

Accelerated Hyperfractionated Radiotherapy for Uterine Cervix Cancer (Cervix-II)

**FNCA 2003 Workshop on Radiation Oncology
Suzhou(Soochow)/Shanghai, China, 2003**

Characteristics of Patients

Registered Cases n=103

	CHN	IDN	JPN	KOR	
Cases	7	7	18	33	
Followed (%)	7 (100%)	5 (71%)	18 (100%)	33 (100%)	
	PHL	THA	VNM	MYS	Total
Cases	16	17	5	0	103
Followed (%)	8 (50%)	11 (65%)	5 (100%)	0 (84.5%)	87

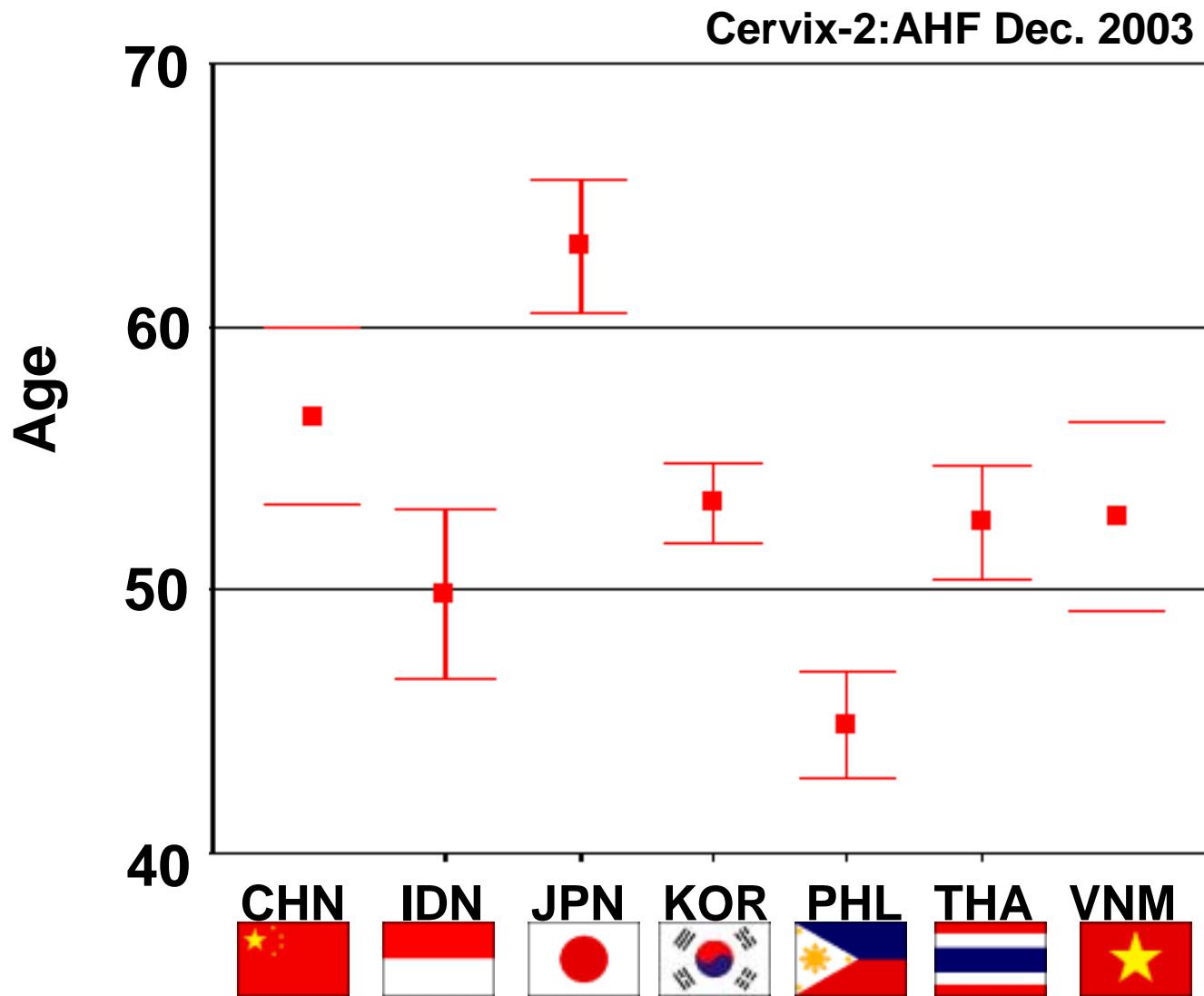
Characteristics of Registered Patients (n=103)

	HDR (n=48)	LDR/MDR (n=55)
Age (range)	54.1 (31-80)	53.0 (35-71)
FIGO Stage		
IIB	25	31
IIIB	23	24
Tumor Size		
<4cm	3	7
4-6cm	28	33
≥6cm	17	15
Followed	38	49
Not Followed	10	6

Tumor Size and FIGO Stage

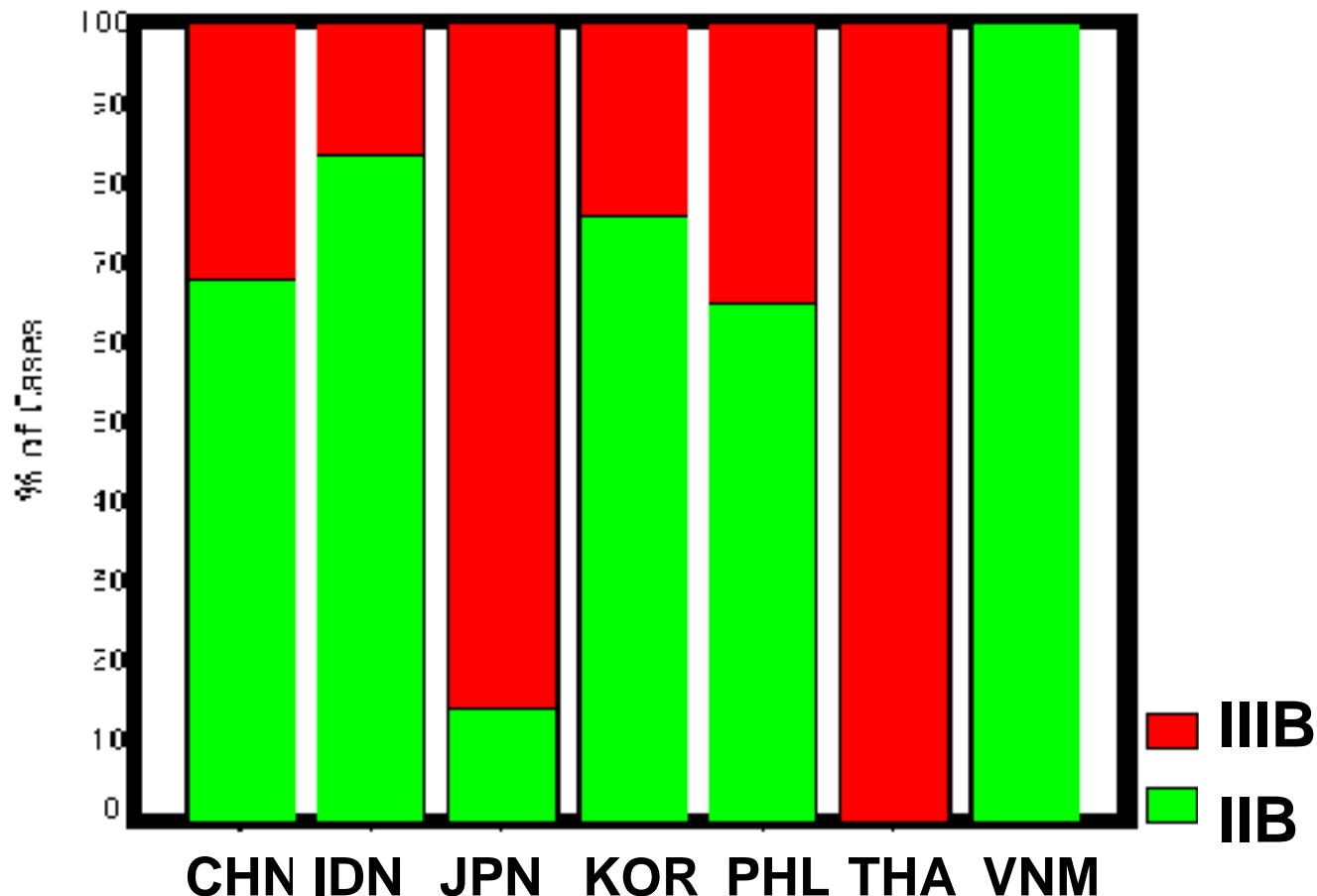
	Small <4 cm	Medium 4-6 cm	Large ≥ 6cm
FIGO IIB	3	39	14
FIGO IIIB	7	22	18

