ELEKTA Precise PLAN
肺癌计划应用体会

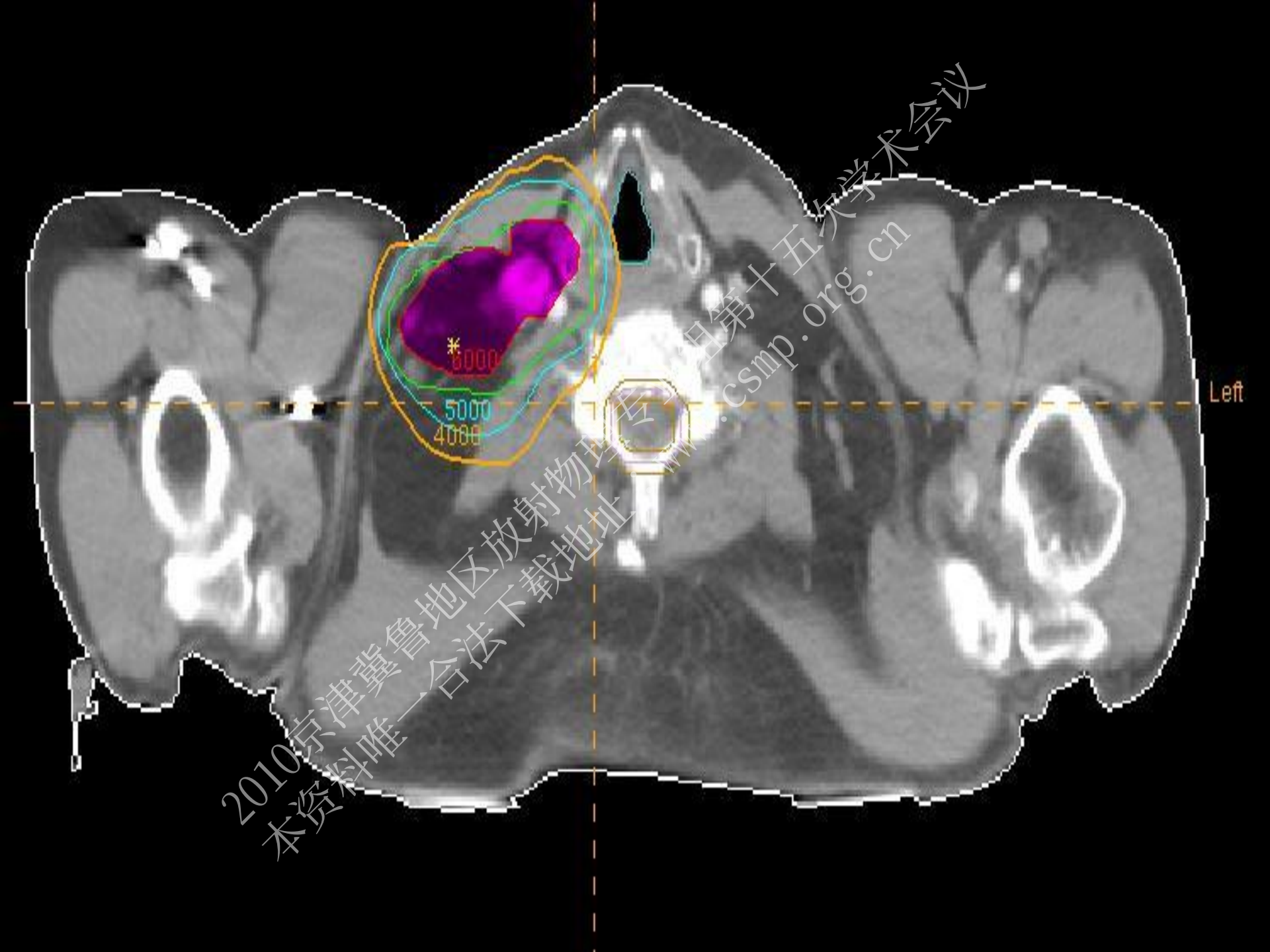
河北唐山人民（肿瘤）医院
放射治疗中心
刘建平

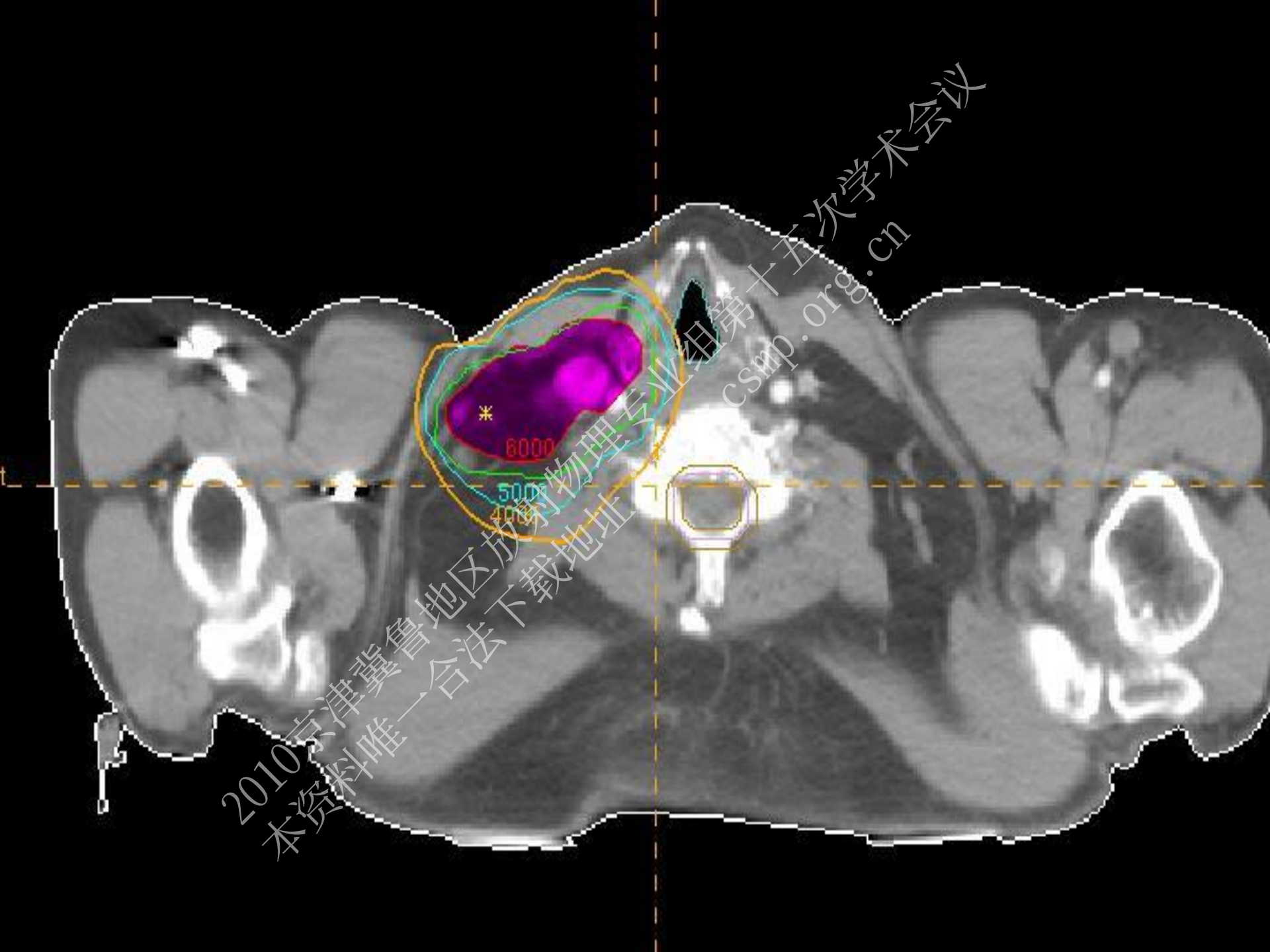
能实施的工作：

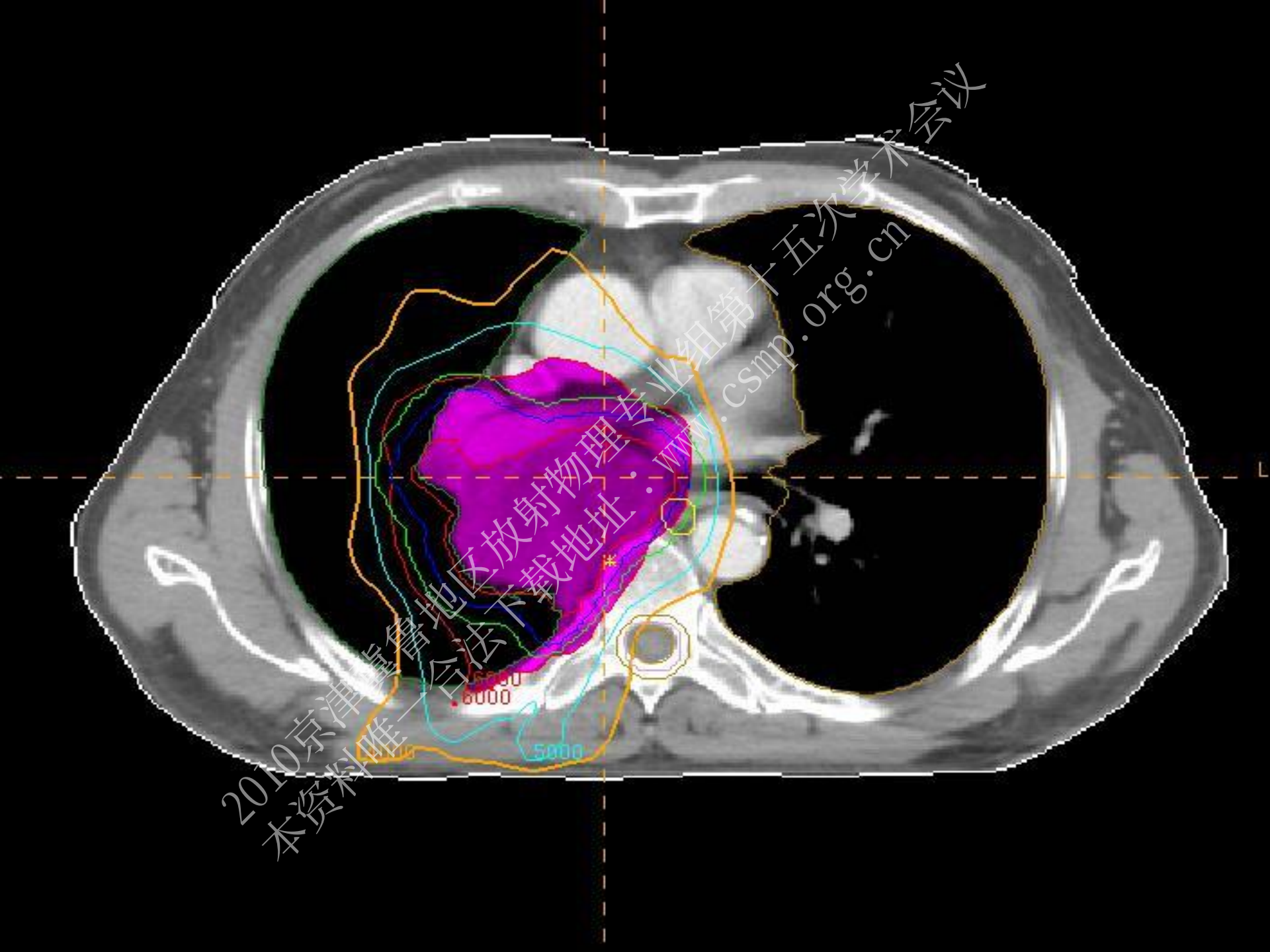
1、二维计划（在数字化仪下）

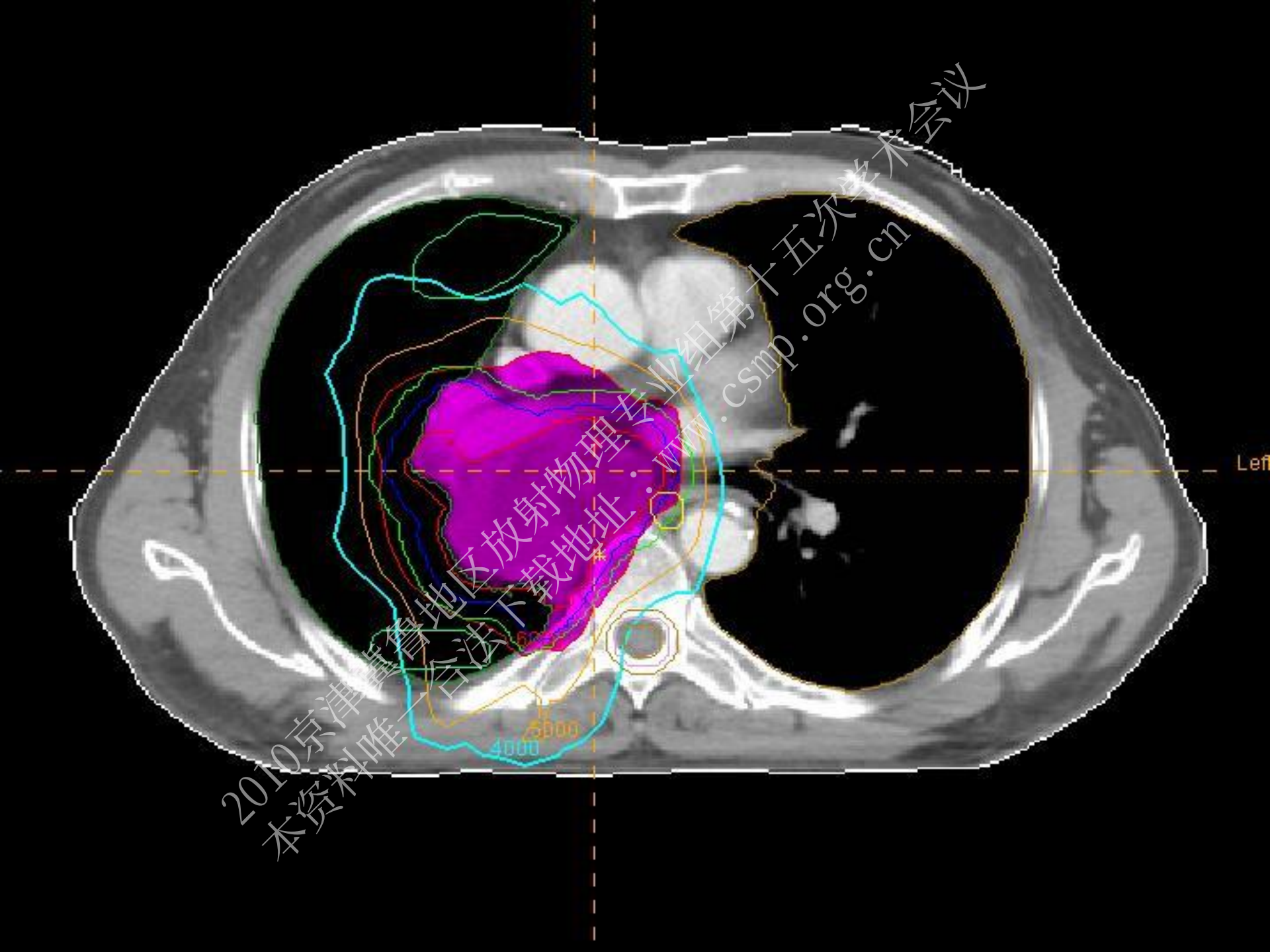
2、适形计划设计（可随意加野）

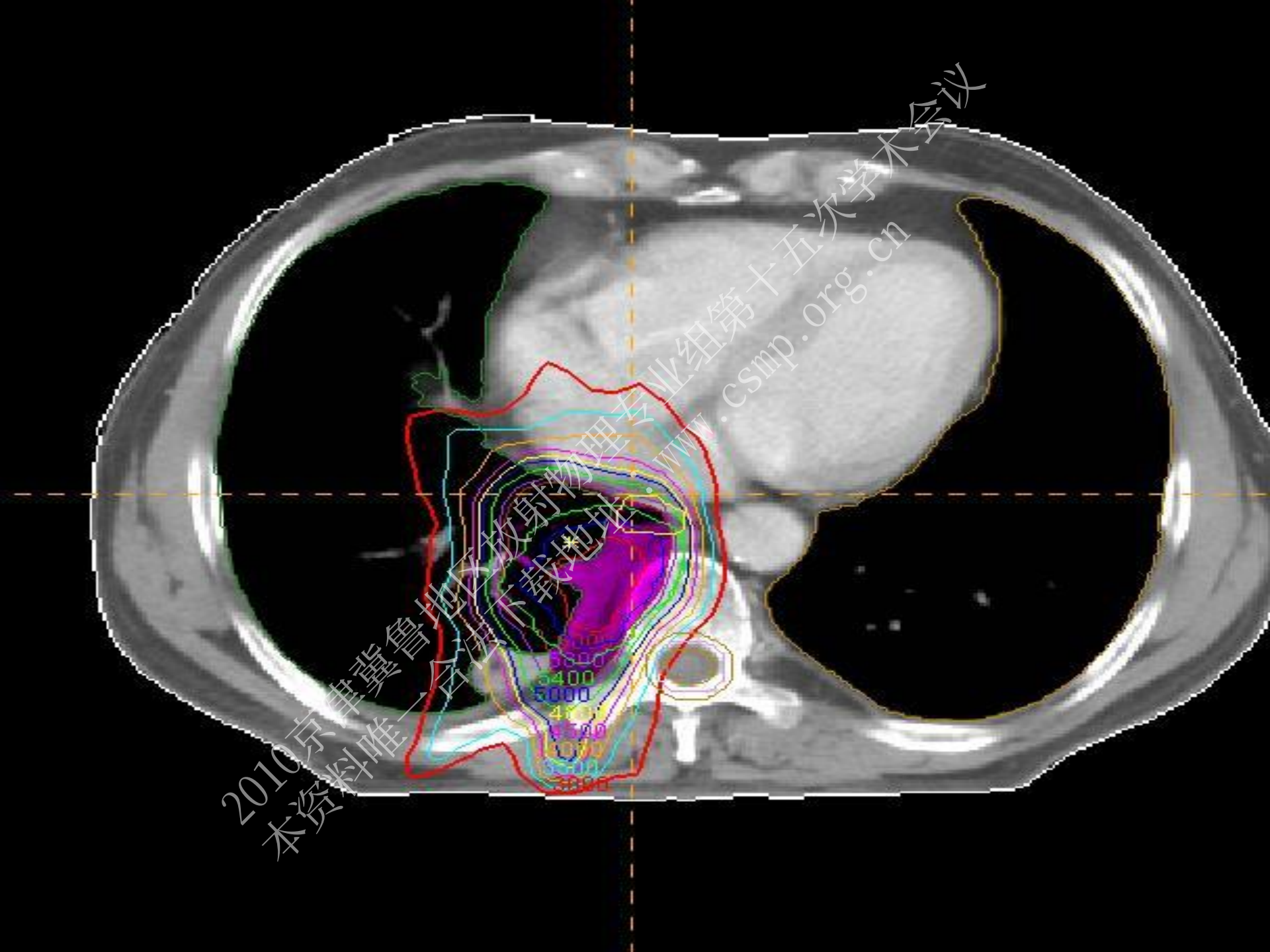
3、调强计划（逆向）





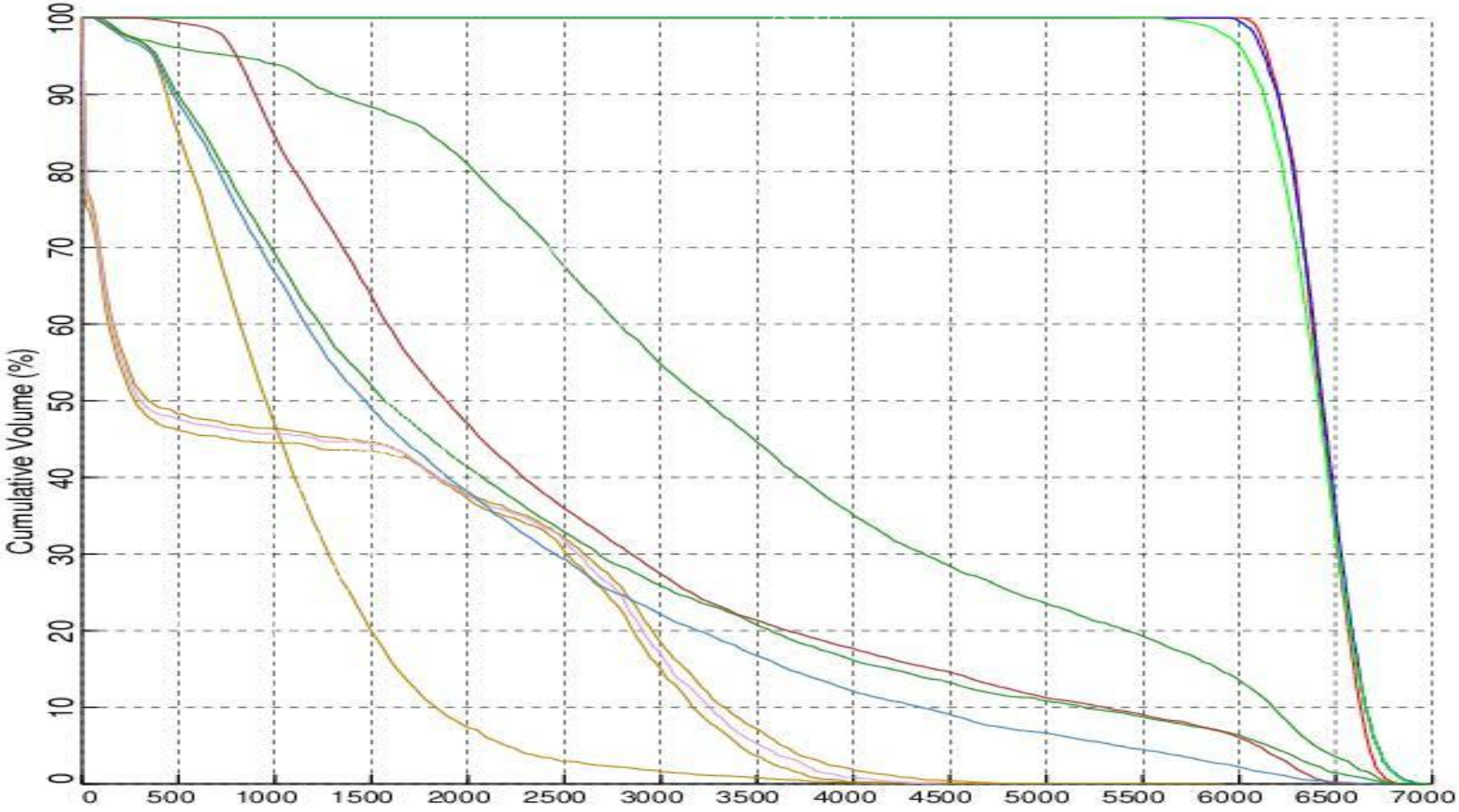






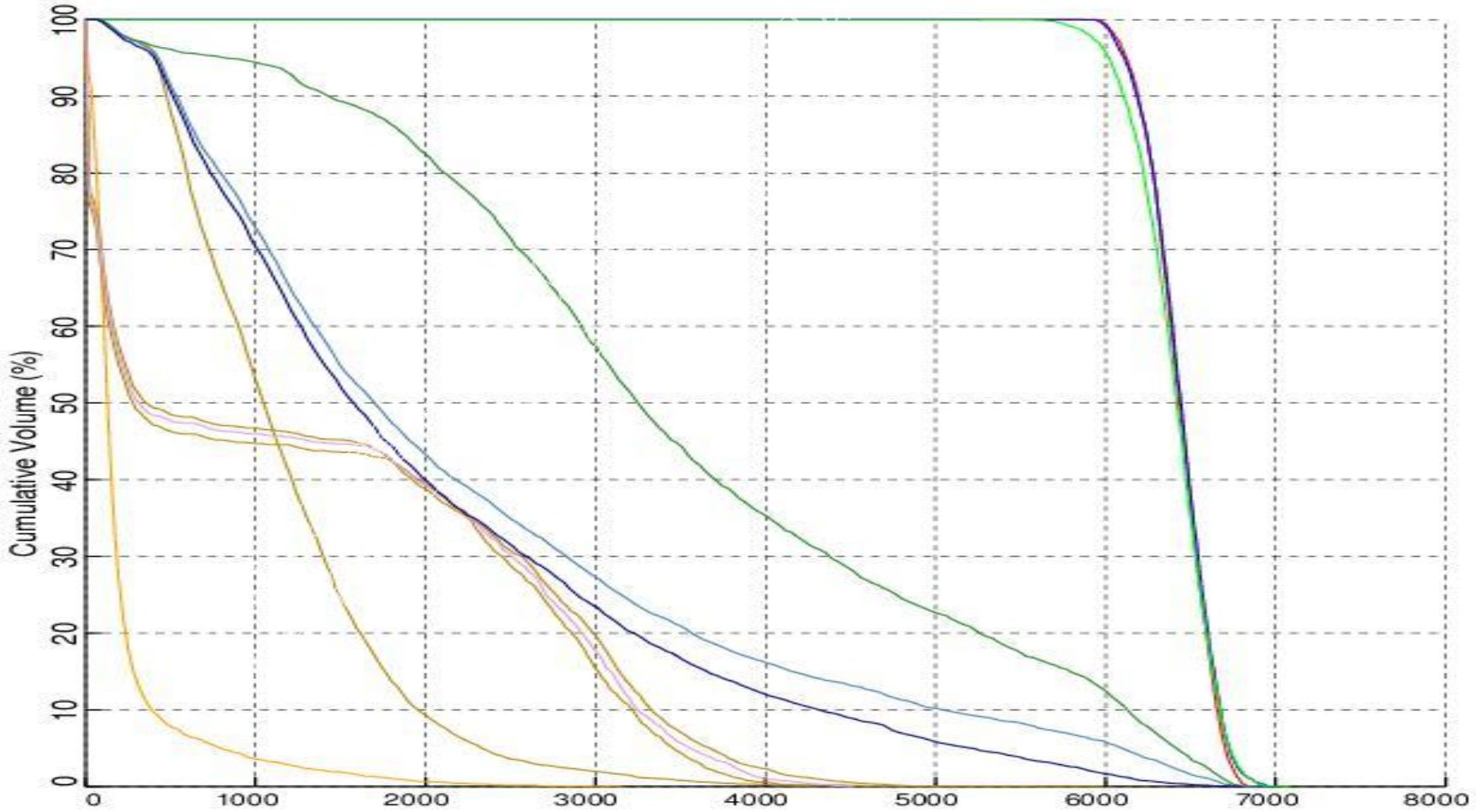
Patient ID	929242	Print Date	05-AUG-2010 13:04
