164.4
5	BMG	2560.4	10%	2304.4~2816.5	26	Lipase	19.2	16.6%	16~22.4
		2651	17.8%	2179.1~3122.9			109.8	8.8%	100.1~119.5
6	BUN	14.67	5.6%	13.8~15.5	27	M-ALB	1.72	16.8%	1.4~2
		66.71	3.4%	64.4~69			6.24	11.2%	5.5~6.9
7	CA	5.83	2.8%	5.7~6	28	MG	1.17	16.6%	1~1.4
		12.96	2%	12.7~13.2			4.17	4.8%	4~4.4
8	GLU	57.3	2.2%	56~58.6	29	MYOGLN	55.76	6.2%	52.3~59.2
		341	2%	334.2~347.8			257.4	6.4%	240.9~273.9
9	CK	73	4.4%	69.8~76.2			656.15	8.6%	599.7~712.6
		619.8	2.6%	603.7~635.9	30	Ferritin	29.337	6%	27.6~31.1
10	Cl	73.1	3%	70.9~75.3			185.75	6.8%	173.1~198.4
		122	2%	119.6~124.4			394.53	7.8%	363.8~425.3
11	CRE	0.672	8.4%	0.6~0.7	31	NH3	68	7.20%	63.1~72.9
		5.958	2.8%	5.8~6.1			299.2	3.20%	289.6~308.8
12	CRP	2.789	7%	2.6~3	32	r-GTP	25.9	5.8%	24.4~27.4
		76.711	3.6%	73.9~79.5			128	3.8%	123.1~132.9
13	D-Bil	0.243	10.4%	0.2~0.3	33	Lithium	0.615	15.90%	0.5~0.7
		2.159	5%	2.1~2.3			1.923	3%	1.9~2
14	FE	76.5	4%	73.4~79.6	34	G6PD	5.45	4.8%	5.2~5.7
		242.5	1.8%	238.1~246.9			14.42	3.4%	13.9~14.9
15	NA	114.4	1.84%	112.3~116.5	35	T-CHO	107.8	2.6%	105~110.6
		160.2	1.42%	157.9~162.5			279.9	2.2%	273.7~286.1
16	GOT	38.5	7%	35.8~41.2	36	TG	98.1	3.4%	94.8~101.4
		237.7	2.4%	232~243.4			216.2	3.2%	209.3~223.1
17	GPT	29.4	9%	26.8~32	37	TP	3.71	2.6%	3.6~3.8
		181	3.2%	175.2~186.8			6.53	2.2%	6.4~6.7
18	HDL	19.8	4.2%	19~20.6	38	UA	3.07	3.4%	3~3.2
		47.2	6%	44.4~50			9.57	2.6%	9.3~9.8
19	ICG	0.1	20.4%	0.1~0.1	39	U-Ca	6.24	3.6%	6~6.5
		0.49	24.6%	0.4~0.6			10.53	2.8%	10.2~10.8
20	T-Bil	0.608	4.4%	0.6~0.6	40	U-Cl	97.8	2.6%	95.3~100.3
		6.737	2.4%	6.6~6.9			198	2%	194~202
21	IP	1.84	7.2%	1.7~2	41	U-CRTN	55.175	3.8%	53.1~57.3
		7.09	4.4%	6.8~7.4			129.85	3.8%	124.9~134.8