Patient Age



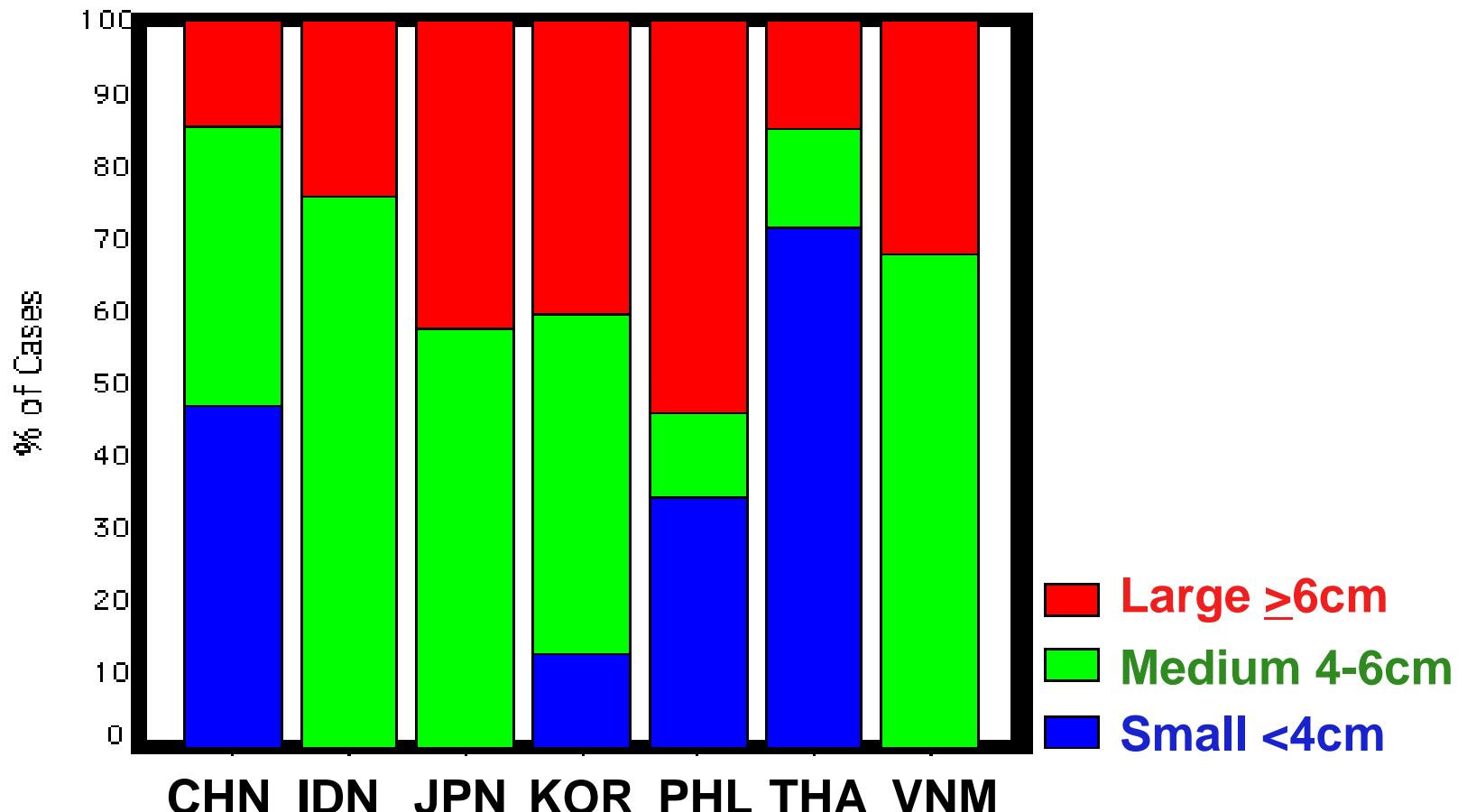
Distribution of FIGO Stage by Countries

Cervix-2:AHF Dec. 2003



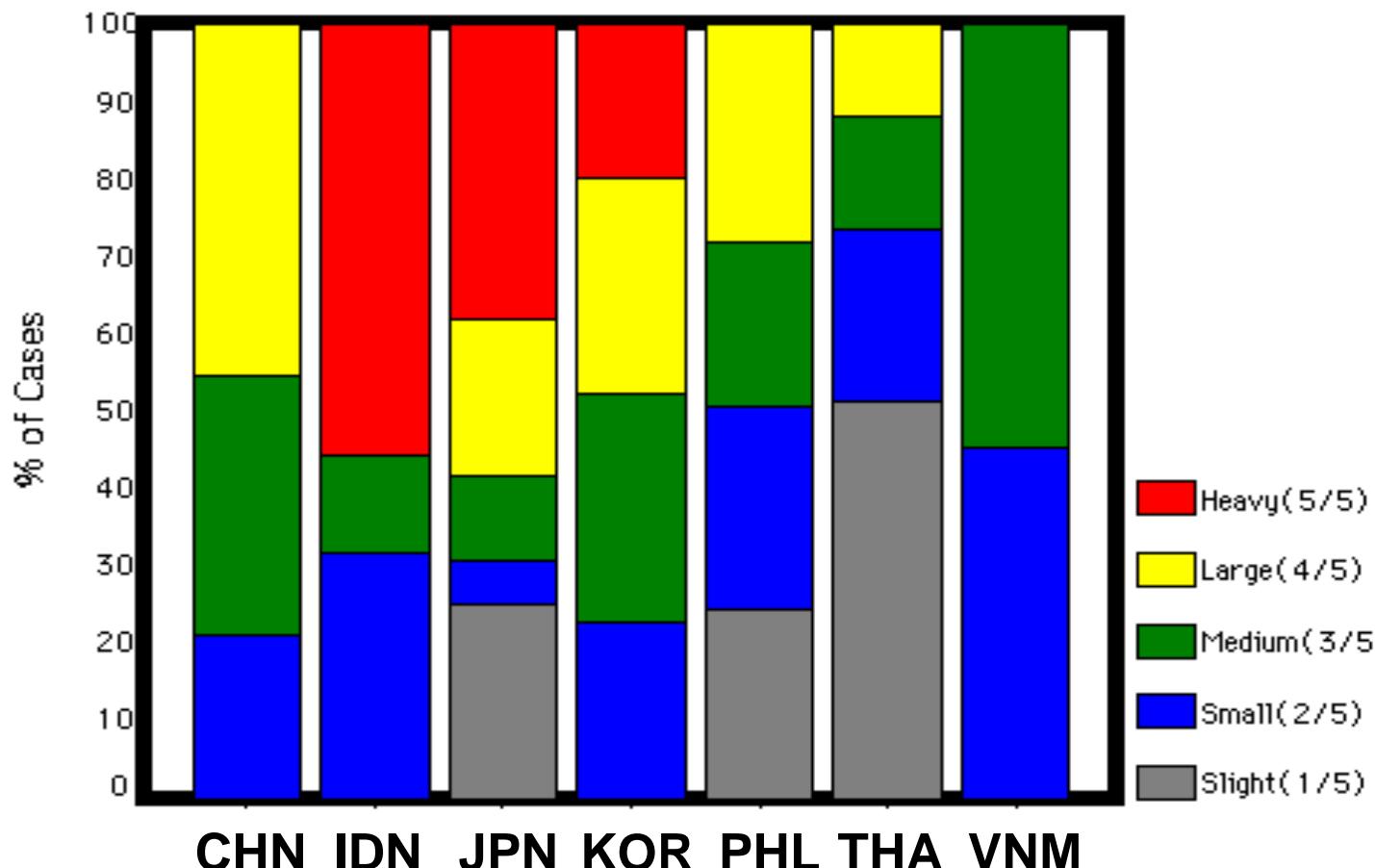
Distribution of Tumor Size by Countries

Cervix-2:AHF Dec. 2003



Distribution of Parametrium Volume by Countries

Cervix-2:AHF Dec. 2003

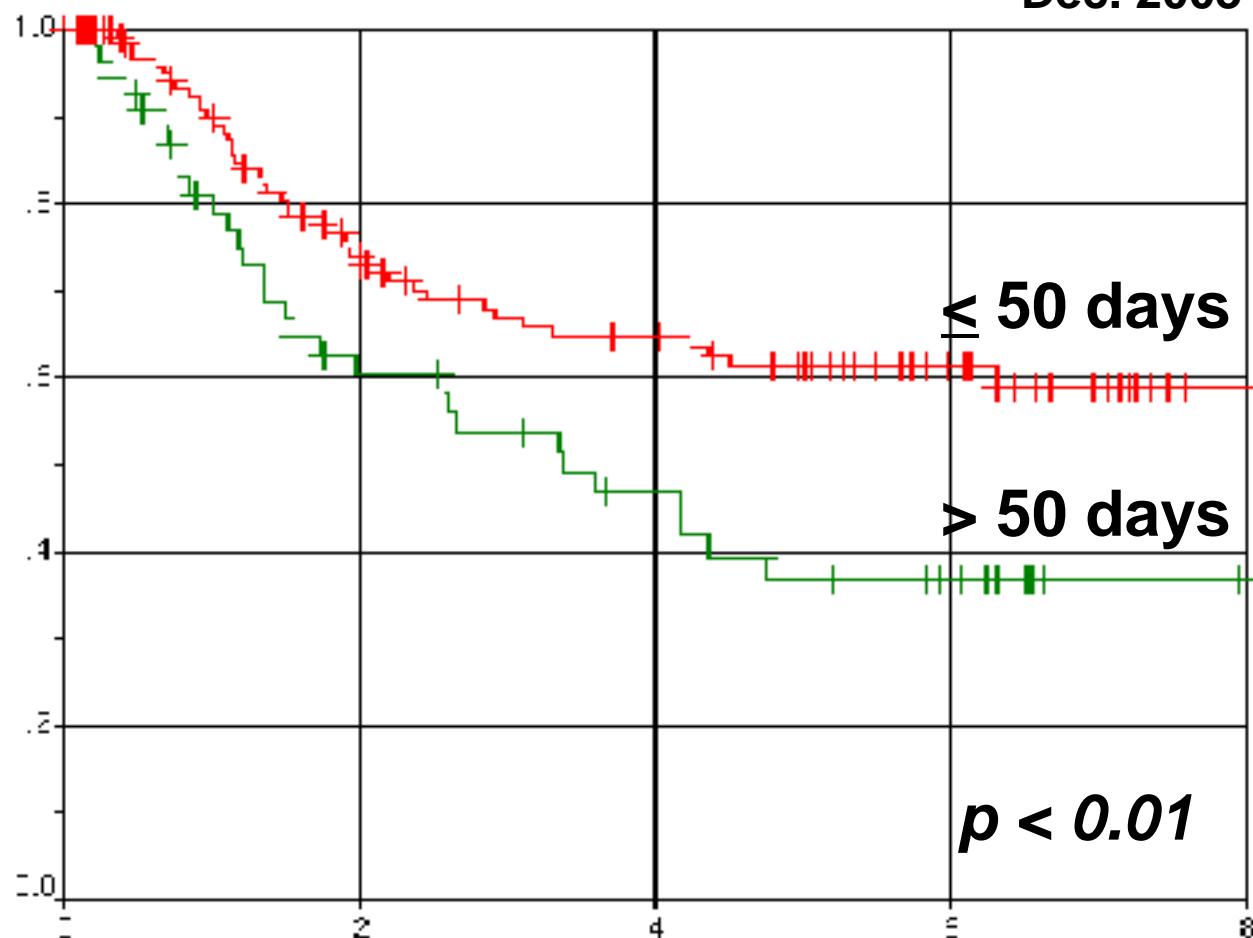


Characteristics of Radiotherapy

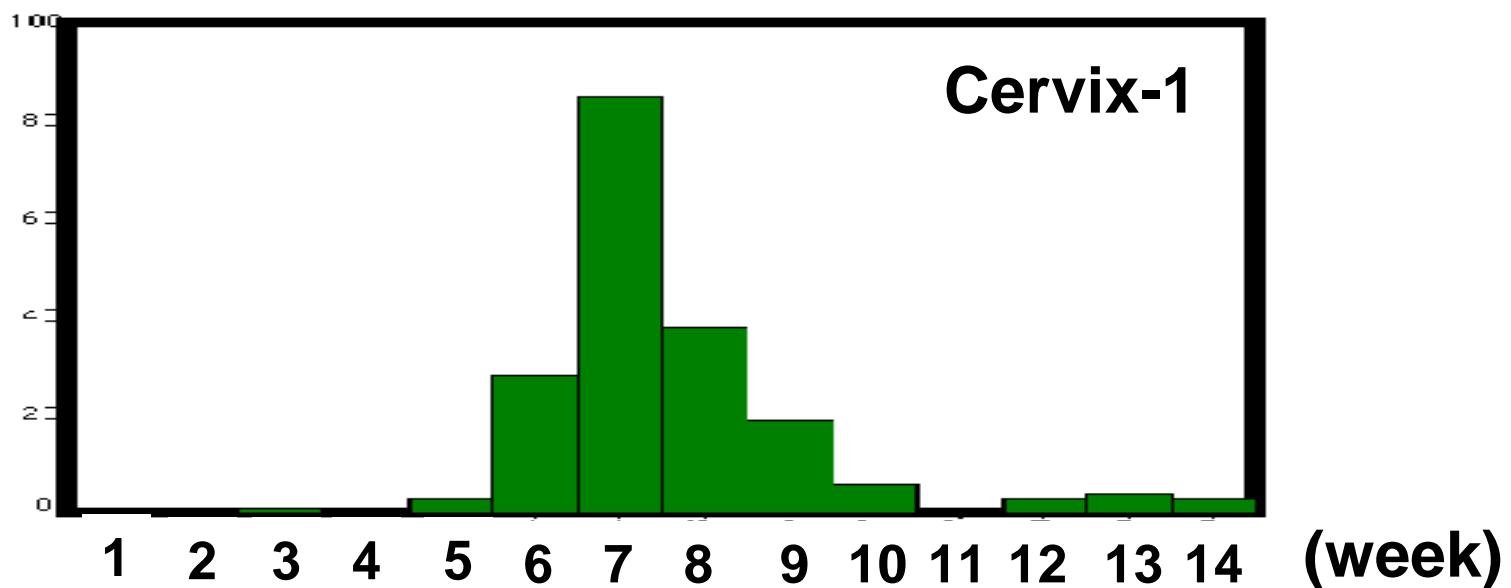
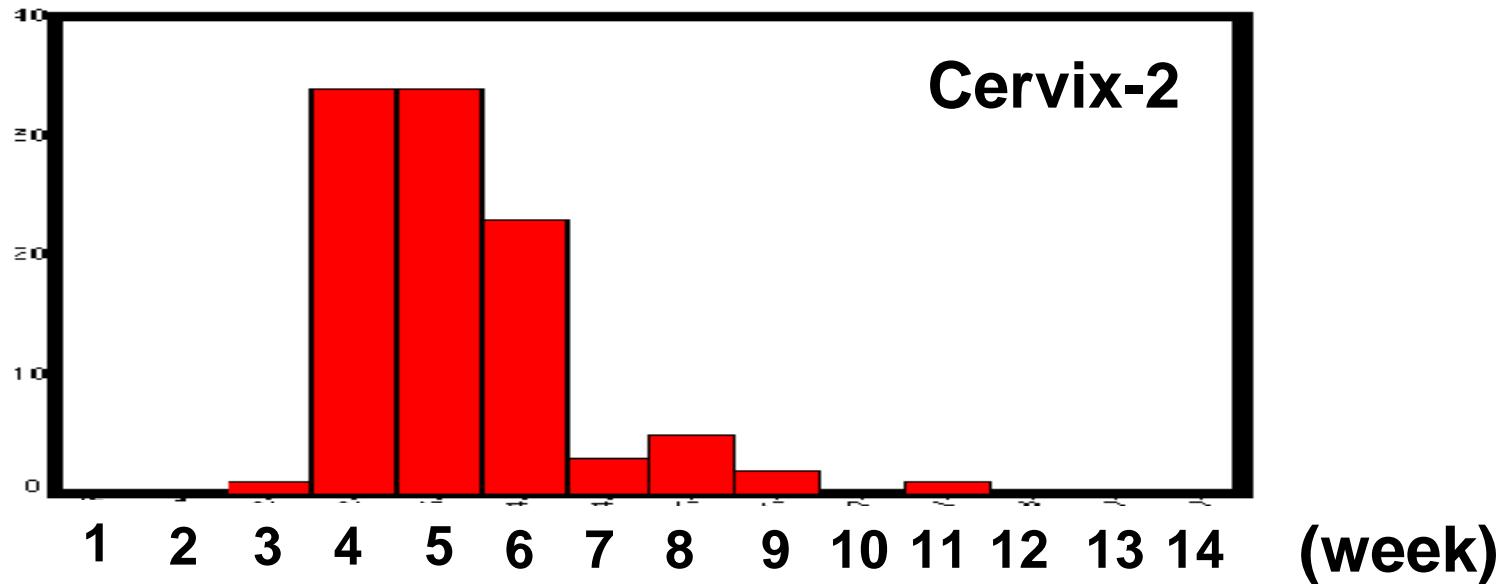
Overall Survival by OTT