Patient Name	si xi zhen	Image Dataset	SiXiZhen
Plan: 0	UNSAVED CHANGES	Plan Date	05-AUG-2010 13:04
Signature			

Key	Structure (2500 pts LIVE)	Plan	Min Dose(cGy)	Max Dose(cGy)	Mean Dose(cGy)	Total Vol (cc)
	GTV	Current	6013	6855	6421	176.7
	CTV	Current	5957	6963	6430	518.7
	PTV	Current	5384	6964	6395	756.6
	Lung L	Current	54	5879	1078	1899.9
	Lung R	Current	88	6884	3495	1633.0
	Lung all	Current	54	6914	2194	3566.7
	Heart	Current	277	6529	2445	619.4
	Cord	Current	0	4134	1267	91.5
	Cord PRV_5mm	Current	0	4935	1353	257.2
	Cord PRV_3mm	Current	0	4421	1315	173.3
	lung-PTV	Current	69	6731	1977	3566.5



Patient ID	929242	Print Date	05-AUG-2010 13:08
Patient Name	si xi zhen	Image Dataset	SiXiZhen
Plan: 2		Plan Date	05-AUG-2010 12:18
Signature			

Key	Structure (2500 pts LIVE)	Plan		Min Dose(cGy)	Max Dose(cGy)	Mean Dose(cGy)	Total Vol (cc)
	GTV	SiXiZhen	(02)	5955	6862	6429	176.7
	CTV	SiXiZhen	(02)	5864	6978	6437	518.7
	PTV	SiXiZhen	(02)	5266	7072	6403	756.6
	Lung L	SiXiZhen	(02)	63	5945	1158	1899.9
	Lung R	SiXiZhen	(02)	87	6828	3524	1633.0
	Lung all	SiXiZhen	(02)	64	6848	2251	3566.7
	Liver	SiXiZhen	(02)	0	3131	214	1552.7
	Cord	SiXiZhen	(02)	0	4235	1279	91.5
	Cord PRV_5mm	SiXiZhen	(02)	0	5011	1367	257.2
	Cord PRV_3mm	SiXiZhen	(02)	0	4491	1328	173.3
	lung-PTV	SiXiZhen	(02)	80	6739	2034	3566.5