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：2022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
42	UIBC	121.3	10.8%	108.2~134.4	63	Glycated albumin	13.5	7.6%	12.5~14.5
		112.7	12%	99.2~126.2			36.2	3%	35.1~37.3
43	U-K	30.38	3.8%	29.2~31.5	64	BNP	87.5	14%	75.3~99.8
		70.49	5.4%	66.7~74.3			465.6	14.6%	397.6~533.6
44	U-Na	82.6	2.8%	80.3~84.9			3309.3	8.2%	3038~3581
		173.3	1.2%	171.2~175.4	65	CA125	13.872	7.2%	12.9~14.9
45	U-P	24.95	6.8%	23.3~26.6			35.775	5.4%	33.8~37.7
		47.75	3%	46.3~49.2			72.222	5.2%	68.5~76
46	U-TP	17.742	8.2%	16.3~19.2	66	CA153	12	8.4%	11~13
		53.146	4.2%	50.9~55.4			39.02	9.4%	35.4~42.7
47	U-Mg	3.93	20.4%	3.1~4.7			89.23	9.2%	81~97.4
		8.09	8.6%	7.4~8.8	67	CEA	2.572	9.4%	2.3~2.8
48	U-UA	14.49	2.4%	14.1~14.8			16.959	5.4%	16~17.9
		22.78	2.4%	22.2~23.3			50.397	5.6%	47.6~53.2
49	U-UN	375.95	3.4%	363.2~388.7	68	CKMB	4.19	8.4%	3.8~4.5
		727.7	3%	705.9~749.5			13.652	7.6%	12.6~14.7
50	Amphetamine	379.4	8.4%	347.5~411.3			37.791	6.4%	35.4~40.2
		619.8	8%	570.2~669.4	69	Cortisol	53.9	17%	44.7~63.1
51	Benzodiazepine	153.09	13.4%	132.6~173.6			15.62	7.2%	14.5~16.7
		204.2	11.2%	181.3~227.1			31.69	6%	29.8~33.6
52	Hapto	72.6	6.2%	68.1~77.1	70	Estradiol	53.9	17.4%	44.5~63.3
		137.3	6.4%	128.5~146.1			174.1	7.2%	161.6~186.6
53	IgA	116.06	6.6%	108.4~123.7			437.6	6.4%	409.6~465.6
		219.63	6.4%	205.6~233.7	71	Free T4	0.663	7.4%	0.6~0.7
54	IgG	555.8	6%	522~589			1.484	6%	1.4~1.6
		961.97	5%	914~1010			2.738	7.8%	2.5~3
55	IgM	52.374	7.6%	48.4~56.4	72	FSH	5.867	6.4%	5.5~6.2
		102.95	4.8%	98~107.9			14.618	6%	13.7~15.5
56	Opiates	221.9	5.6%	209.5~234.3			39.359	5.8%	37.1~41.6
		368	5.4%	348.1~387.9	73	hCG_STAT	4.62	15%	3.9~5.3
57	PreALB	11.745	3.4%	11.3~12.1			28.137	9%	25.6~30.7
		23.093	3.6%	22.3~23.9			418.58	4.6%	399.3~437.8
58	RF	29.771	8.8%	27.2~32.4	74	hs TroponinI	0.0157	14.2%	0.013~0.018
		103.53	5.4%	97.9~109.1			0.0654	11.8%	0.058~0.073
59	C3	82.98	4.2%	79.5~86.5			1.1988	13%	1.043~1.355
		157.51	4.4%	150.6~164.4	75	LH	4.054	5%	3.9~4.3
60	C4	13.51	5.2%	12.8~14.2			14.932	4.6%	14.2~15.6
		27.78	6.4%	26~29.6			40.195	4.8%	38.3~42.1
61	CHE	156.9	3.0%	152~162	76	Prolactin	4.203	5.6%	4~4.4
		307.3	2.4%	299.9~314.7			12.614	3.8%	12.1~13.1
62	ADA	30.3	6.2%	28.4~32.2			47.14	4.4%	45.1~49.2
		143.1	3.2%	138.5~147.7					