Cervix-1

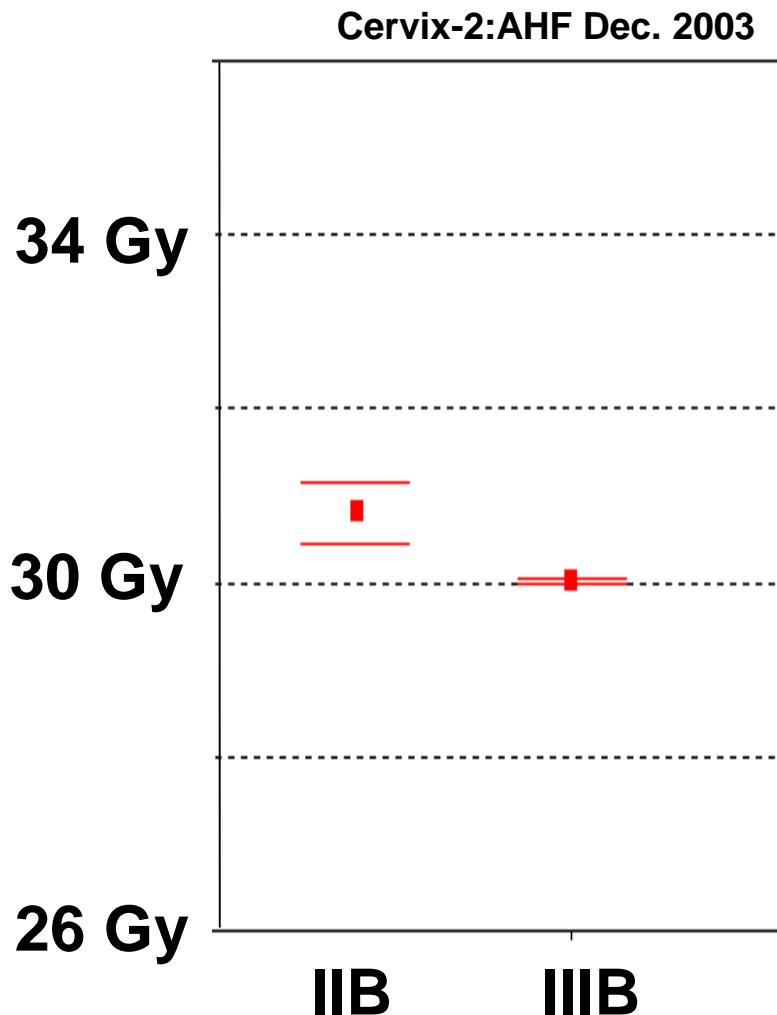
Dec. 2003



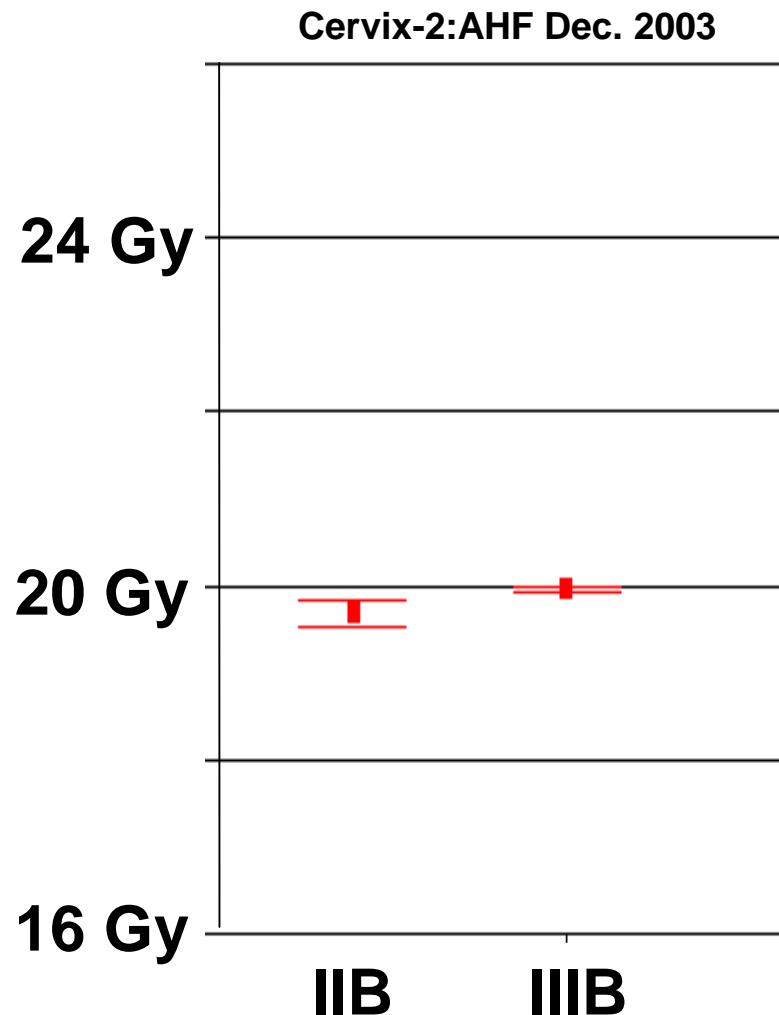
Histograms of Overall Treatment Time



Whole Pelvic Dose

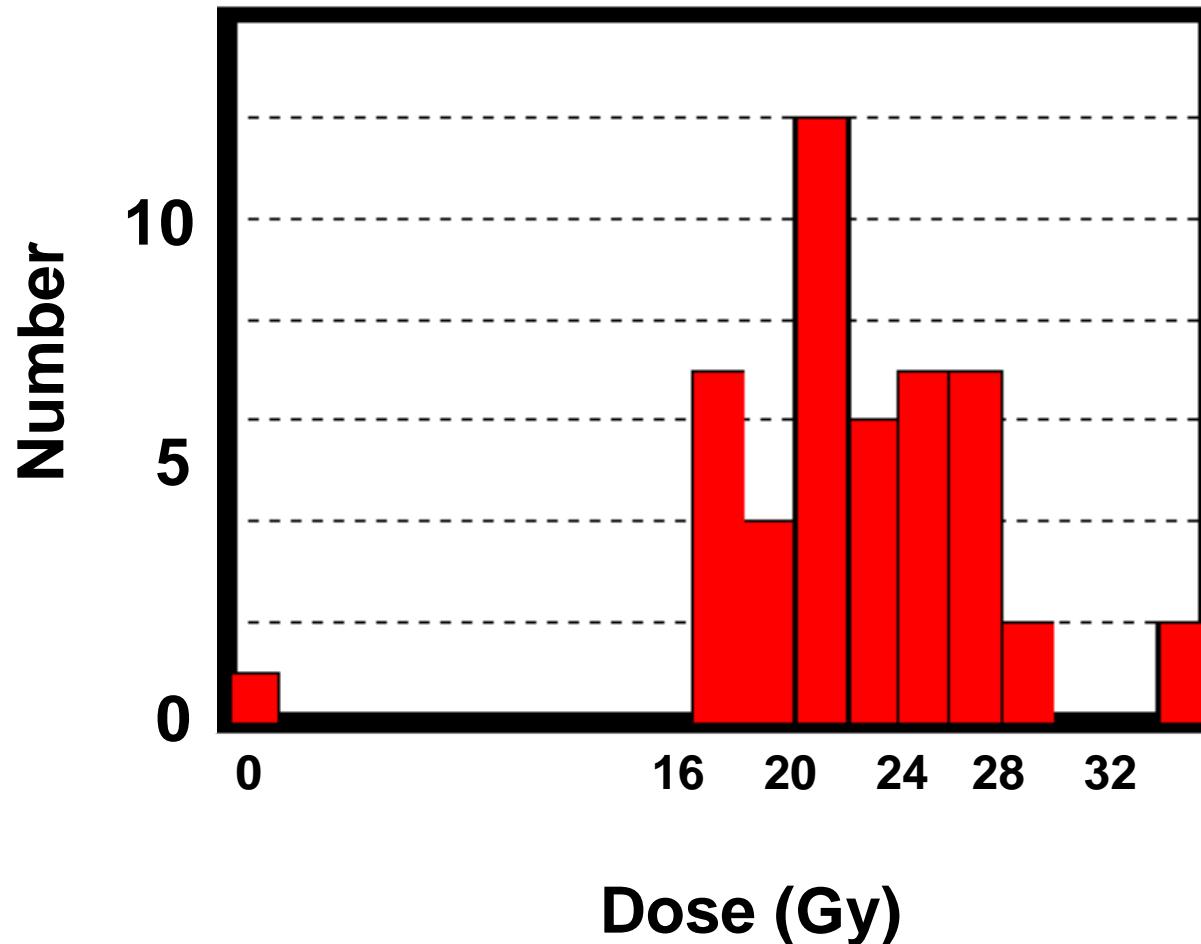


Center Shielding Dose



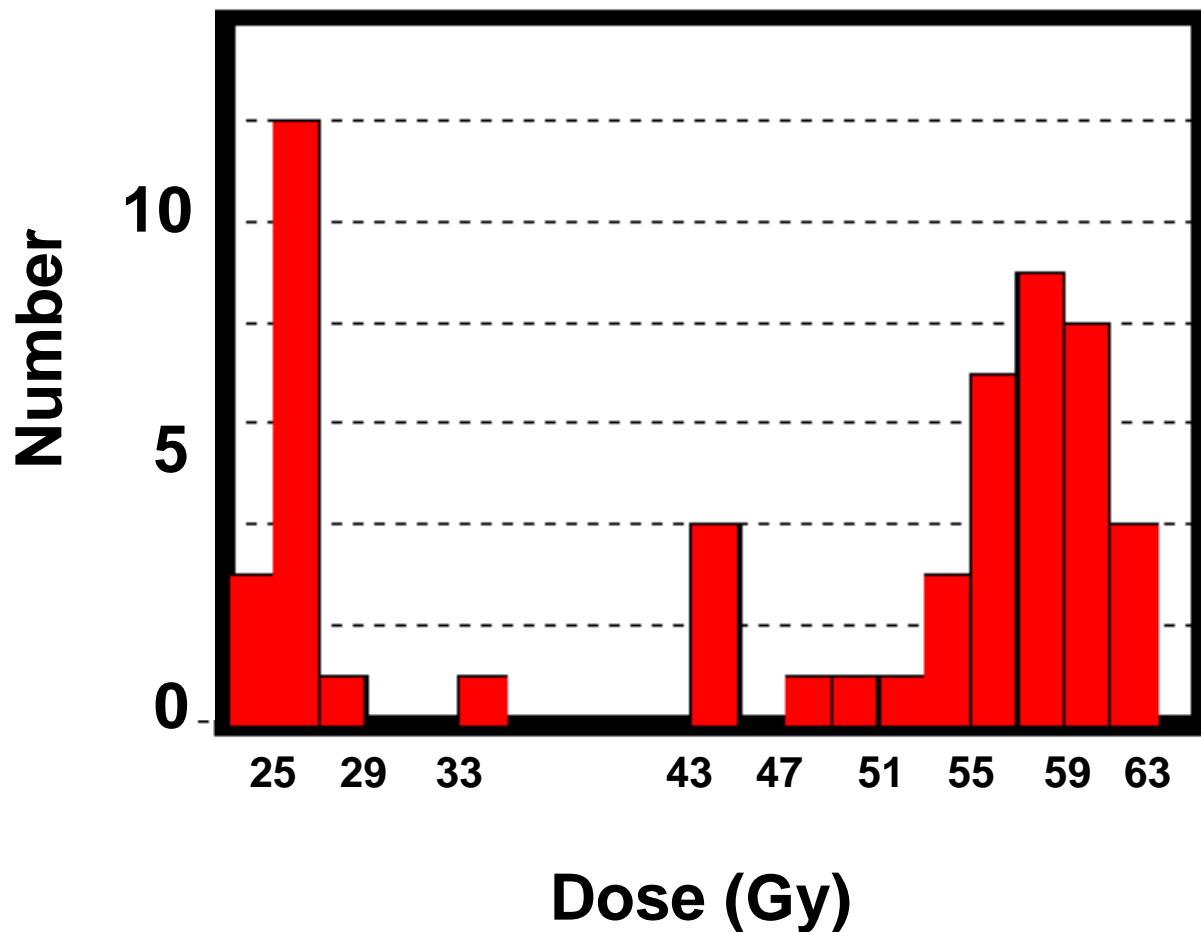
Histogram of Point-A Dose for HDR-ICBT

Cervix-2:AHF Dec. 2003



Histogram of Point-A Dose for LDR/MDR-ICBT

Cervix-2:AHF Dec. 2003



Morbidity of Cervix-II

Acute Morbidity for 103 Patients

Site	unknown	RTOG Grade					
		0	1	2	3	4	
Mucosa	3	65	22	11	1	1	2%
Rectum	2	57	28	14	2	0	2%
Bladder	1	74	22	6	0	0	0%
Intestine	2	68	17	15	1	0	1%

Late Morbidity for 103 Patients

Site	unknown	RTOG Grade					
		0	1	2	3	4	
Mucosa	7	43	40	9	3	1	
Rectum	7	58	31	7	0	0	4%
Bladder	7	80	12	2	1	1	0%
Intestine	7	82	13	0	0	1	2% 1% 1%

