



仁愛醫療財團法人
JEN-AI HOSPITAL

膀胱癌診療指引

2010年07月13日制定

2011年05月11日一修

2012年02月15日二修

2013年02月20日三修

2014年02月26日四修

2015年03月11日五修

2016年03月09日六修

2017年03月08日七修

2018年03月07日八修

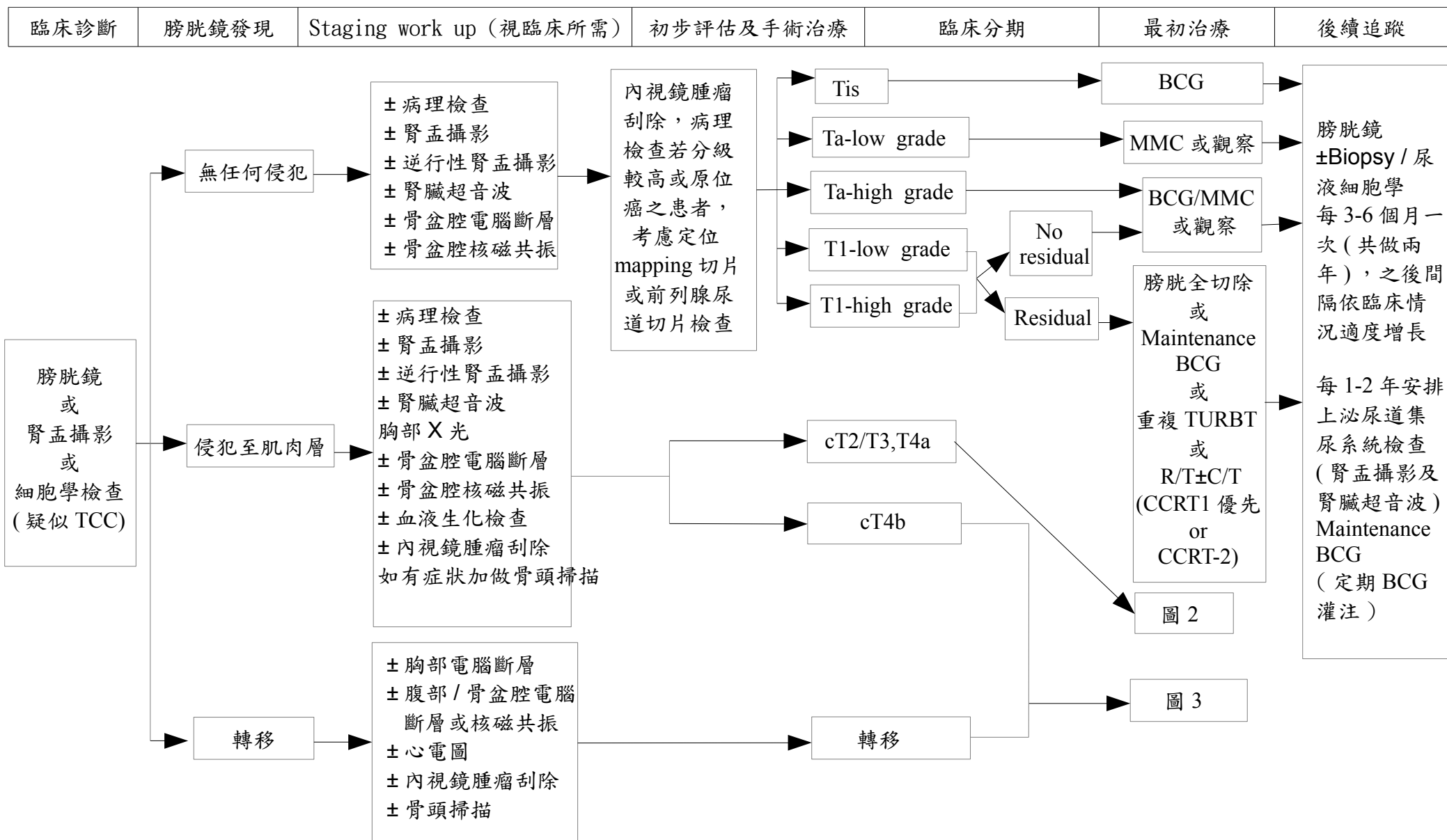
泌尿道癌醫療團隊共同修訂

修訂原則