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：2022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	SCC	0.1	0%	0.1~0.1	92	CA199	37.663	12%	33.1~42.2
		1.94	7.4%	1.8~2.1			67.319	9.2%	61.1~73.5
		50.06	6.8%	46.7~53.5			167.44	9%	152.4~182.5
78	T3	59.196	11.2%	52.6~65.8	93	CMV IgG	0.09	137.33%	0~0.21
		142.75	6.4%	133.6~151.9			28.73	13.4%	24.9~32.6
		262.06	9.6%	236.9~287.2			159.07	15.6%	134.3~183.9
79	Testerone	0.372	12.6%	0.3~0.4	94	CMV IgM	0.2	25.00%	0.15~0.25
		4.015	8.4%	3.7~4.4			2.217	8.6%	2~2.4
		9.456	7.6%	8.7~10.2	95	C-peptide	0.983	8.6%	0.9~1.1
80	TSH	0.0503	6%	0~0.1			4.033	7.6%	3.7~4.3
		3.6116	4.6%	3.4~3.8			8.015	6.4%	7.5~8.5
		18.386	5.4%	17.4~19.4	96	Free PSA	0.389	6.8%	0.36~0.42
81	TT4	7.242	6.6%	6.8~7.7			3.02	7.6%	2.8~3.2
		15.22	9%	13.9~16.6			18.114	10%	16.3~19.9
82	AFP	5.32	6.2%	5~5.6	97	HAVAb IgG	0.089	31.46%	0.06~0.12
		72.262	6.2%	67.8~76.7			2.208	12%	1.9~2.5
		191.12	6.6%	178.5~203.7	98	HAVAb IgM	0.1322	86.23%	0.02~0.25
83	_HBsAg	0.3361	46.9%	0.18~0.49			2.053	16.2%	1.72~2.39
		3.577	10.6%	3.2~4	99	HBcAb IgM	0.0758	20.58%	0.1~0.09
84	_HBsAg Auto	0.002	430%	0~0.01			3.402	10.4%	3~3.8
		0.233	16.6%	0.19~0.27	100	HBeAg	0.3413	30.9%	0.24~0.45
		164.29	10.6%	146.9~181.7			3.6613	13.4%	3.2~4.2
85	_HIV	0.054	42%	0.03~0.08	101	Rebulla IgG	0.01	2060%	0~0.216
		5.357	23%	4.1~6.6			28.08	12%	24.7~31.4
		3.592	22%	2.8~4.4			319.04	15%	271.2~366.9
		3.027	10.8%	2.7~3.4	102	Rubella IgM	0.094	85.53%	0~0.2
86	Anti-HBcII	0.21	44.76%	0.12~0.3			3.46	16.8%	2.9~4
		2.68	13.6%	2.3~3	103	Progesterone	0.805	17.6%	9.1~11.1
87	Anti-HBe	1.983	7.6%	1.8~2.1			10.401	12.8%	19.2~22.9
		0.49	9.6%	0.4~0.5			22.404	12.2%	38.4~47.1
88	Anti-HBs	0.05	384.00%	0~0.24	104	ProGRP	42.924	10.4%	147~173.9
		15.105	10.8%	13.5~16.7			161.53	8.6%	2313~2682
		80.051	12%	70.4~89.7			2489	7%	0.5~0.6
89	Anti-HCV	0.06	26.67%	0~0.08	105	Total PSA	0.7353	8.4%	3.7~4.3
		3.839	18.2%	3.1~4.5			5.0011	10.6%	19~22.7
90	Anti-Tg	15.537	10.2%	14~17.1			20.879	11.2%	18.4~21.9
		23.29	10.6%	20.8~25.8	106	VitD	17.7	8.8%	23.6~27.4
		44.989	10.8%	40.1~49.8			23.543	8%	50.7~58.8
91	Anti-TPO	21.29	10.2%	19.1~23.5			40.46	7%	4.6~5.6
		28.636	9%	26.1~31.2					
		60.191	9%	54.8~65.6					

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：2022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	Carba	4.637	8.8%	4.2~5	115	Theophylline	5.0207	12%	4.4~5.6
		9.511	9%	8.7~10.4			11.504	13%	10~13
		16.632	9%	15.1~18.1			25.835	10%	23.3~28.4
108	Cyclosporin	102.14	19.2%	82.5~121.8	116	Total HCY	13.818	6%	13~14.6
		368.07	18.4%	300.3~435.8			17.839	5.8%	16.8~18.9
		953.98	19.6%	767~1141			24.744	6%	23.3~26.2
109	Digoxin	0.5972	12.6%	0.5~0.7	117	Valp	30.734	10.4%	27.5~33.9
		1.858	7.6%	1.7~2			60.477	9.6%	54.7~66.3
		3.256	6.4%	3~3.5			119.62	10.2%	107.4~131.8
110	iPTH	8.76	12.8%	7.6~9.9	118	Vancomycin	4.855	7.8%	4.5~5.2
		57.584	11%	51.2~63.9			17.514	6.8%	16.3~18.7
		216.78	9.8%	195.5~238			40.524	7.2%	37.6~43.4
111	Pheno	8.214	9.8%	7.4~9	119	Toxo IgG	0.011	674.5%	0~0.09
		16.675	9.2%	15.1~18.2			6.5	10.2%	5.8~7.2
		67.781	9.8%	61.1~74.4			125.1	17.2%	103.6~146.6
112	Pheny	6.066	7%	5.6~6.5	120	MTX_原倍	0.0716	11.6%	0.1~0.1
		13.815	8.8%	12.6~15			0.4415	12%	0.4~0.5
		24.111	7.2%	22.4~25.8			0.9802	13.2%	0.9~1.1
113	Sirolimus	4.713	9.4%	4.3~5.2	121	PCT	0.2	7.8%	0.2~0.2
		11.081	9.8%	10~12.2			1.971	5.2%	1.9~2.1
		19.704	8.4%	18~21.4			68.293	7.6%	63.1~73.5
114	Tacrolimus	4.38	15.0%	3.7~5	122	PIVKA	50.3	11%	44.8~55.8
		7.56	16.0%	6.4~8.8			497.27	9.6%	449.5~545
		16.11	18.8%	13.1~19.1			9840.8	12.2%	8640.2~11041.4