Results of Cervix-II

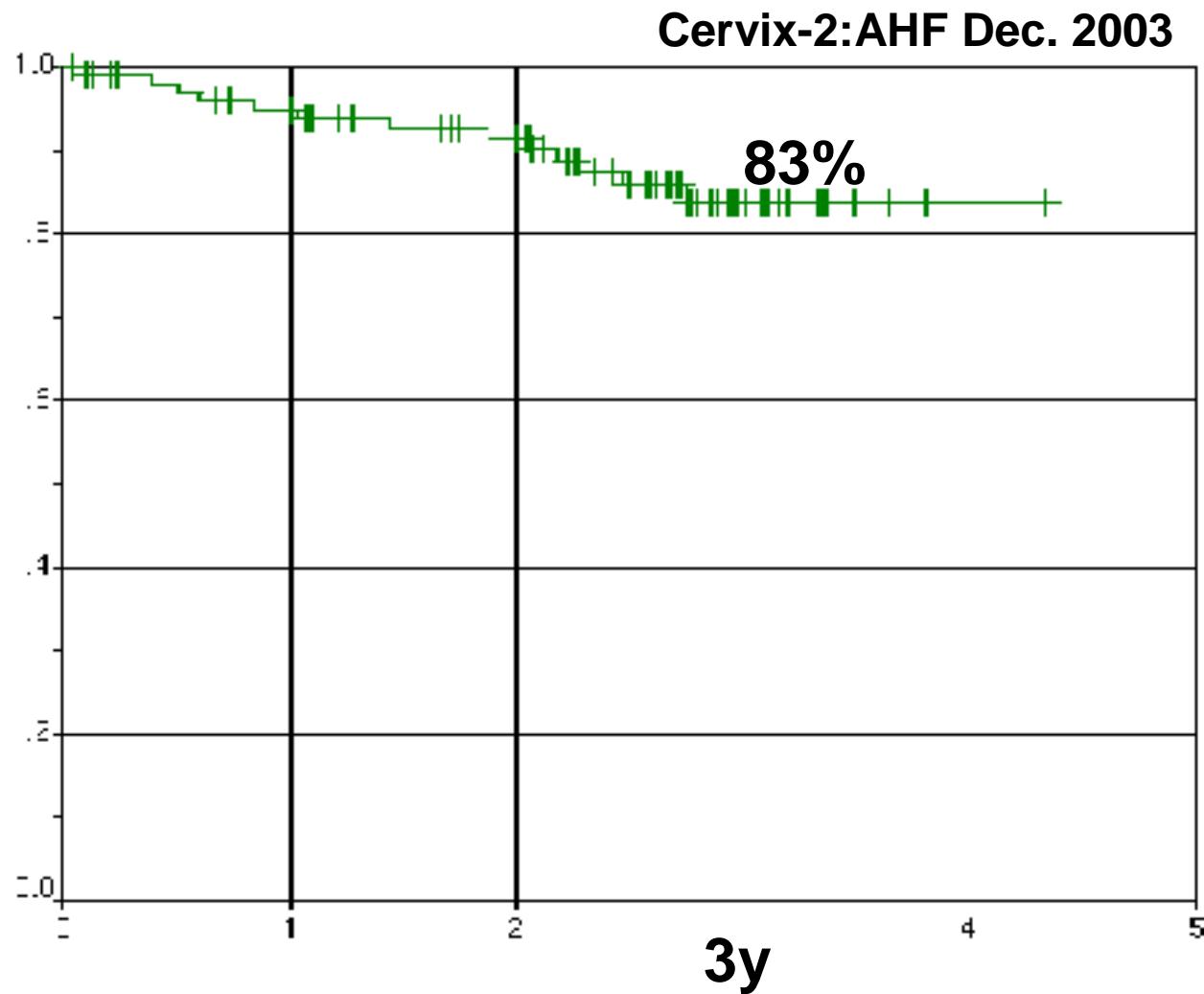
Overall Survival

{ for all 103 patients
by FIGO stage
by tumor size
by parametrium involvement

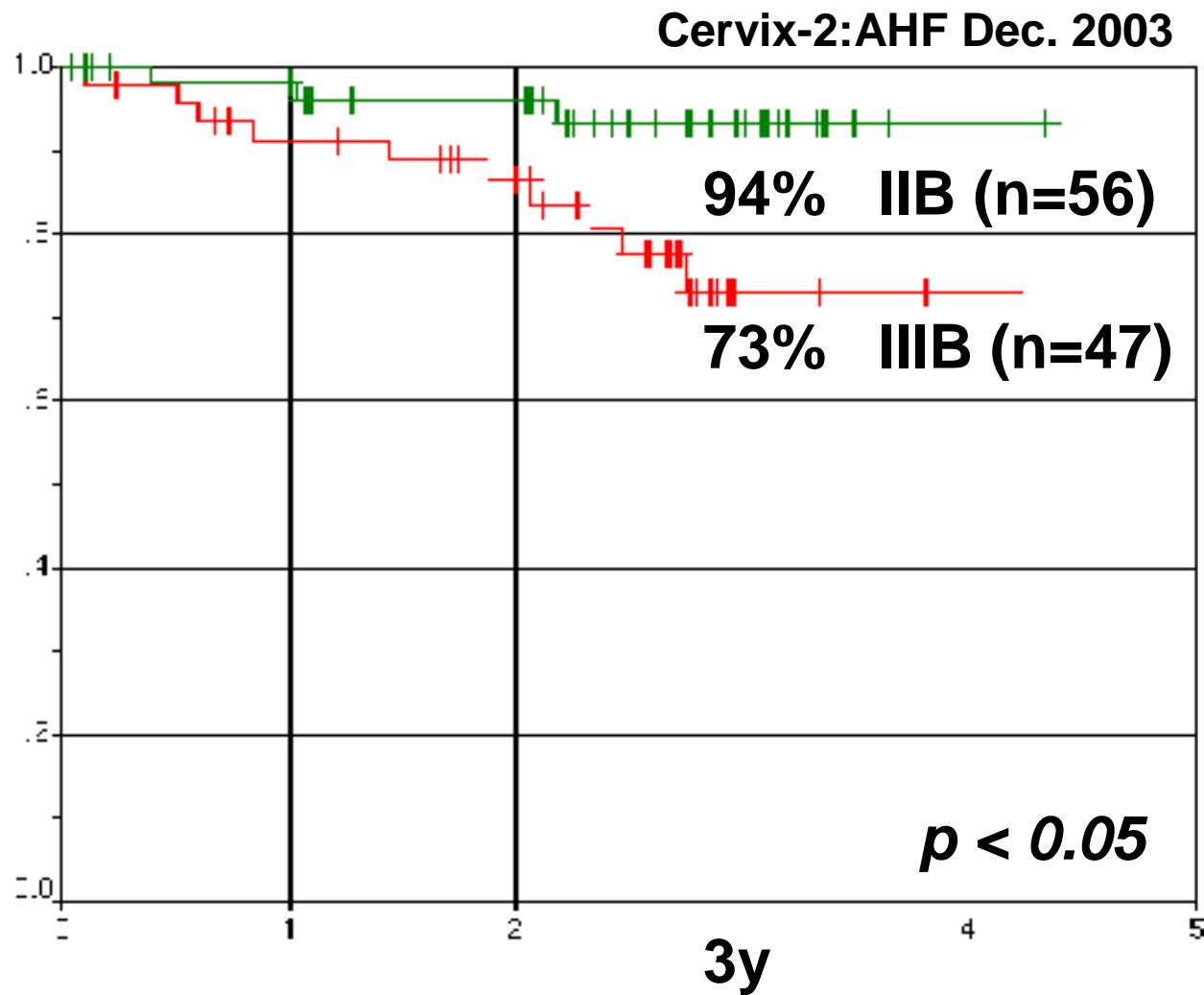
Local Control

{ for all 103 patients
by FIGO stage
by tumor size
by parametrium involvement