调强计划逆向

7个射野：170、200、230、270、300、330、0

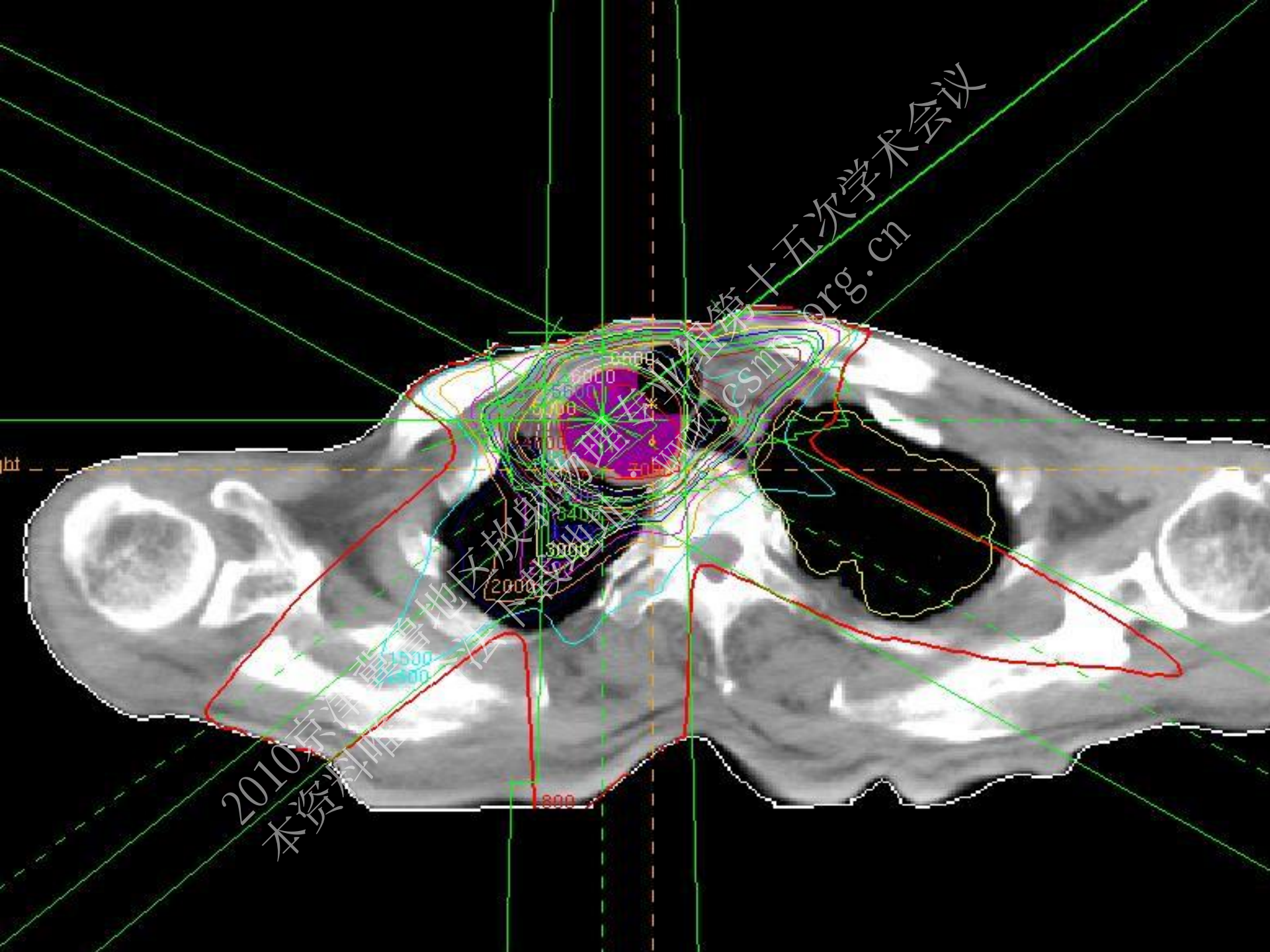
计划1共54个射野

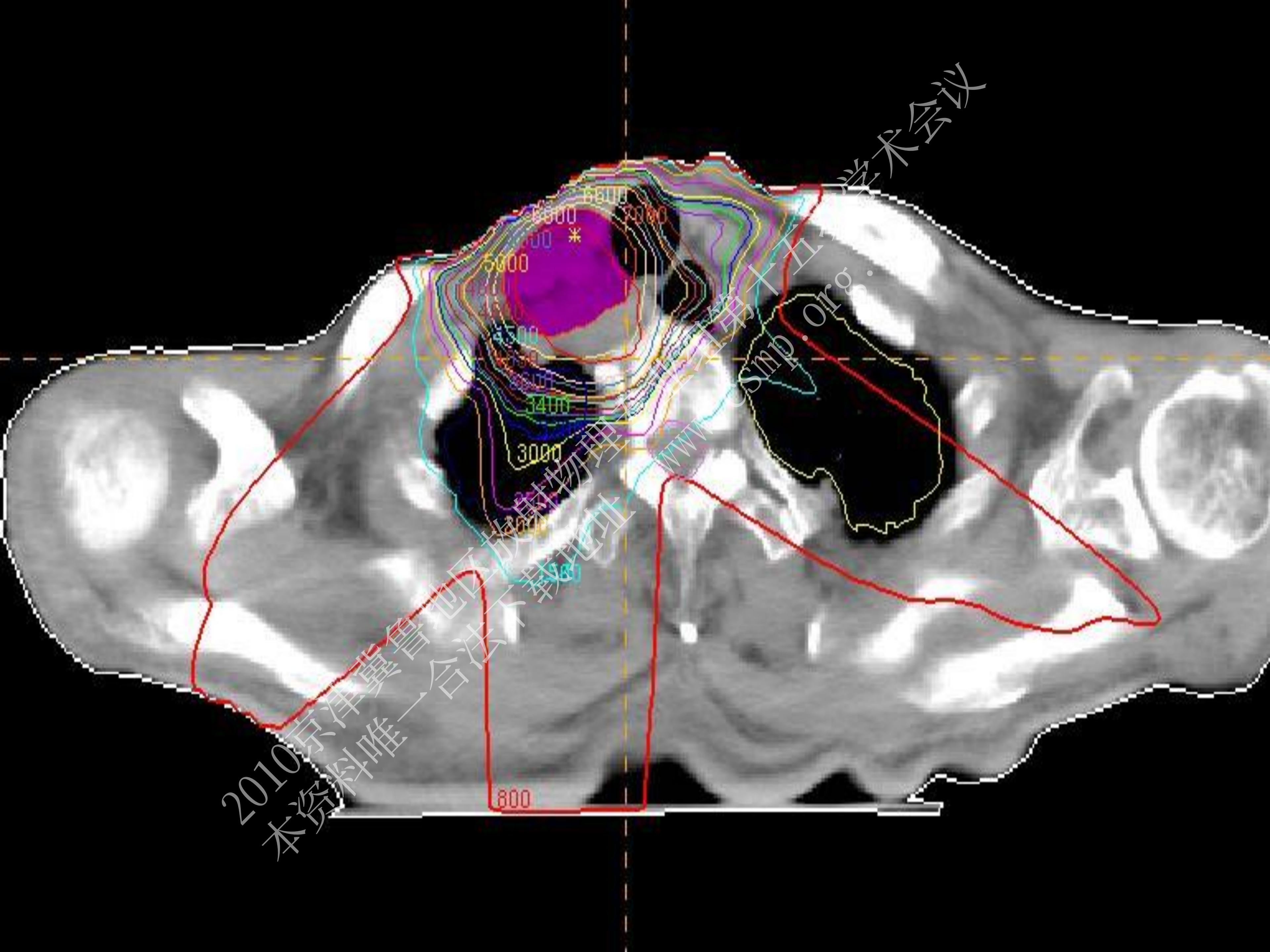
总机器跳数：584.4