癌治療醫院檢驗科 定量檢驗量測不確定度一覽表(血液)

公告日期：2022 年 02 月

表單編號：LL-Q062-002(01)-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	3.1	4.6%	2.9~3.2	15	EO%	9.3	14.8%	7.9~10.7
		7.0	3.4%	6.7~7.2			10.7	16.0%	9~12.4
		16.4	2.4%	16~16.8			11.3	14.4%	9.7~12.9
2	RBC	2.3	1.8%	2.2~2.3	16	BASO%	4.8	8.0%	4.4~5.1
		4.2	2.0%	4.1~4.3			4.8	5.4%	4.6~5.1
		5.0	1.6%	4.9~5			4.8	4.6%	4.6~5
3	HGB	5.7	1.8%	5.6~5.8	17	NRBC#	0.2	13.4%	0.1~0.2
		11.8	1.4%	11.6~11.9			0.4	9.0%	0.4~0.5
		15.1	1.0%	15~15.3			1.1	5.4%	1~1.2
4	HCT	16.5	3.0%	16~17	18	MPV	8.2	4.8%	7.8~8.6
		33.9	2.8%	32.9~34.8			9.9	3.2%	9.6~10.2
		43.2	2.0%	42.3~44.1			9.8	2.8%	9.5~10
5	MCV	72.7	1.8%	71.4~74	19	PDW	6.1	8.2%	5.6~6.6
		80.6	1.6%	79.3~81.9			9.5	5.2%	9~9.9
		87.0	1.4%	85.8~88.2			9.5	4.0%	9.2~9.9
6	MCH	24.9	2.0%	24.4~25.4	20	PCT	0.1	15.8%	0.1~0.1
		28.0	1.4%	27.6~28.4			0.3	8.6%	0.2~0.3
		30.5	1.6%	30~30.9			0.6	5.6%	0.5~0.6
7	MCHC	34.2	3.2%	33.1~35.3	21	HbA1c%	5.0	2.6%	4.9~5.2
		34.7	2.4%	33.9~35.6			10.0	2.7%	9.8~10.3
		35.0	2.0%	34.3~35.7					
8	PLT	90.9	9.2%	82.5~99.3					
		259.8	6.2%	243.7~275.9					
		583.1	3.6%	562.1~604.1					
9	RDW-SD	50.3	2.0%	49.3~51.3					
		47.5	1.8%	46.7~48.4					
		50.7	1.6%	49.9~51.5					
10	RDW-CV	19.7	2.2%	19.2~20.1					
		16.8	1.6%	16.5~17.1					
		16.6	1.4%	16.3~16.8					
11	RET%	5.6	5.4%	5.3~5.9					
		2.4	7.4%	2.2~2.6					
		1.2	8.2%	1.1~1.3					
12	NEUT%	38.6	5.4%	36.5~40.7					
		44.3	4.4%	42.4~46.3					
		47.5	3.8%	45.7~49.3					
13	LYMPH%	36.0	6.8%	33.6~38.5					
		28.8	4.8%	27.4~30.2					
		25.1	3.4%	24.2~25.9					
14	MONO%	11.4	17.0%	9.4~13.3					
		11.4	11.4%	10.1~12.7					
		11.4	7.4%	10.5~12.2					