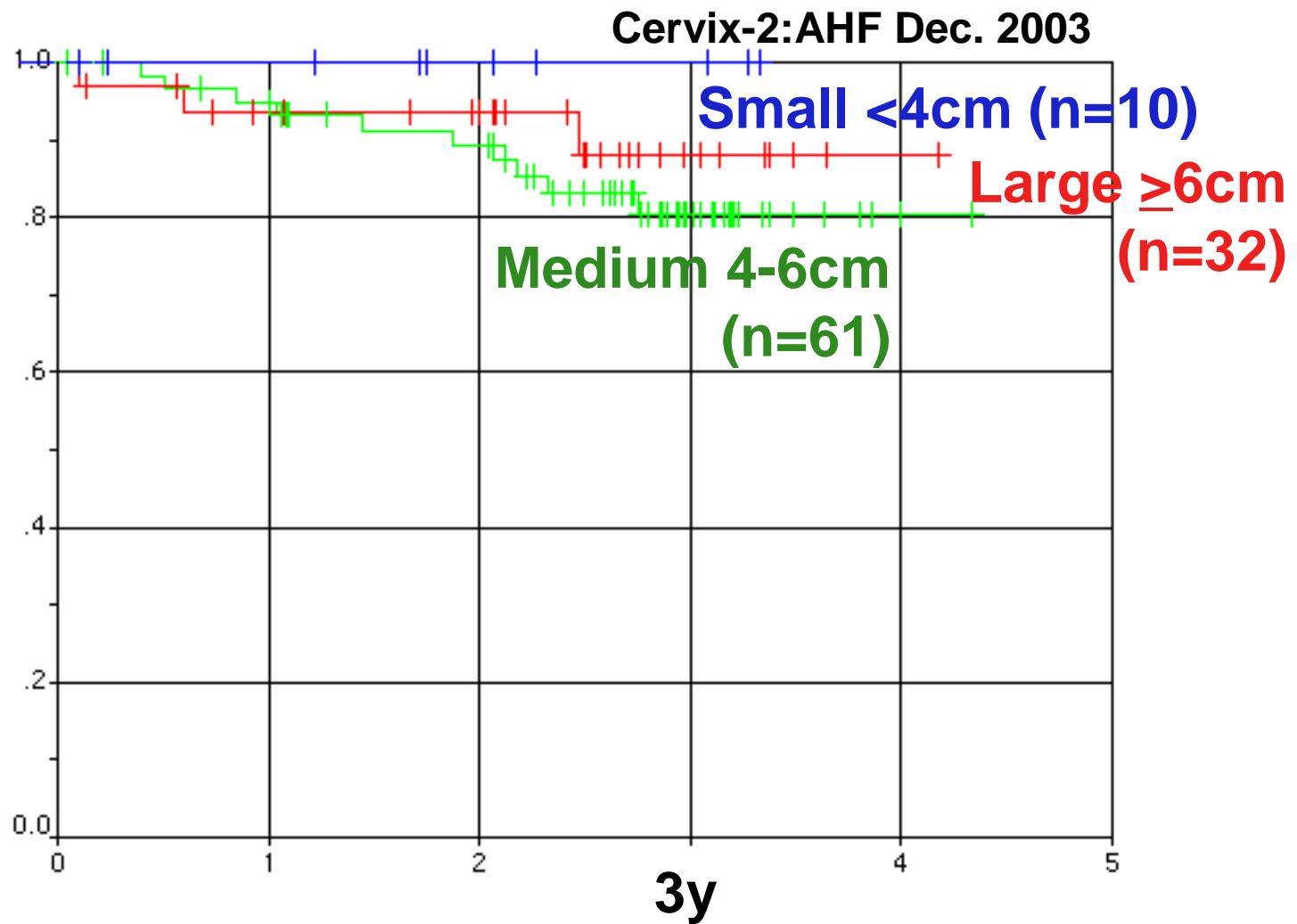
Overall Survival for All 103 Patients



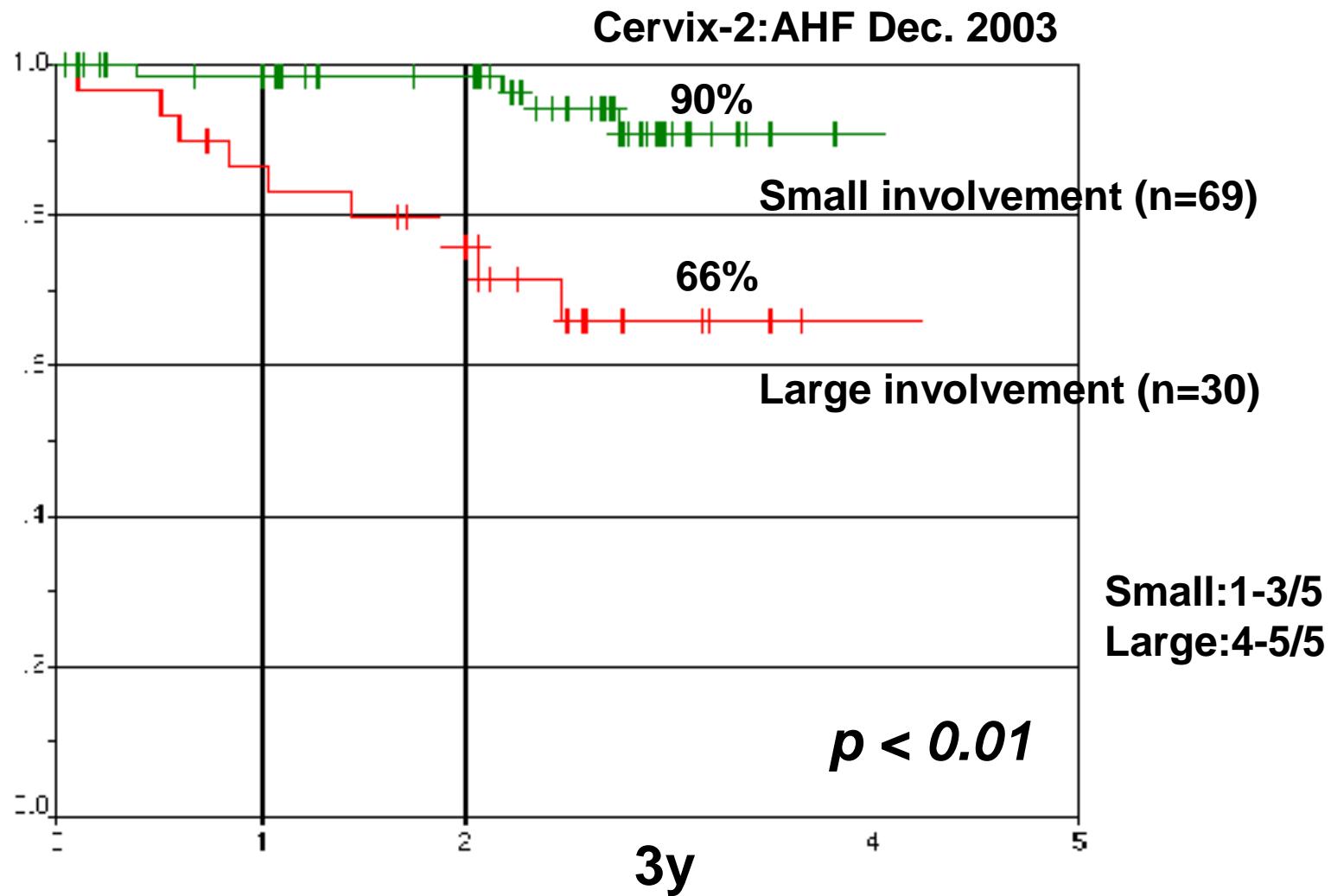
Overall Survival by FIGO Stage



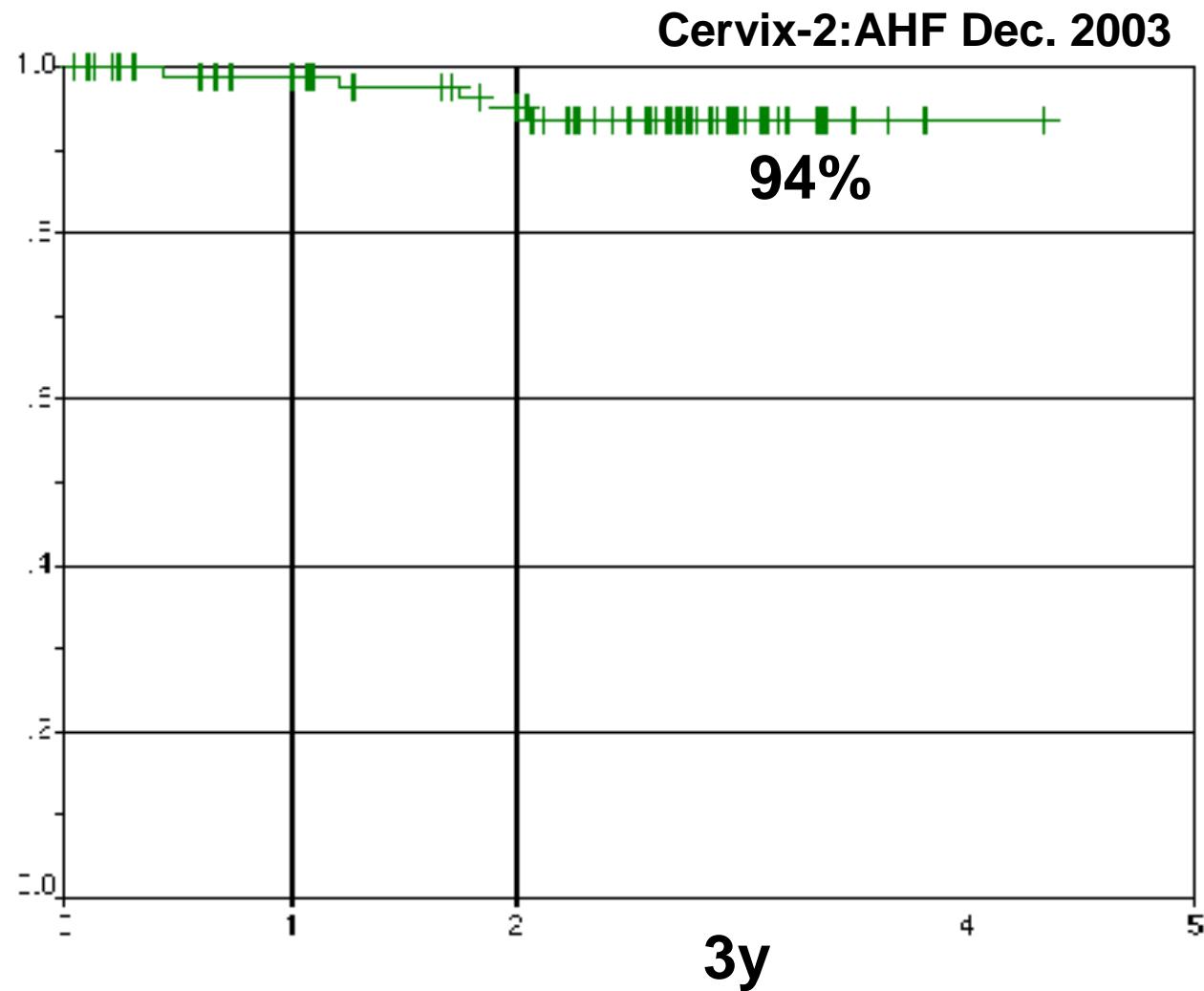
Overall Survival by Tumor Size



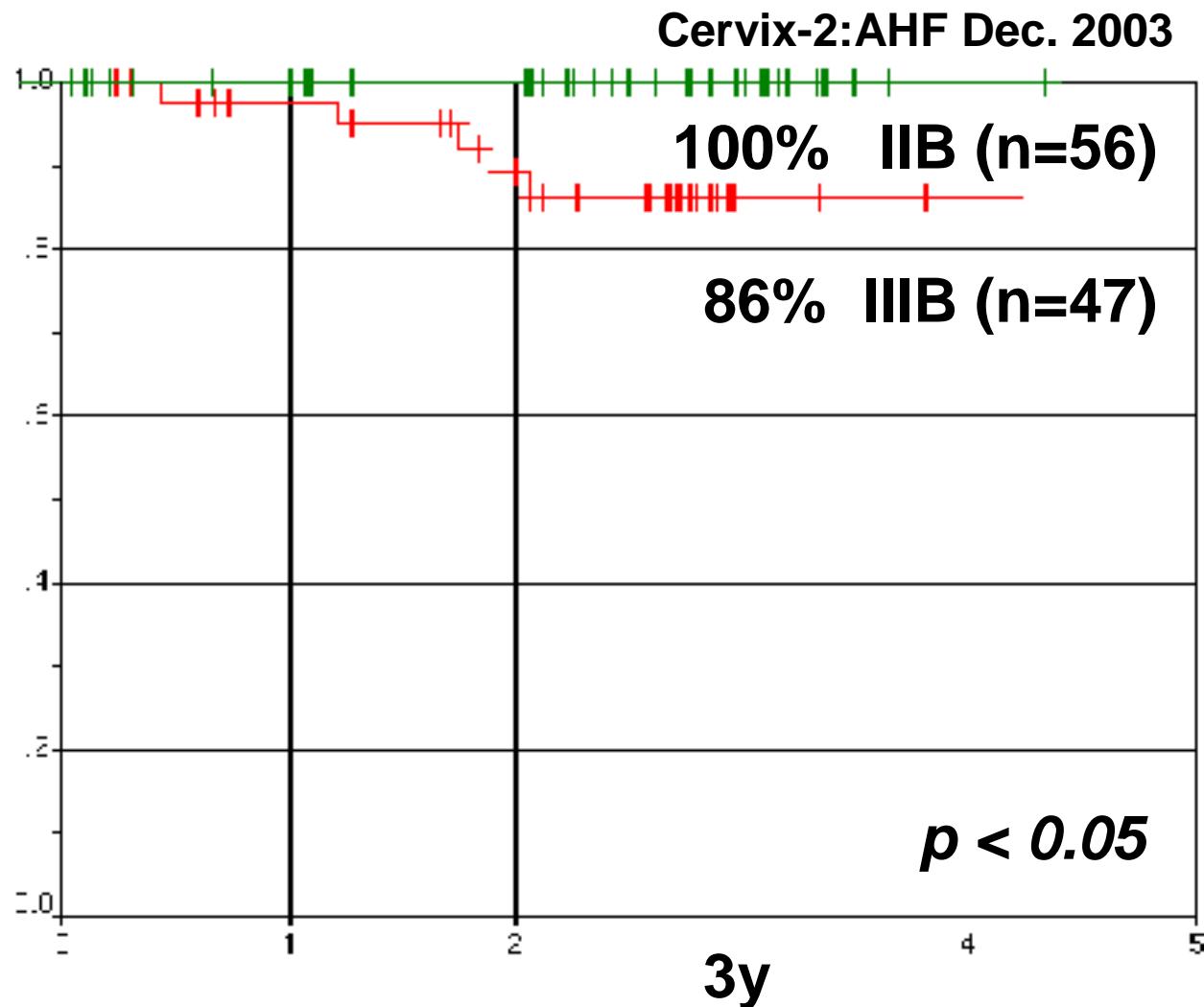
Overall Survival by Parametrium Involvement