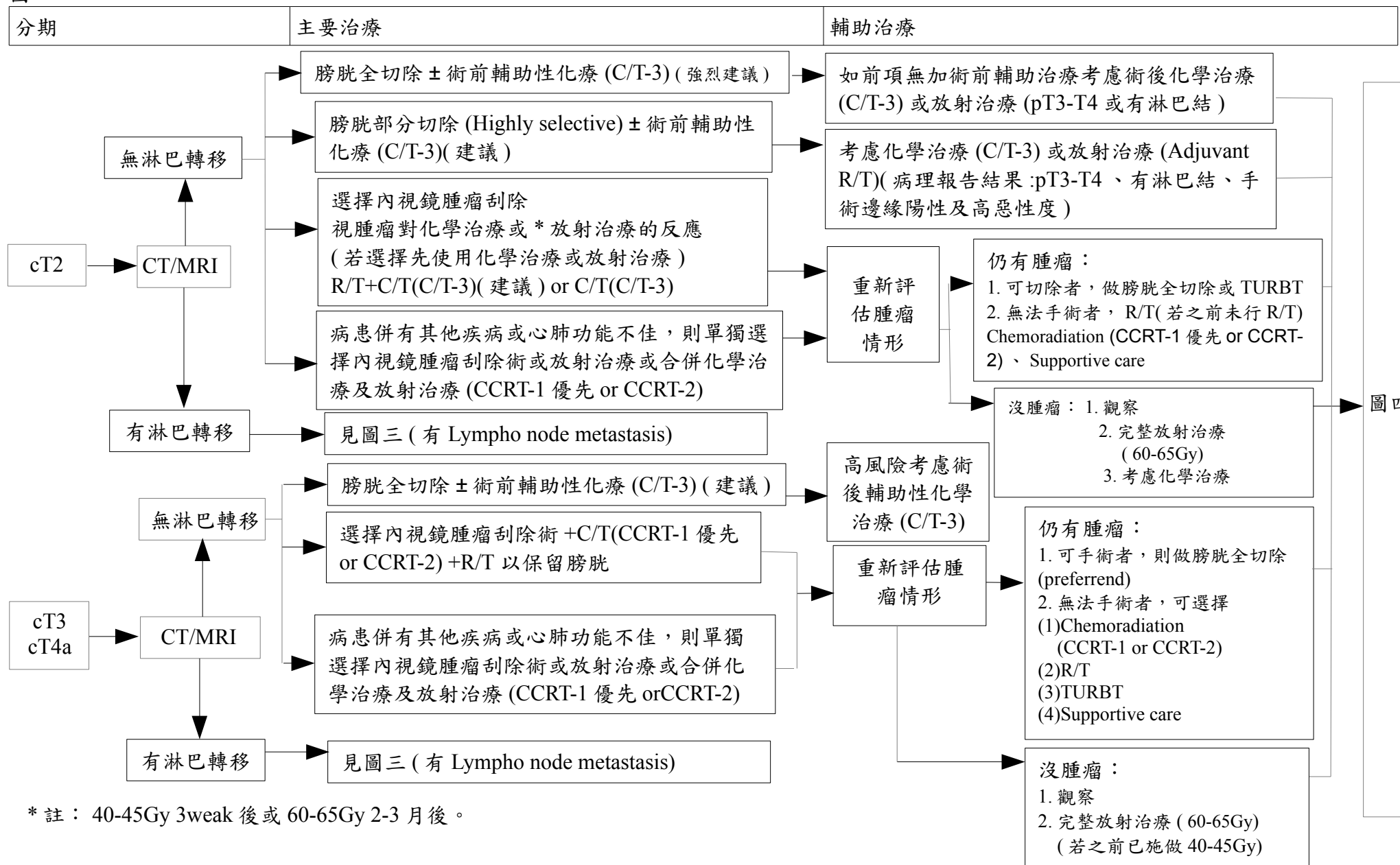
- 參與修訂科別：泌尿外科、腫瘤治療科、放射診斷科、病理科、血液腫瘤科

- 診療指引需符合以下原則：
 - 一、依據實證醫學精神，並於指引中註明主要參考文獻（至少為 peer review article），若引用醫院之資料庫資料，則需提供分析及討論紀錄。
 - 二、參酌國情並經院內共識討論，且有相關會議紀錄佐證。
 - 三、定期檢視改版（至少每年一次，且明確標示制訂或修訂日期）。
 - 四、團隊共識後所訂之指引，應提送癌委會核備後公告。