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： 2022 年 02 月

表單編號：LL-Q062-002(01)-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	3.7	3.2%	3.6~3.8	22	Chloride (Cl)	73	4.2%	104.4~107.8
		6.5	2.4%	6.4~6.7			121	2.4%	82.4~85.6
2	Albumin	2.3	4.4%	2.2~2.4	23	Lipase	19	17%	31.7~40.9
		4.3	2.6%	4.2~4.4			109	11.8%	58.1~75.1
3	BUN	15.0	4.8%	14.3~15.7	24	LDH	116	5%	77.3~83.7
		68.3	4.4%	65.3~71.3			393	3.8%	328.9~350.7
4	Creatinine	0.68	7.2%	0.6~0.7	25	CRP	6.18	4.2%	8.2~9.2
		6.12	4%	5.9~6.4			75.60	2%	58.5~61.9
5	UA	3.1	4.6%	3~3.3	26	AFP	5.32	6.8%	3.5~4.2
		9.6	3.2%	9.3~9.9			70.28	6.6%	68.9~77.3
6	Total Bilirubin	0.60	5.6%	0.6~0.6			186.13	7%	181.9~210.1
		6.71	3.6%	6.5~6.9	27	CEA	3.18	9%	1.9~2.4
7	Direct Bilirubin	0.25	13.8%	0.22~0.29			21.69	8.2%	20.2~24.2
		2.33	5.8%	2.19~2.46			51.77	7.6%	43.2~52
8	TG	97	5.4%	91.9~102.4	28	CA199	44.25	13%	28.4~37
		213	4%	204.2~221.2			67.78	13%	60.3~76.1
9	Total Cholesterol	109	3.2%	105.3~112.2			241.40	13%	147.5~182.5
		282	2.8%	274.1~289.8	29	Total PSA	0.593	9.6%	0.5~0.6
10	HDL	21	6.6%	19.5~22.3			3.405	11%	3.7~4.4
		50	8.2%	46.2~54.4			24.120	10.4%	18.5~23.5
11	LDL	66	3%	64.3~68.3	30	CA125	15.9	6.6%	13.6~17.2
		163	2.8%	158.9~168			44.0	6.2%	31.9~38.1
12	Calcium	5.8	6%	5.44~6.13			102.6	6.8%	66.9~78.5
		12.8	4.2%	12.23~13.3	31	Free T4	0.59	6.0%	0.6~0.7
13	Phosphrous	1.8	9.8%	1.6~2			1.36	5%	1.4~1.5
		7.1	5.6%	6.7~7.5			2.48	9.8%	2.4~2.9
14	GOT	39	5%	37.4~41.3	32	TSH	0.0538	9%	0.036~0.042
		241	3.6%	232.8~250.2			3.7760	5.2%	3.2~3.6
15	GPT	30	4.8%	28.4~31.2			18.3130	5.6%	16.1~18.1
		183	3.2%	177.3~189	33	hs TroponinI	0.021	13%	0.012~0.015
16	r-GTP	26	4.8%	24.4~26.8			0.047	13.4%	0.038~0.048
		125	2.6%	122~128.6			1.618	12.6%	1.71~2.222
17	CK	73	5.4%	69.4~77.4	34	_HBsAg	0.425	0.1558%	0.2692~0.5808
		616	4.8%	586.3~645.4			3.55	14%	3.1~4
18	ALK-P	81	7.4%	74.1~88.9	35	Anti-HBs	1	0.174%	0.826~1.174
		593	6.2%	587.1~599.5			15.22	15%	12.9~17.5
19	Glucose	58	3.6%	56.1~60.3			81.41	15.2%	69~93.8
		348	3.2%	337~359.2	36	Anti-HCV	0.3	0.016%	0.284~0.316
20	Sodium (Na)	114	1.8%	112~116.1			3.42	17.4%	2.82~4.02
		160	1.2%	157.8~161.7	37	CK-MB	3.8	17.8%	3.09~4.43
21	Potassium (K)	2.6	2.8%	2.5~2.7			12.3	20.8%	9.77~14.89
		7.5	1.4%	7.4~7.6			35.1	23%	27.04~43.2