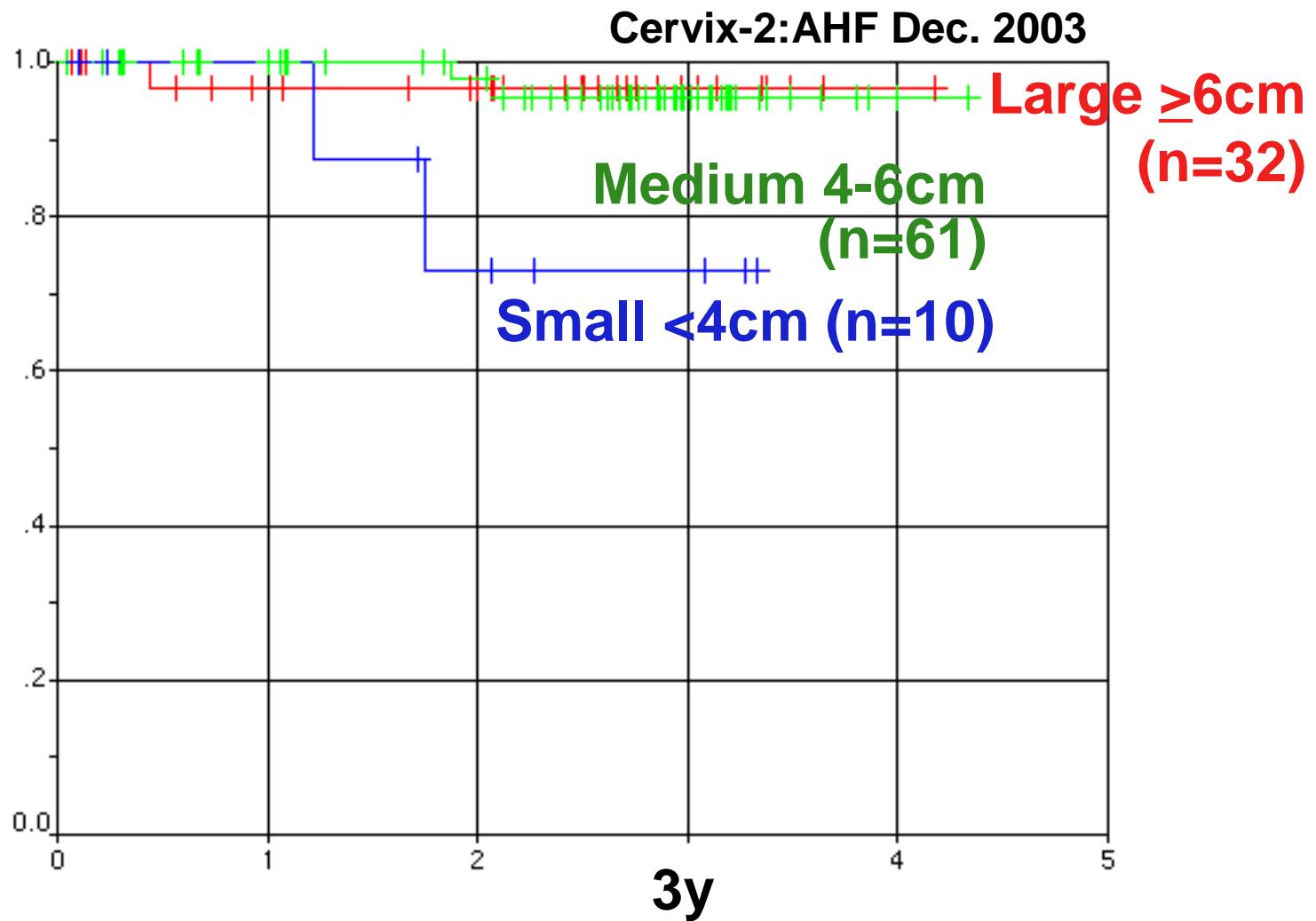
Local Control for All 103 Patients



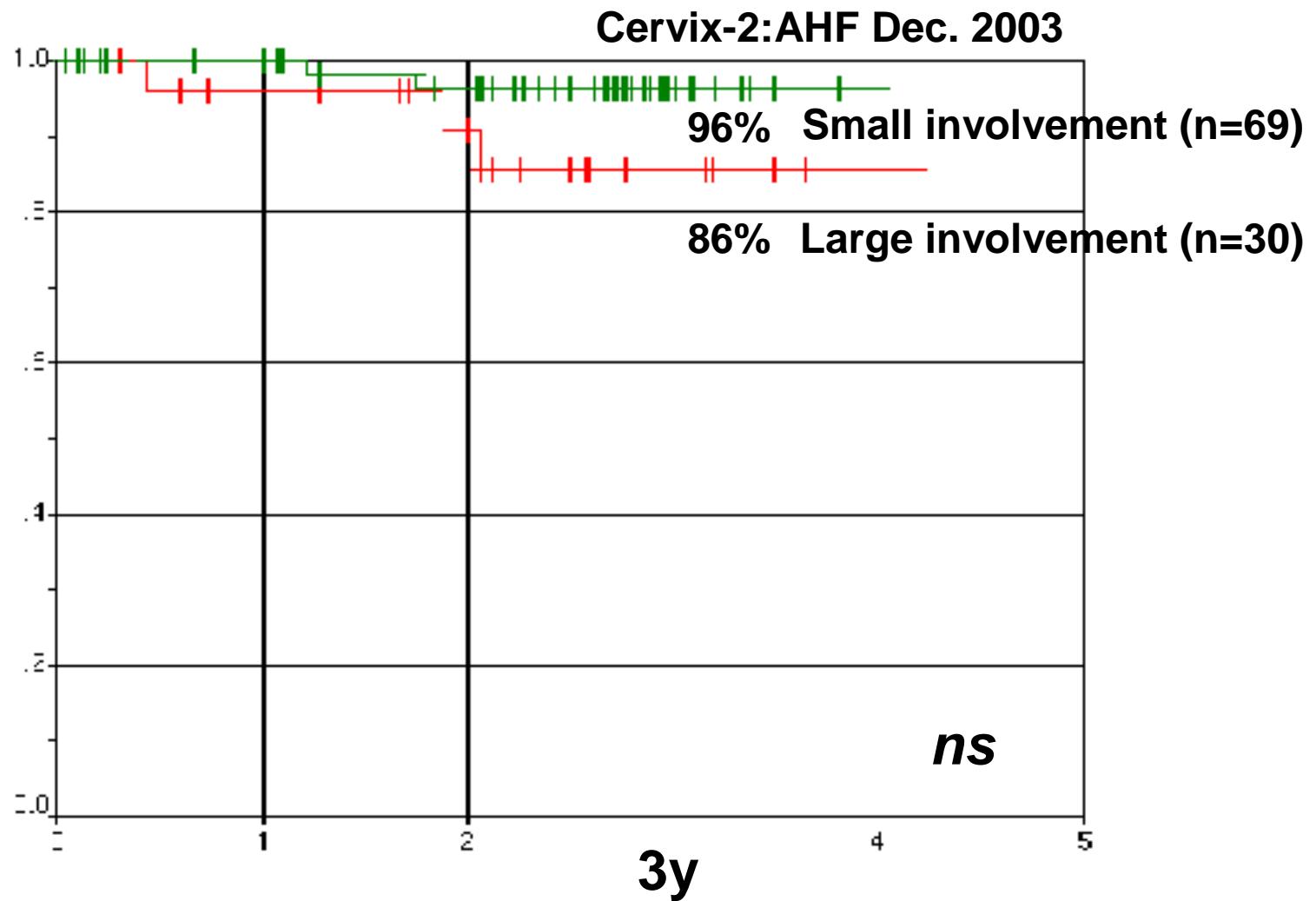
Local Control by FIGO Stage



Local Control by Tumor Size



Local Control by Parametrium Involvement



Comparison between Cervix-I and Cervix-II

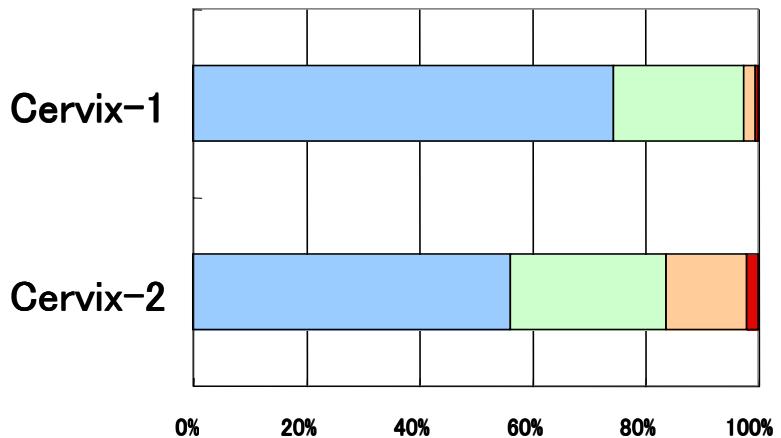
Patients Characteristics in Cervix-1 and -2

	Cervix-1 (n=210)	Cervix-2 (n=103)
Mean Age	56	54
FIGO Stage	IIB 0 (0%)	56 (54%)
	IIIB 209 (100%)	47 (46%)
Tumor Size	<4cm 71 (34%)	10 (10%)
	4-6cm 108 (52%)	61 (59%)
	≥6cm 30 (14%)	32 (31%)
PM involvement		
Small (1-3/5)	93 (44%)	69 (67%)
Large (4-5/5)	83 (40%)	30 (29%)
Followed	154 (74%)	87 (84%)
Not Followed	55 (26%)	16 (16%)