圖一



圖二

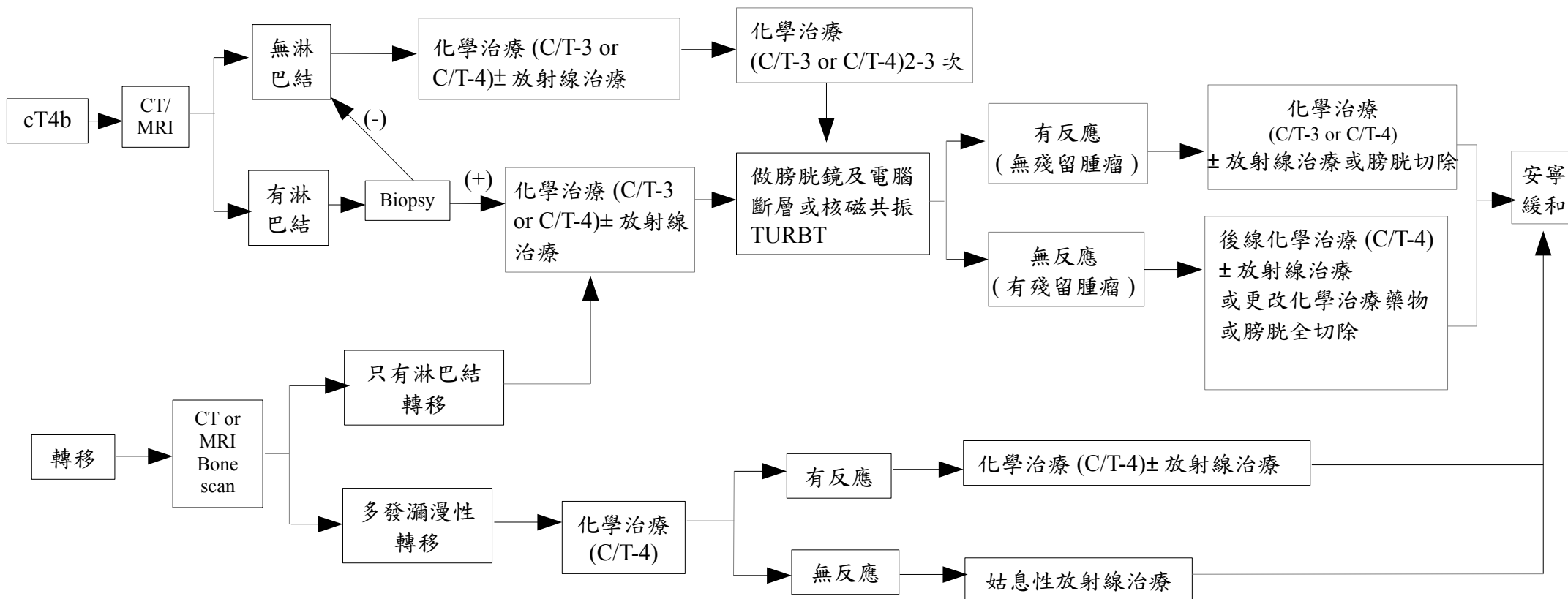


圖四

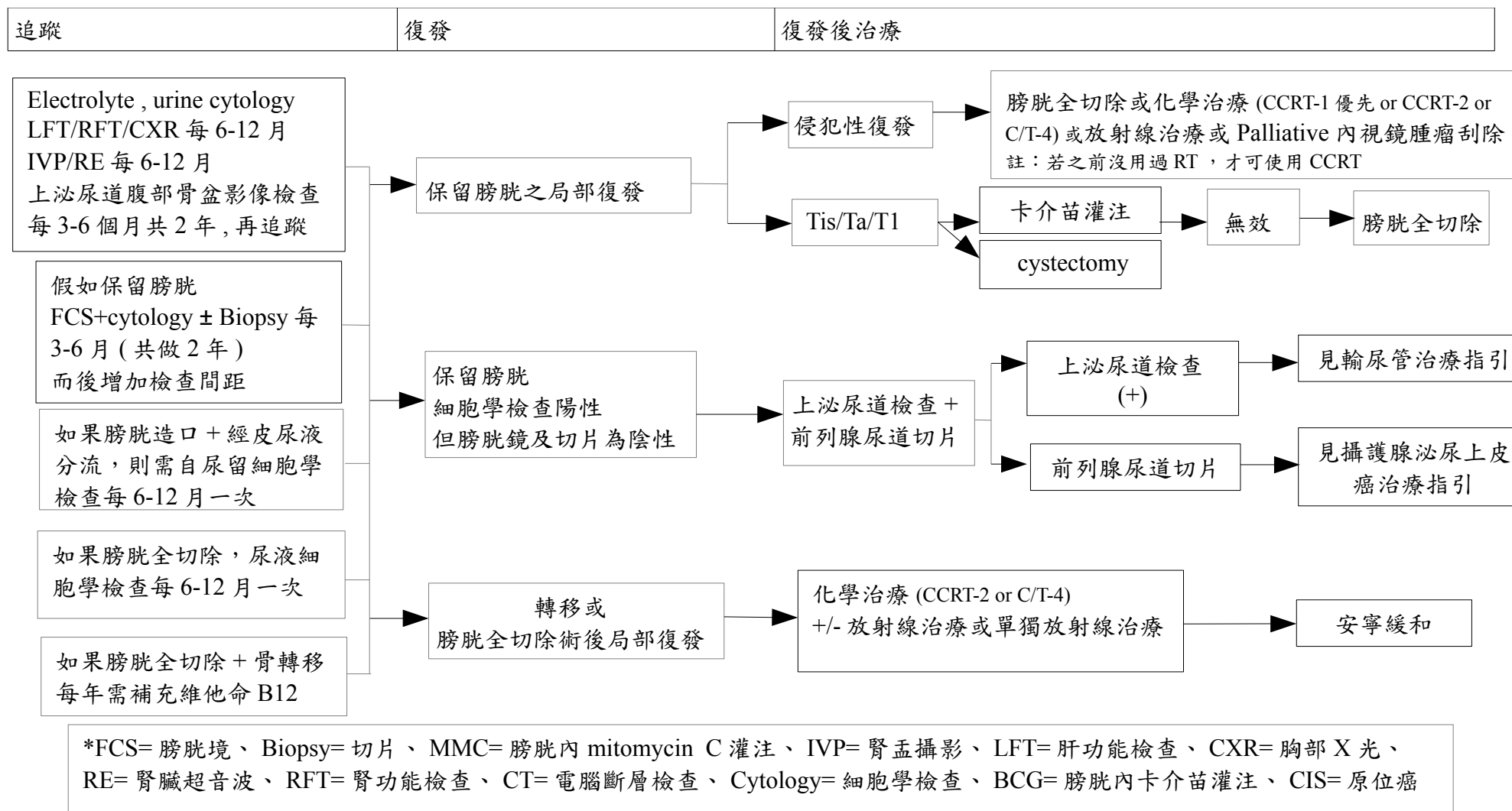
* 註：40-45Gy 3weak 後或 60-65Gy 2-3 月後。

圖三

分期	主要治療	輔助治療
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圖四：追蹤侵犯肌肉層之腫瘤(stage T2-T4)



膀胱癌化療處方 Chemotherapy regimen		
治療目的	組套編碼	處方內容
CCRT-1 (bladder-preserving CCRT followed a maximal TURBT)	UBRT-1	Cisplatin + Fluorouracil/RT²⁵ Cisplatin 20 mg/m ² /day in NS 300 ml IV over 1 hour, days 1-5 Fluorouracil 375 mg/m ² /day in NS 500 ml IV CI 24 hours, days 1-5 During wk 1 and 5 of XRT
	UBRT-3	Weekly Cisplatin/RT³³ Cisplatin 30 mg/m ² in NS 300 ml IV over 1 hour, days 1,8,15,22,29,36 weekly * 6 cycles
	UBRT-5	Mitomycin-C + Fluorouracil/RT^{25,34} Mitomycin-C 12mg/m ² in NS 100 ml IV 10 min, day 1 Fluorouracil 500mg/m ² /day in NS 500 ml IV CI 24 hours, days 1-5 & 22-26
	UBRT-6	Low-dose Gemcitabine/RT³⁴ Gemcitabine 75mg/m ² in NS 100 ml IV 30 min, Weekly with a median dose of 63 GY radiation therapy
CCRT-2 (palliation of metastases or for pelvic recurrence after cystectomy)	UBRT-3	Weekly Cisplatin/RT^{26,33} Cisplatin 30 mg/m ² in NS 300 ml IV over 1 hour, days 1,8,15,22,29,36 weekly * 6 cycles
	UBRT-1	Cisplatin + Fluorouracil/RT²⁵ Cisplatin 20 mg/m ² /day in NS 300 ml IV over 1 hour, days 1-5 Fluorouracil 375 mg/m ² /day in NS 500 ml IV CI 24 hours, days 1-5 During wk 1 and 5 of XRT