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：2022 年 02 月

表單編號：LL-Q062-002(01)-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	6.910	0.0%	6.907~6.913	5	K	7.00	0.8%	6.94~7.06
		7.406	0.2%	7.393~7.419			1.97	4.9%	1.87~2.07
		8.055	0.2%	8.039~8.071			4.21	1.6%	4.14~4.28
		7.315	0.1%	7.305~7.325			14.30	0.8%	14.19~14.41
2	PCO2	64.55	1.9%	63.32~65.78	6	iCa	1.80	1.1%	1.78~1.82
		33.43	4.4%	31.96~34.9			0.80	2.7%	0.78~0.82
		30.79	2.7%	29.96~31.62			1.20	1.2%	1.19~1.21
		21.00	0.0%	21~21	7	Cl	46.0	0.3%	45.8~46.2
3	PO2	110.73	4.2%	106.1~115.36			85.1	1.4%	83.9~86.3
		179.69	2.7%	174.77~184.61			138.4	1.2%	136.8~140
		31.55	12.7%	27.54~35.56	8	tHb	14.39	0.4%	14.33~14.45
4	Na	106.0	0.5%	105.5~106.5			7.40	0.4%	7.37~7.43
		150.7	1.3%	148.7~152.7	9	COHb	2.4	0.8%	2.4~2.4
		162.5	0.7%	161.4~163.6			4.6	1.7%	4.5~4.7

定量檢驗量測不確定度一覽表(血液/血凝)

公告日期：2022 年 02 月

表單編號：LL-Q043/02-D

	檢驗項目	目標值	擴充量測 不確定度	量測不確定 度估算值		檢驗項目	目標值	擴充量測 不確定度	量測不確定 度估算值
1	WBC	3.09	4.2%	3.0~3.2	13	PT(a)	10.8	1.6%	10.6~11.0
		7.01	3.2%	6.8~7.2			26.6	3.7%	25.6~27.6
		16.44	2.2%	16.1~16.8	14	APTT(a)	27.1	1.8%	26.6~27.6
2	RBC	2.35	1.8%	2.3~2.4			15	D-DIMER(a)	44.7
		4.26	1.2%	4.2~4.3	0.32	8.1%			0.29~0.35
		4.99	1.2%	4.9~5.0	2.7	7.9%	2.49~2.91		
3	HGB	5.70	1.6%	5.6~5.8	16	PT(b)	11	2.0%	10.8~11.2
		11.80	1.0%	11.7~11.9			28.1	3.4%	27.1~29.1
		15.10	0.8%	15.0~15.2	17	APTT(b)	27.0	1.4%	26.6~27.4
4	HCT	17.00	3.4%	16.4~17.6			18	D-DIMER(b)	48.3
		34.40	2.8%	33.4~35.4	0.30	8.1%			0.29~0.35
		43.40	2.6%	42.3~44.5	2.70	8.2%	2.43~2.87		
5	PLT	91.00	7.6%	84.1~97.9	說明： 本實驗室於2021/11/08更換操作CS-1600血凝機台， 故新舊機台皆執行量測不確定度統計估算。 (a)儀器為Sysmex CA-1500;統計區間為2021/01/01~2021/11/08 (b)儀器為Sysmex CS-1600;統計區間為2021/11/08~2021/11/08				
		252.00	5.4%	238.4~265.6					
		568.00	3.6%	547.6~588.4					
6	NEUT%	38.20	2.5%	38.17~38.23					
		43.90	1.7%	43.88~43.92					
		46.90	1.6%	46.88~46.92					
7	LYMPH%	36.80	2.5%	36.78~36.82					
		29.30	1.5%	29.28~29.32					
		25.30	1.2%	25.29~25.31					
8	MONO%	11.20	2.0%	11.18~11.22					
		11.30	1.1%	11.29~11.31					
		11.50	1.1%	11.49~11.51					
9	EOS%	9.20	1.4%	9.19~9.21					
		10.70	1.5%	10.69~10.71					
		11.50	1.8%	11.48~11.52					
10	BASO%	4.70	0.3%	4.7~0.7					
		4.80	0.3%	4.8~4.8					
		4.80	0.2%	4.8~4.8					
11	RET%	6.09	7.2%	6.02~6.16					
		2.58	8%	2.50~2.66					
		1.33	9.4%	1.24~1.42					
12	HbA1c	5.00	2.9%	4.97~5.03					
		10.00	2.8%	9.97~10.03					

定量檢驗量測不確定度一覽表(生化/免疫)