计划2共53个射野

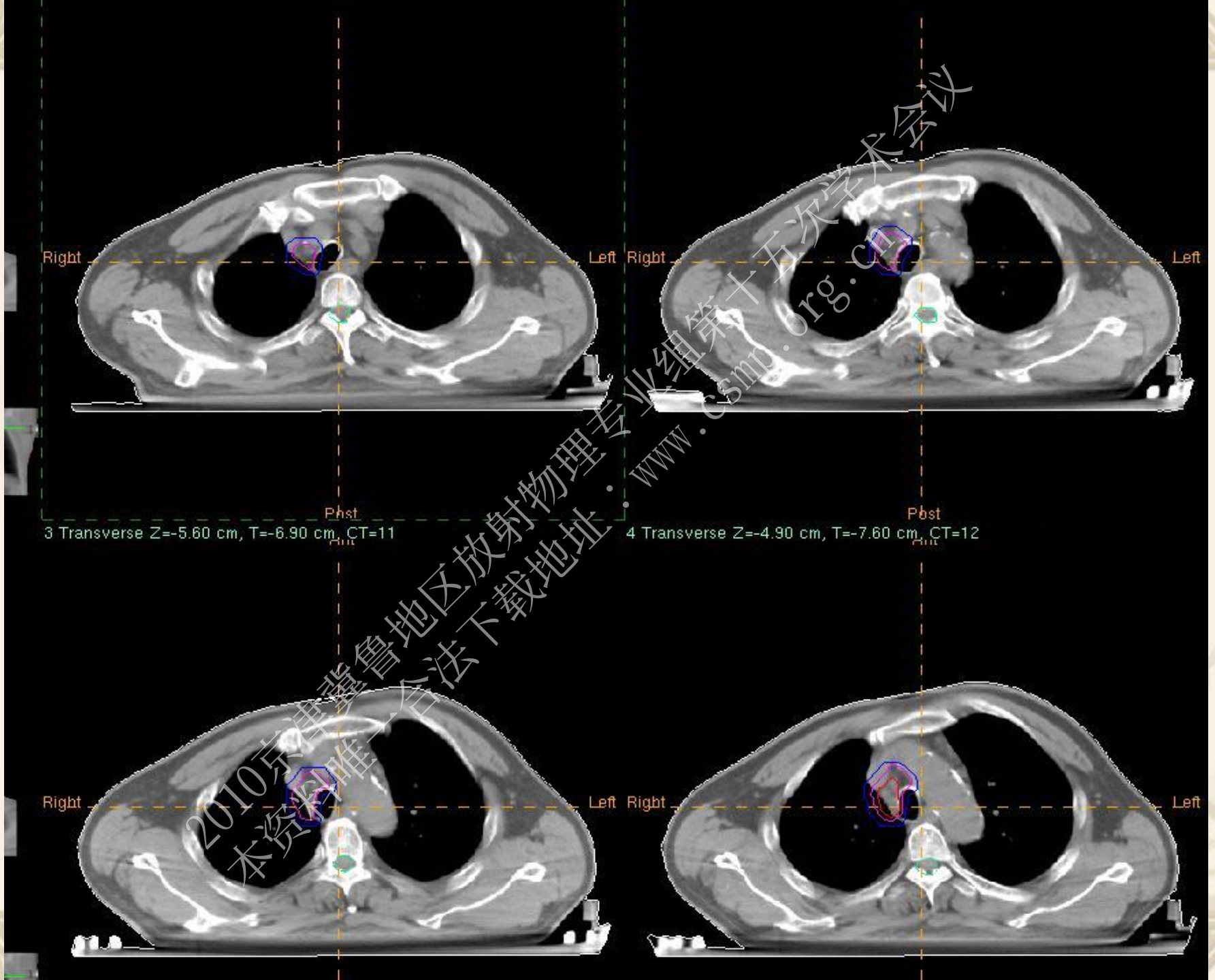
总机器跳数589.5

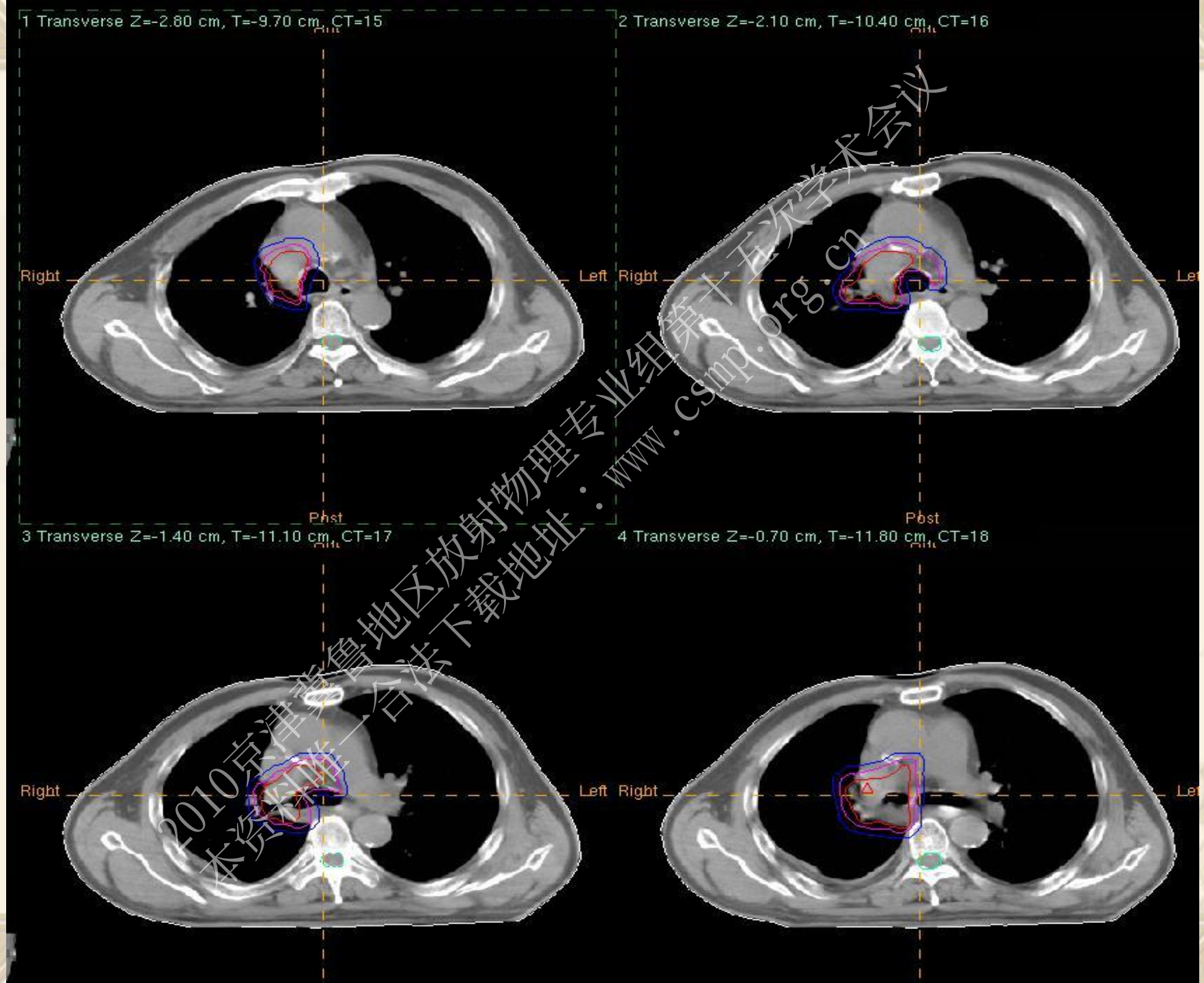
两个计划中没有太小的射野
均大于3X3cm,
但有窄条形野为1.5X9cm
最小跳数大于5MU