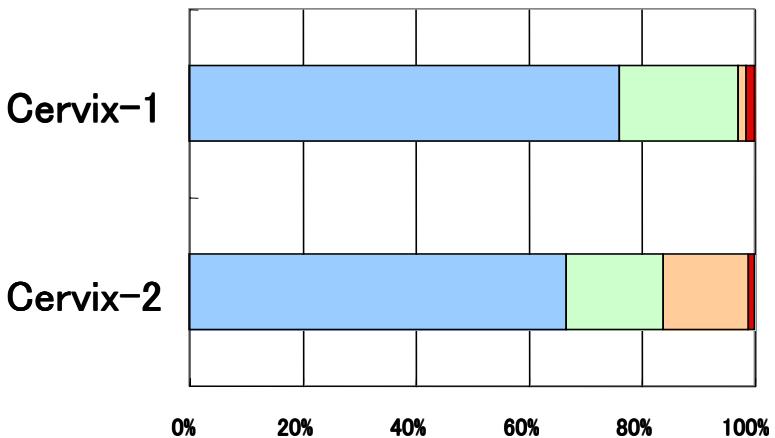
Acute Morbidity

G0
G1
G2
G3-4

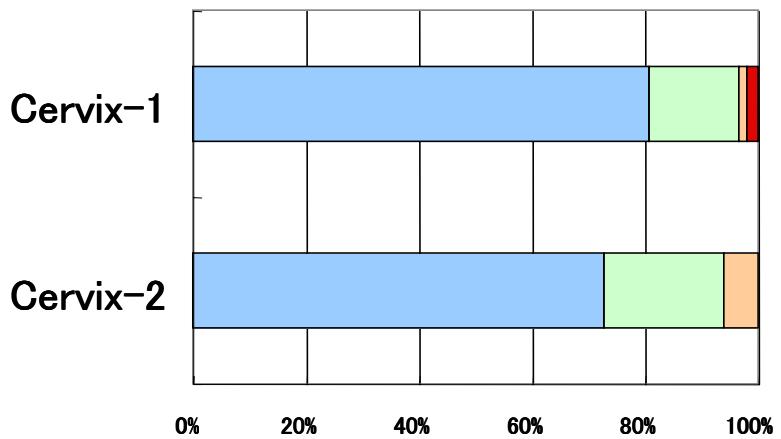
Rectum



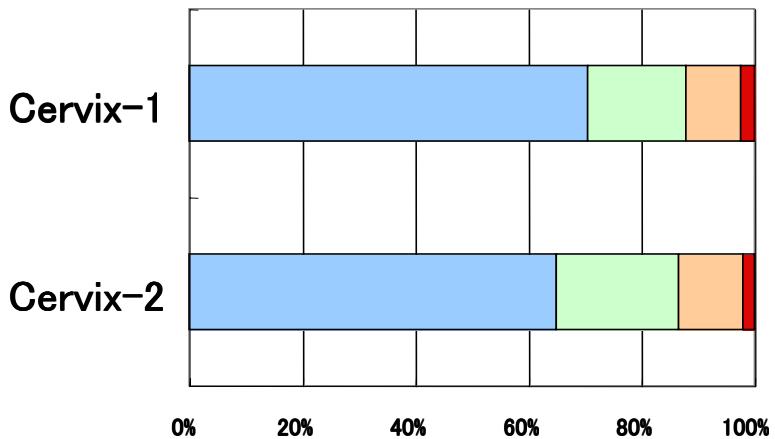
Intestine



Bladder



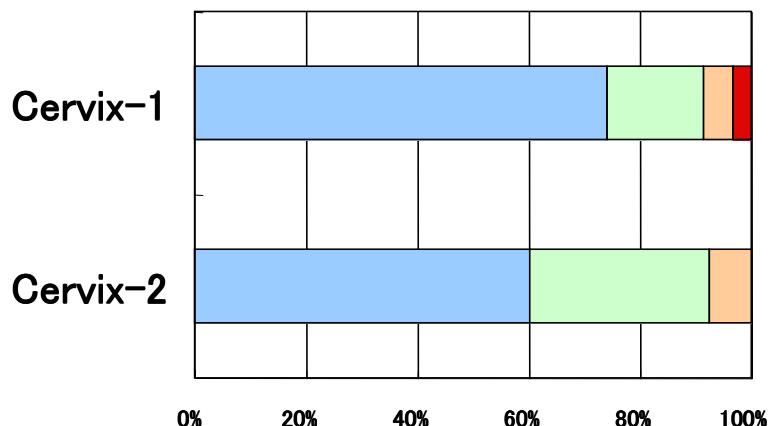
Mucosa



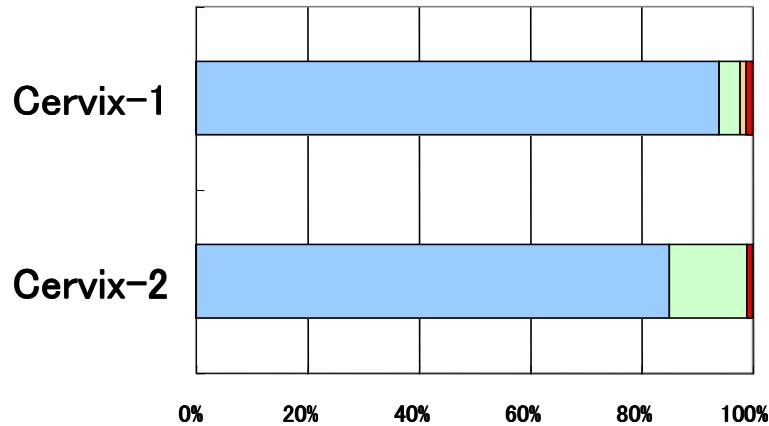
Late Morbidity

G0