公告日期：2022 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	3.7	2.0%	3.6~3.8	21	Potassium (K)	2.6	2.4%	2.5~2.7
		6.5	1.8%	6.4~6.6			7.5	1.0%	7.4~7.6
2	Albumin	2.3	3.4%	2.2~2.4	22	Chloride (Cl)	72	2.4%	70.3~73.7
		4.3	1.0%	4.3~4.3			121	1.6%	119.1~122.9
3	BUN	15.1	3.2%	14.6~15.6	23	Urine Creatinine	54.9	3.8%	52.8~57.0
		68.7	2.0%	67.3~70.1			124.6	4.4%	119.1~130.1
4	Creatinine	0.68	7.0%	0.6~0.7	24	Microalbumin	2.7	14.8%	2.3~3.1
		6.03	2.4%	5.9~6.2			7.5	11.8%	6.6~8.4
5	UA	3.2	6.2%	3.0~3.4	25	CRP	6.18	7.4%	5.7~6.6
		9.7	2.4%	9.5~9.9			76.17	3.4%	73.6~78.8
6	Total Bilirubin	0.59	7.8%	0.5~0.6	26	LDH	116	4.2%	111.8~120.2
		6.75	2.8%	6.6~6.9			393	4.2%	376.5~409.5
7	Direct Bilirubin	0.25	17.8%	0.21~0.29	27	Lipase	18	22.6%	0~40.6
		2.35	5.2%	2.23~2.47			115	12.2%	101.0~129.0
8	TG	103	7.4%	95.4~110.6	28	Amy	50	2.8%	47.2~52.8
		221	4.0%	212.2~229.8			395	1.8%	387.9~402.1
9	Total Cholesterol	109	1.6%	107.3~110.7	29	U-TP	17.1	21.4%	0~38.5
		280	1.2%	276.6~283.4			51.9	7.2%	48.2~55.6
10	HDL	20	6.8%	18.6~21.4	30	Lactate	13.3	4.2%	12.7~13.9
		50	8.0%	46.0~54.0			52.9	1.4%	52.2~53.6
11	LDL	65	2.8%	63.2~66.8	31	NH3	66	15.2%	56.0~76.0
		160	2.8%	155.5~164.5			252	5.0%	239.4~264.6
12	Calcium	5.9	3.8%	5.7~6.1	32	Alcohol	34	11.6%	30.1~37.9
		13	2.2%	12.7~13.3			146	4.8%	139.0~153.0
13	Phosphorous	1.8	10.4%	1.6~2.0	33	ZN	61.4	3.2%	59.4~63.4
		7.1	3.4%	6.9~7.3			244	2.6%	237.7~250.3
14	GOT	38	5.0%	36.1~39.9	34	AFP	5.53	6.4%	5.2~5.9
		238	3.2%	230.4~245.6			74.22	5.0%	70.5~77.9
15	GPT	29	4.8%	27.6~30.4	35	CEA	199.93	5.0%	189.9~209.9
		179	3.6%	172.6~185.4			2.53	10.2%	2.3~2.8
16	r-GTP	26	5.8%	24.5~27.5	36	CA199	14.0	7.0%	13.0~15.0
		125	3.2%	121.0~129.0			41.67	6.8%	38.8~44.5
17	CK	74	5.0%	70.3~77.7	37	Total PSA	30.4	12.8%	26.5~34.3
		628	2.6%	611.7~644.3			59.53	12.0%	52.4~66.7
18	ALK-P	87	8.6%	79.5~94.5	38	CA125	147.2	12.2%	129.2~165.2
		626	6.4%	585.9~666.1			0.64	10.4%	0.6~0.7
19	Glucose	58	2.0%	56.8~59.2	39	Total PSA	4.18	9.4%	3.8~4.6
		347	1.0%	343.5~350.5			21.6	11.2%	19.2~24.0
20	Sodium (Na)	114	1.2%	112.6~115.4	40	CA125	11.31	9.4%	10.2~12.4
		160	1.0%	158.4~161.6			40.77	9.0%	37.1~44.4
							103.87	9.4%	94.1~113.6

定量檢驗量測不確定度一覽表(生化/免疫)