	UBRT-5	Mitomycin-C + Fluorouracil/RT²⁵ Mitomycin-C 12mg/m ² in NS 100 ml IV10 min, day 1 Fluorouracil 500mg/m ² /day in NS 500 ml IV CI 24 hours, days 1-5 & 22-26
	UBRT-6	Low-dose Gemcitabine/RT³⁴ Gemcitabine 75mg/m ² in NS 100 ml IV 30 min,Weekly during radiation therapy
	UBRT-7	Capecitabine/RT³⁵ Capecitabine 1600mg/m ² /day PO in two divided doses. Monday through Friday concurrent radiation therapy(RT)
Chemotherapy-3 Neo-adjuvant Adjuvant	UBNA01	CG regimen^{1(v)}³⁷ Gemcitabine 1000mg/m ² in NS 100 ml IV over 30 minutes, days 1,8,15 Cisplatin 70mg/m ² in NS 300 ml IV over2 hours, day 1 Repeat every 28 days x 4 cycles
	UBNA02	CMV regimen²³ Methotrexate 30 mg/m ² in NS 100 ml IV 15minutes, days 1,8 Vinblastine 4 mg/m ² in NS 100 ml IV 10minutes , days 1,8 Cisplatin 100mg/m ² in NS 300 ml IV over2 hour, day 2 Folinic acid 15mg (oral or IV) Q6H x 4 doses, 24hrs after MTX on D2&9 ; given after hydration,with the dose 24 hours after the previous days dose of methortrexate Repeat every 21 days x 3 cycles
	UBNA03	DDMVAC with growth factor support^{38,39} Methotrexate 30 mg/m ² in NS 100 ml IV 15minutes, days 1 Vinblastine 3 mg/m ² in NS 100 ml IV 10minutes , days 2 Doxorubicine 30 mg/m ² in NS 100 ml IV 15minutes, days 2 Cisplatin 70mg/m ² in NS 300 ml IV over 2 hour, day 2

		Repeat every 14 days x 3-4 cycles with Pegfigrastim 6 mg SC 24-48 hours after completion of chemotherapy or G-CSF 240ug/m ² SQ for 7 consecutive days (days 4 through 10).May be extended for up to a total of 14consecutive days.
Chemotherapy-4 Adjuvant	UBA01	MEC for CCr >60 cc/min MTX 30 mg/m ² in NS 100 ml IVD 1 hour, day 1 Epirubicin 30 mg/m ² in NS 100 ml IVD 1 hour, day 2 Cisplatin 70 mg/m ² in NS 100 ml IVD 1 hour, day 2 Mannitol 200 ml full run after half dose of Cisplatin, day 2
	UBA01-1	MEC for CCr 40-60 cc/min MTX 30 mg/m ² in NS 100 ml IVD 1 hour, day 1 Epirubicin 30 mg/m ² in NS 100 ml IVD 1 hour, day 2 Cisplatin 35 mg/m ² in NS 100 ml IVD 1 hour, day 2,3 Mannitol 200 ml full run after half dose of Cisplatin, day 2,3
	UBA01-2	MEC for CCr 30-40 cc/min MTX 30 mg/m ² in NS 100 ml IVD 1 hour, day 1 Epirubicin 30 mg/m ² in NS 100 ml IVD 1 hour, day 2 Carboplatin 250 mg/m ² in NS 100 ml IVD 1 hour, day 2 Mannitol 200 ml full run after half dose of Carboplatin, day 2
	UBA01-3	MEC for CCr 15-30 cc/min MTX 30 mg/m ² in NS 100 ml IVD 1 hour, day 1 Carboplatin 200 mg/m ² in NS 100 ml IVD 1 hour, day 2 Mannitol 200 ml full run after half dose of Carboplatin, day 2