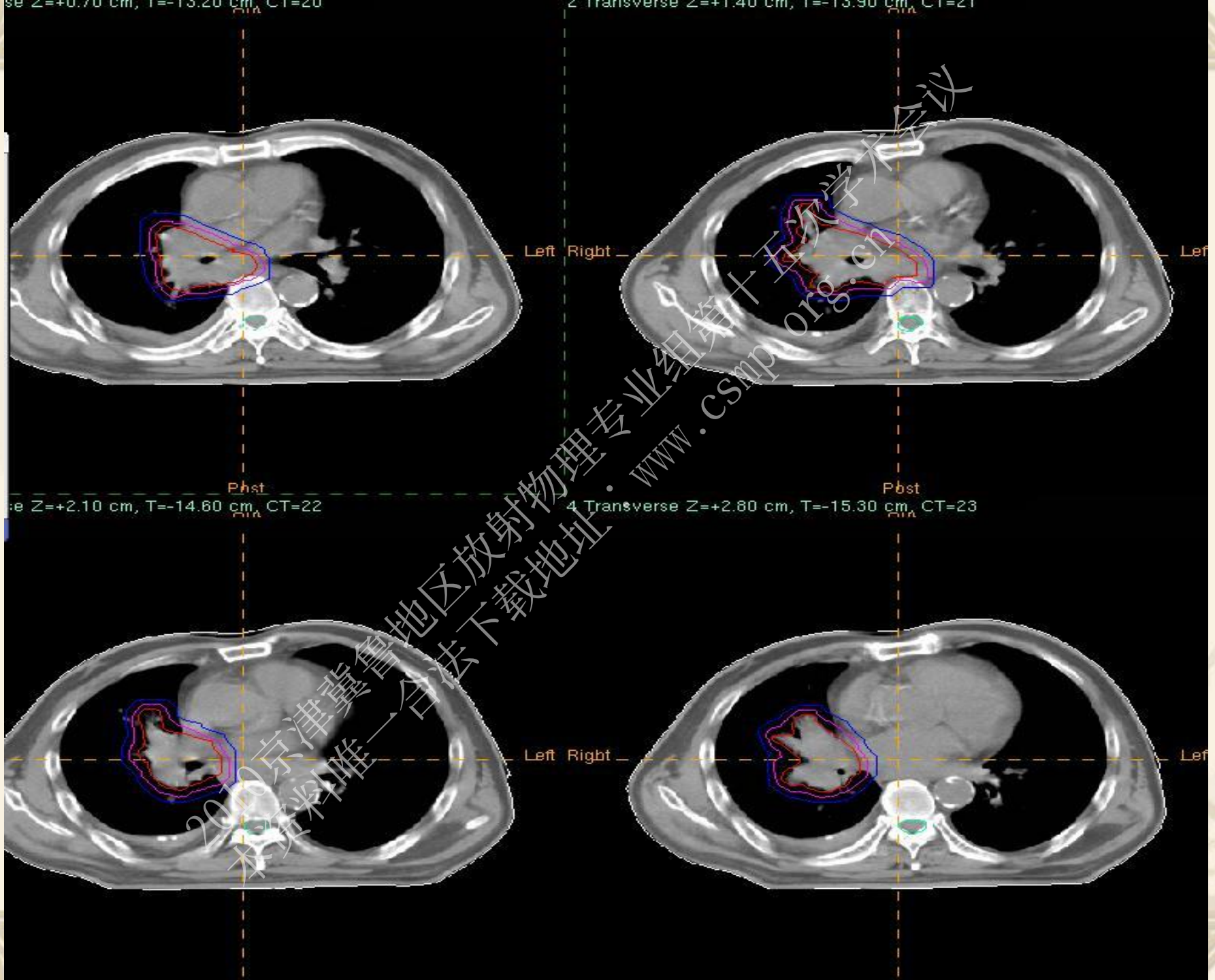


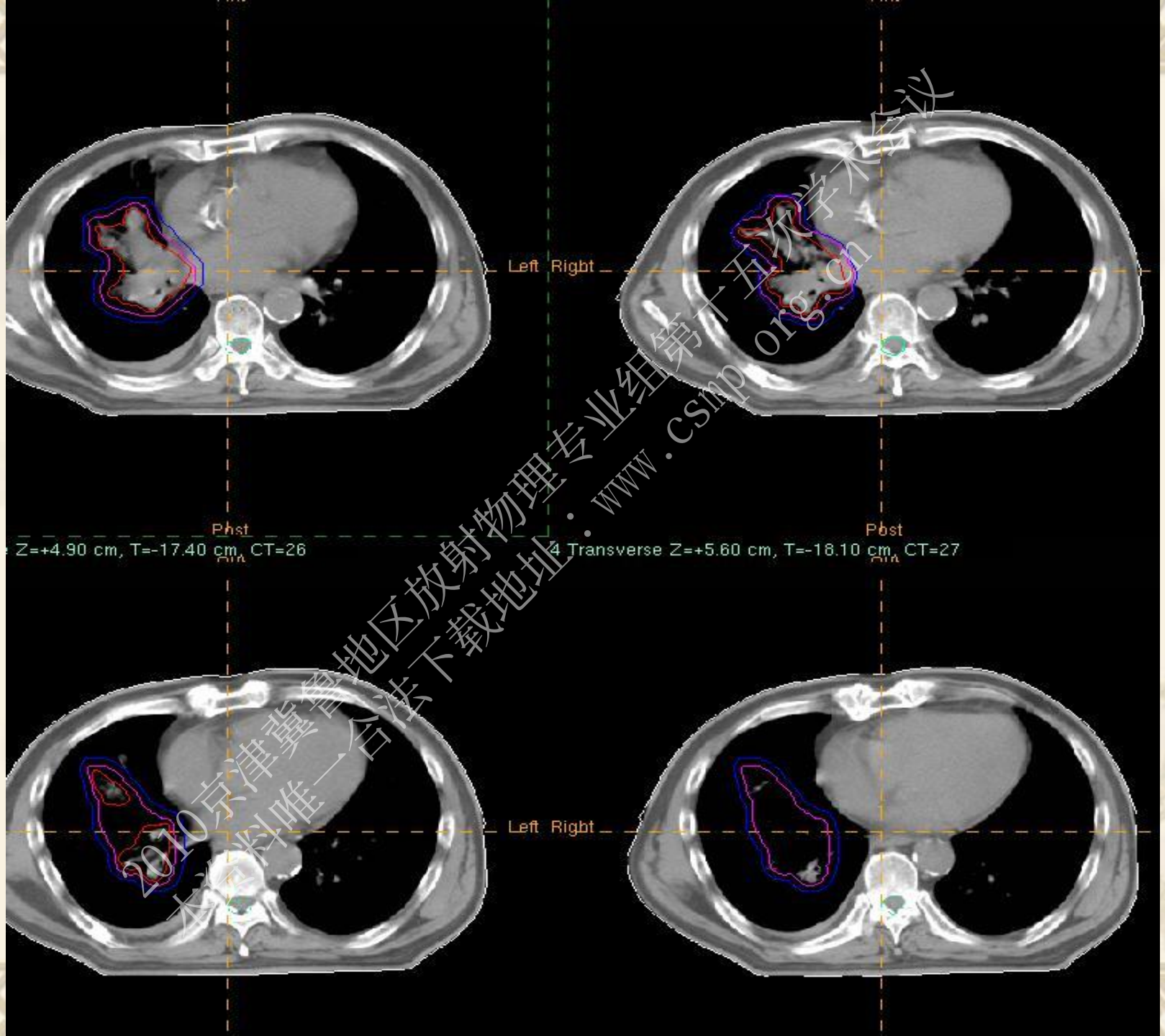

6000
5000
3400
3000
800

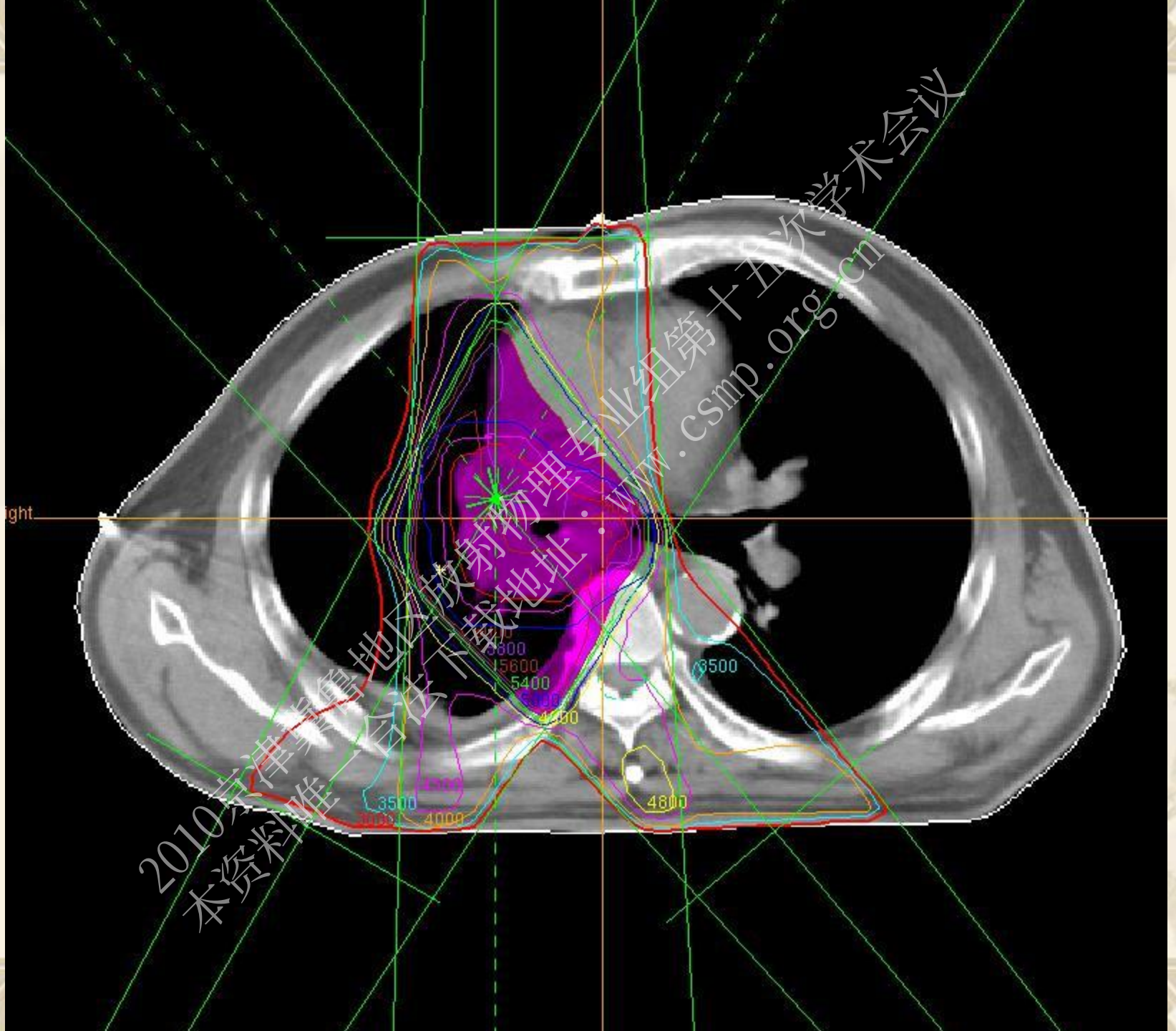
共5野其中50度有一野中野
50、300、0、270
270度床角40度

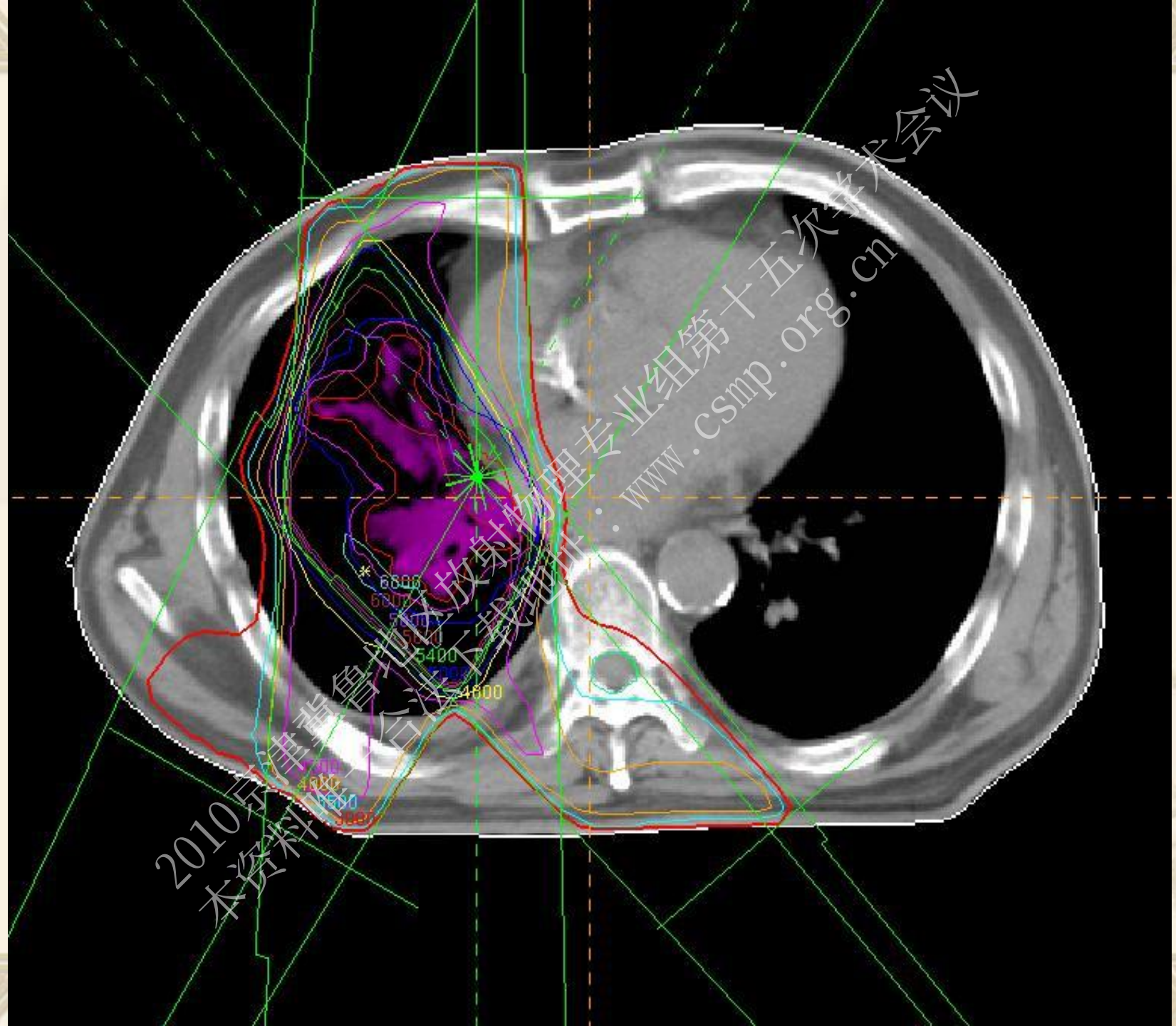






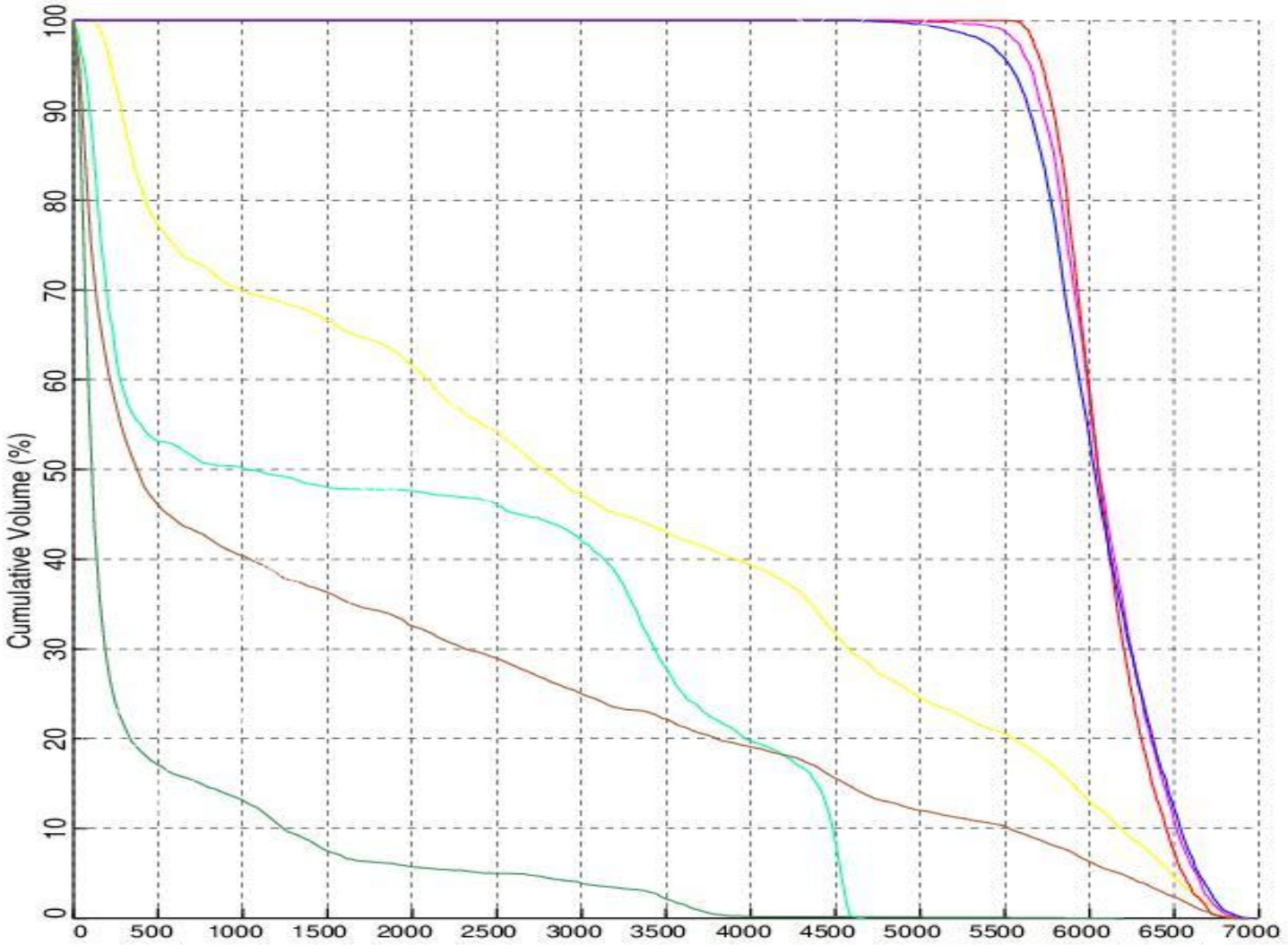






Patient ID	243317	Print Date	06-AUG-2010 08:32
Patient Name	LIU XUE ZHENG	Image Dataset	CRT-LiuXueZheng
Plan: 1		Plan Date	26-JUL-2010 09:09
Signature			

Key	Structure (2500 pts LIVE)	Plan		Min Dose(cGy)	Max Dose(cGy)	Mean Dose(cGy)	Total Vol (cc)
	lung-l	CRT-LiuXueZheng	(01)	0	6157	412	1773.9
	lung-r	CRT-LiuXueZheng	(01)	103	6956	3025	1654.8
	CTV	CRT-LiuXueZheng	(01)	4847	6890	6090	305.7
	GTV	CRT-LiuXueZheng	(01)	5522	6865	6086	174.6
	PTV	CRT-LiuXueZheng	(01)	4529	6973	6054	435.3
	Cord	CRT-LiuXueZheng	(01)	15	4641	1929	44.1
	lung-all	CRT-LiuXueZheng	(01)	0	6902	1678	3473.7



大家公认调强逆向计划不好用
特别是鼻咽部调强计划
我们总结一定经验如下：
靶区内画圈
设置一些剂量限制点
反复多轮优化
目标函数中靶区权重要远远大于危机器官权重否则靶区剂量上不去高剂量太大

谢谢大家！

请您多多指点

多多帮助