公告日期：2022 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	0.554	14%	0.5~0.6	49	Testosterone	0.46	12.4%	0.40~0.52
		1.536	7.6%	1.4~1.7			4.01	9.2%	3.64~4.38
		2.47	10%	2.2~2.7			10.03	7.6%	9.27~10.79
40	TSH	0.037	5.2%	0.0347~0.0405	50	Homocystein	11.56	6.4%	10.82~12.30
		3.8	5%	3.6~4.0			16.63	7.6%	15.37~17.89
		20.06	4.8%	19.1~21.0			22.99	7.4%	21.29~24.69
41	TT3	48.07	12.2%	42.2~53.9	51	BNP	90	17.6%	74.2~105.8
		131.8	6.2%	123.6~140.0			500	17.4%	413~58
		268.92	8.6%	245.8~292.0			3500	9.8%	3157~3843
42	iPTH	8.1	11.4%	7.2~9.0	52	CA153	9.95	11.4%	8.82~11.08
		57	9.2%	51.8~62.2			37.85	8.6%	34.59~41.11
		212.5	9%	193.4~231.6			64.15	9.6%	57.99~70.31
43	E2	62.8	12.6%	54.9~70.7	53	HBsAg	0.425	0.26%	0.165~0.685
		176.1	5.8%	165.9~186.3			3.5	0.38%	3.12~3.88
		412.8	5.8%	388.9~436.7			1.0	0.18%	0.82~1.18
44	FSH	4.73	6%	4.4~5.0	54	Anti-HBs	15.0	2.0%	13.0~17.0
		16.97	5.8%	16.0~18.0			80.0	11.4%	68.6~91.4
		40.83	6.2%	38.3~43.4	55	Anti-HCV	0.3	0.02%	0.28~0.32
45	LH	3.92	6%	3.7~4.2			3.42	0.6%	2.82~4.02
		15.12	5%	14.4~15.9			6.83	7.6%	0~14.43
		44.1	5%	41.9~46.3	56	CKMB	12.02	6.4%	5.62~18.42
46	hCG	3.6	13.6%	3.1~4.1			41.3	6.6%	34.7~47.9
		25.13	7.8%	23.2~27.1	57	SCC	0.1	0.0%	0.1~0.1
		526.9	5%	500.6~553.2			2	8.00%	0~10
47	hs TroponinI	0.015	16%	0.013~0.017			50	5.80%	44.2~55.8
		0.051	13.8%	0.044~0.058	58	Anti-TG(ATA)	16.3	11.4%	4.9~27.7
		0.881	12.8%	0.768~0.994			27.65	12.85%	14.85~40.45
48	Prolactin	3.49	6%	3.28~3.70			55.33	14%	41.33~69.33
		11.75	6.8%	10.95~12.55	59	Anti-TPO(AMIA)	17.55	8.6%	8.95~26.15
		40.29	8%	37.07~43.51			34.13	8.2%	25.93~42.33
							64.7	8.4%	56.3~73.1

定量檢驗量測不確定度一覽表(Blood Gas)

公告日期：2022 年 02 月

表單編號：LL-Q043/02-D

	檢驗項目	目標值	擴充量測 不確定度	量測不確定 度估算值		檢驗項目	目標值	擴充量測 不確定度	量測不確定 度估算值
1	PH	6.91	0.0088%	6.906~6.908	6	Ca ⁺⁺	1.81	0.013%	1.81~1.81
		7.41	0.0100%	7.408~7.410			0.78	0.023%	0.78~0.78
		8.04	0.016%	8.040~8.042			1.20	0.027%	1.2~1.2
		7.32	0.007%	7.318~7.320	7	CL ⁻	46.90	0.010%	46.90~46.91
2	PCO ₂	64.99	0.0140%	64.981~64.999			84.60	0.014%	84.59~84.61
		33.11	0.0406%	33.097~33.123			134.40	0.011%	134.39~134.42
		31.83	0.0294%	31.821~31.839	8	tHb	14.41	0.08%	14.40~14.42
		21.10	0.0284%	21.094~21.106			7.40	0.04%	7.40~7.40
3	PO ₂	109.34	3.478%	105.54~113.14	9	O ₂ Hb	89.40	0.00%	89.4~89.4
		175.58	8.582%	160.51~190.65			69.70	0.00%	69.70~69.70
		5.81	4.302%	5.56~6.06	10	HHb	6.60	0.00%	6.6~6.6
		28.15	4.256%	26.95~29.35			21.70	0.006%	21.70~21.70
4	NA ⁺	105.20	0.88%	104.27~106.13	11	COHb	2.40	0.00%	2.4~2.4
		150.80	1.82%	148.06~153.55			4.60	0.65%	4.60~4.60
		163.90	1.20%	161.93~165.87	12	MetHb	1.60	0.00%	1.6~1.6
5	K ⁺	7.00	0.004%	7.0~7.0			4.00	0.025%	4.00~4.00
		1.97	0.048%	1.969~1.971					
		4.26	0.024%	4.259~4.261					
		14.51	0.007%	14.509~14.511					