Chemotherapy-5 Metastasis	UBP01	CG regimen(v)⁴ Gemcitabine 1000mg/m ² in NS 100 ml IV over 30 minutes, days 1,8,15 Cisplatin 70mg/m ² in NS 300 ml IV over 6 hours, day 1 Repeat every 28 days for a maximum x 6 cycles
	UBP02	DDMVAC with growth factor support^{39,40} Methotrexate 30 mg/m ² in NS 100 ml IV 15minutes, days 1 Vinblastine 3 mg/m ² in NS 100 ml IV 10minutes , days 2 Doxorubicine 30 mg/m ² in NS 100 ml IV 15minutes, days 2 Cisplatin 70mg/m ² in NS 300 ml IV over 2 hour, day 2 Repeat every 14 days x 3-4 cycles with Pegfigrastim 6 mg SC 24-48 hours after completion of chemotherapy or G-CSF 240ug/m ² SQ for 7 consecutive days (days 4 through 10).May be extended for up to a total of 14consecutive days.
	UBP03	Paclitaxel/Cisplatin⁴¹ Paclitaxel 135 mg/m ² in NS 500ml IV over 3 hours Cisplatin 70mg/m ² in NS 300 ml IV over 2 hour Repeat every 3 weeks for a maximum of 6 cycles
	UBP04	Paclitaxel/Gemcitabine⁴² Paclitaxel 200 mg/m ² in NS 500ml IV 1 hour,day 1 Gemcitabine 1000mg/m ² in NS 100 ml IV over 30 minutes, days 1,8,15 Repeat every 21 days
	UBP05	Paclitaxel/Carboplatin/Gemcitabine⁴³

	<p>Paclitaxel 200 mg/m² in NS 500ml IV over 3 hours, day 1 Carboplatin AUC 5 in NS 250ml IV over 60 minutes, days 1 Gemcitabine 800mg/m² in NS 100 ml IV over 30 minutes, days 1,8 Repeat every 21 days</p>
UBP06	<p>Paclitaxel/Cisplatin/Gemcitabine^{44,45} Cisplatin 70mg/m² in NS 300 ml IV over 2 hour, day 1 Paclitaxel 80 mg/m² in NS 500ml IV over 1 hours, day 1,8 Gemcitabine 1000mg/m² in NS 100 ml IV over 30 minutes, days 1,8 Cycles repeated every 21 days to a maximum x 6 cycles</p>
UBP07	<p>Docetaxel/Gemcitabine/ Cisplatin⁴⁶ Docetaxel 35 mg/m² in NS 250ml IV over 60 minutes, day 1,8 Gemcitabine 800mg/m² in NS 100 ml IV over 30 minutes, days 1,8 Cisplatin 35mg/m² in NS 300 ml IV over 1 hour, day 1,8 Repeat every 21 days</p>
UBP08	<p>Docetaxel⁴⁷ Docetaxel 100 mg/m² in NS 250ml IV over 1 hour Repeat every 21 days</p>
UBP09	<p>Paclitaxel⁴⁸ Paclitaxel 80 mg/m² in NS 500ml IV over 1 hour, weekly A cycle of therapy consisted of four weekly treatments.</p>
UB-IRRI01	<p>Mitomycin-C⁴⁹ Mitomycin-C dilute in NS 60ml remain in bladder for at least 1 hour</p>

Radiation therapy				
Treatment type	RT technique	Total dose	Fraction size / # Fractions	Note
Neoadjuvant RT T3b or T4	Conventionally Fractionated RT (IMRT & IGRT)	45-50Gy to UB	1.8-2Gy/ fraction	
Adjuvant RT	Conventionally Fractionated RT (IMRT & IGRT)	45-50.4 Gy to UB (or pelvic node) 55-65Gy to tumor bed (sparing small intestine)	1.8-2Gy/ fraction	Indications : (1)Extravesicle disease (2)Postive surgical margin (3)Postive pelvic lymph node (4)Locally advanced disease(T3-T4) (5)High grade tumors
Radical radiotherapy (post TURBT) T2-T4	Conventionally Fractionated RT (IMRT & IGRT)	45Gy to pelvic node 45-50.4 Gy to UB 60-70.2 Gy to primary tumor (+/- gross residual tumor)	1.8-2Gy/ fraction	(6)recurrent disease

註：實際治療分次劑量 × 總治療次數，應與處方劑量差異在±1Gy 內。

註：放射治療詳細流程請參照 膀胱癌放射治療標準政策與執行規範。