G1
G2
G3-4

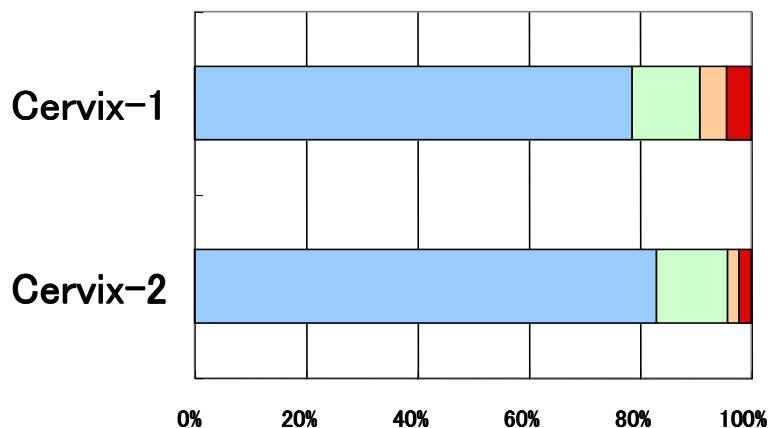
Rectum



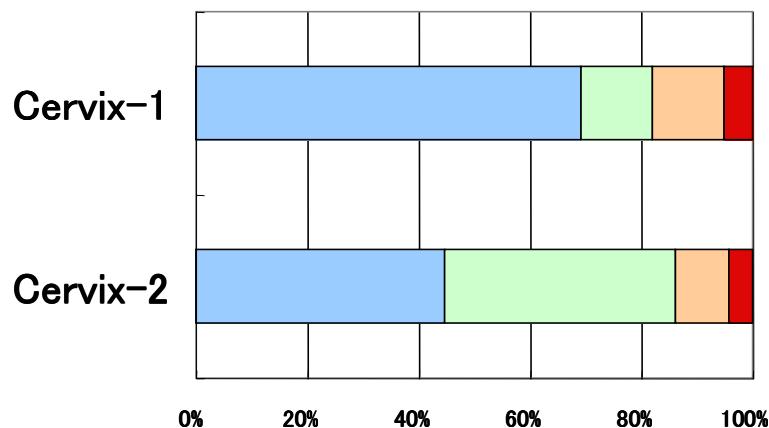
Intestine



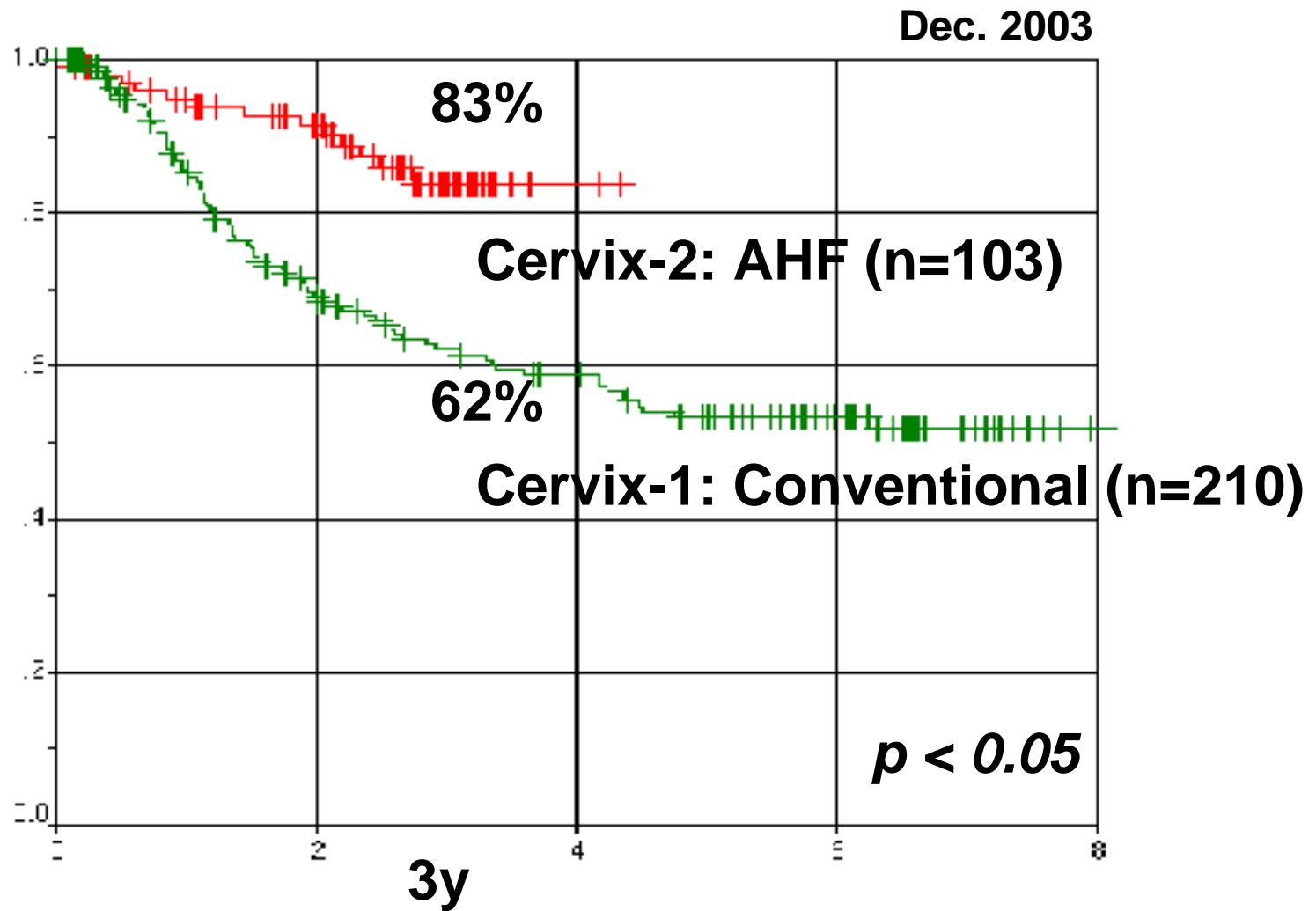
Bladder



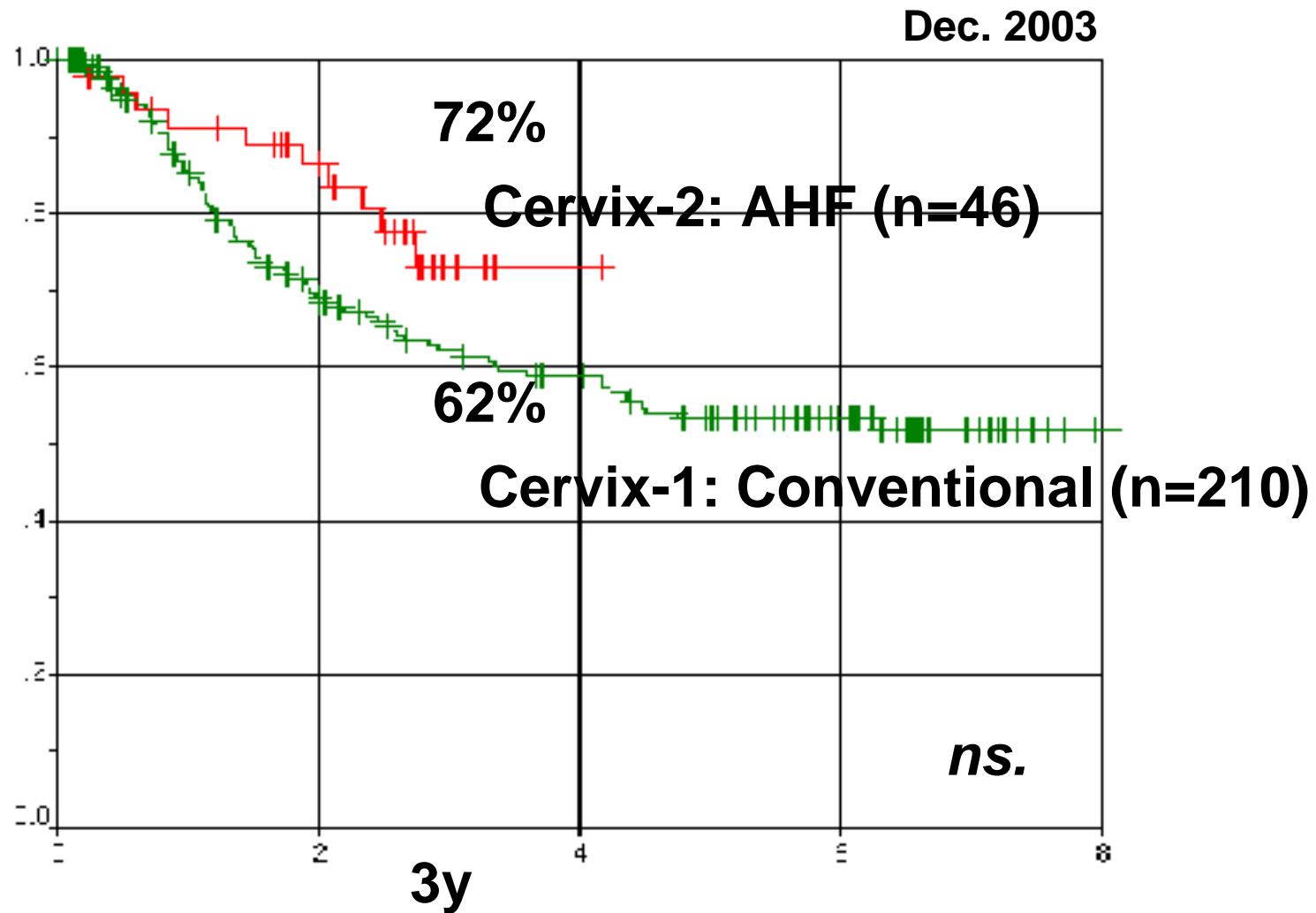
Mucosa



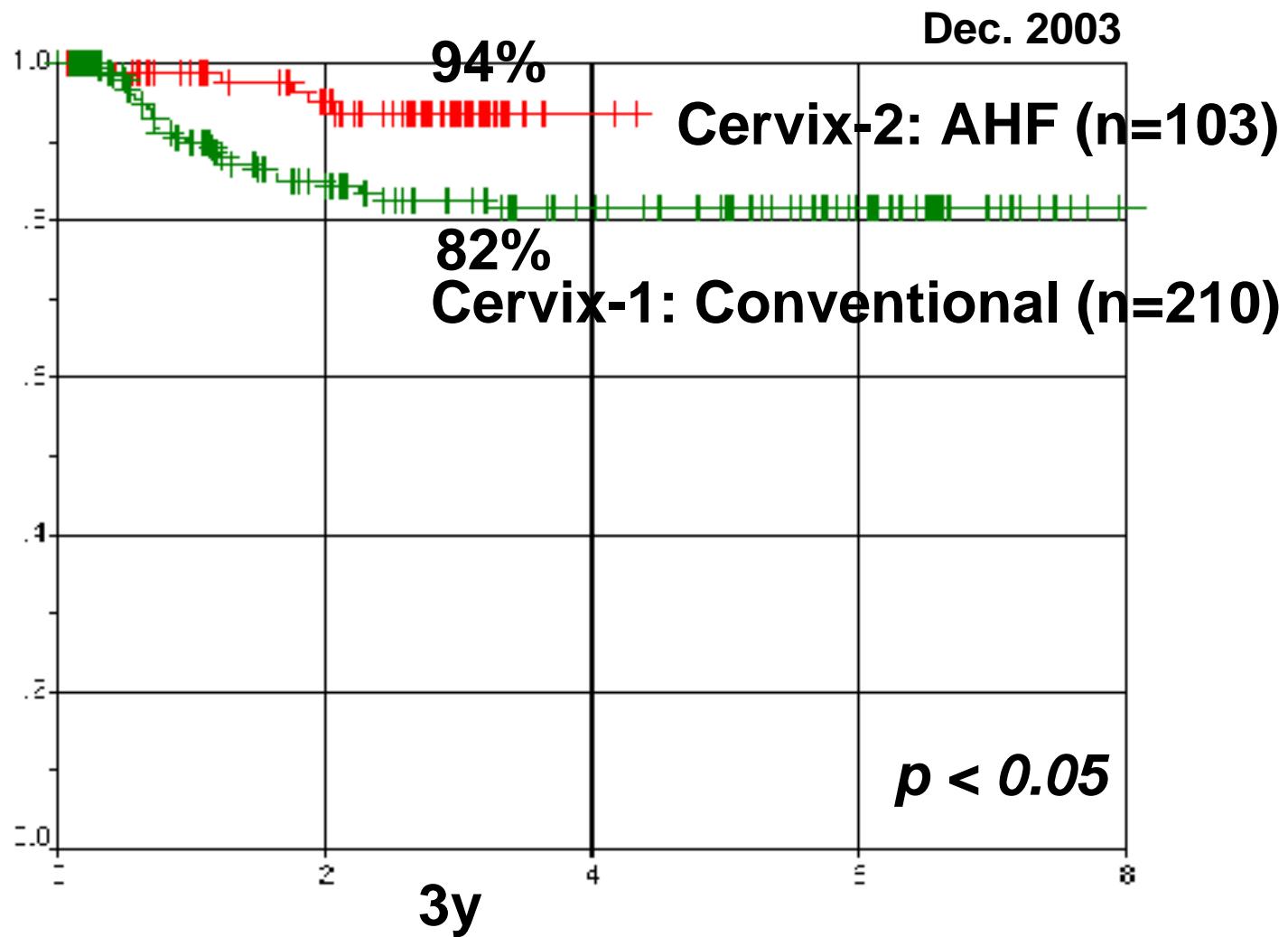
Overall Survival for All Patients



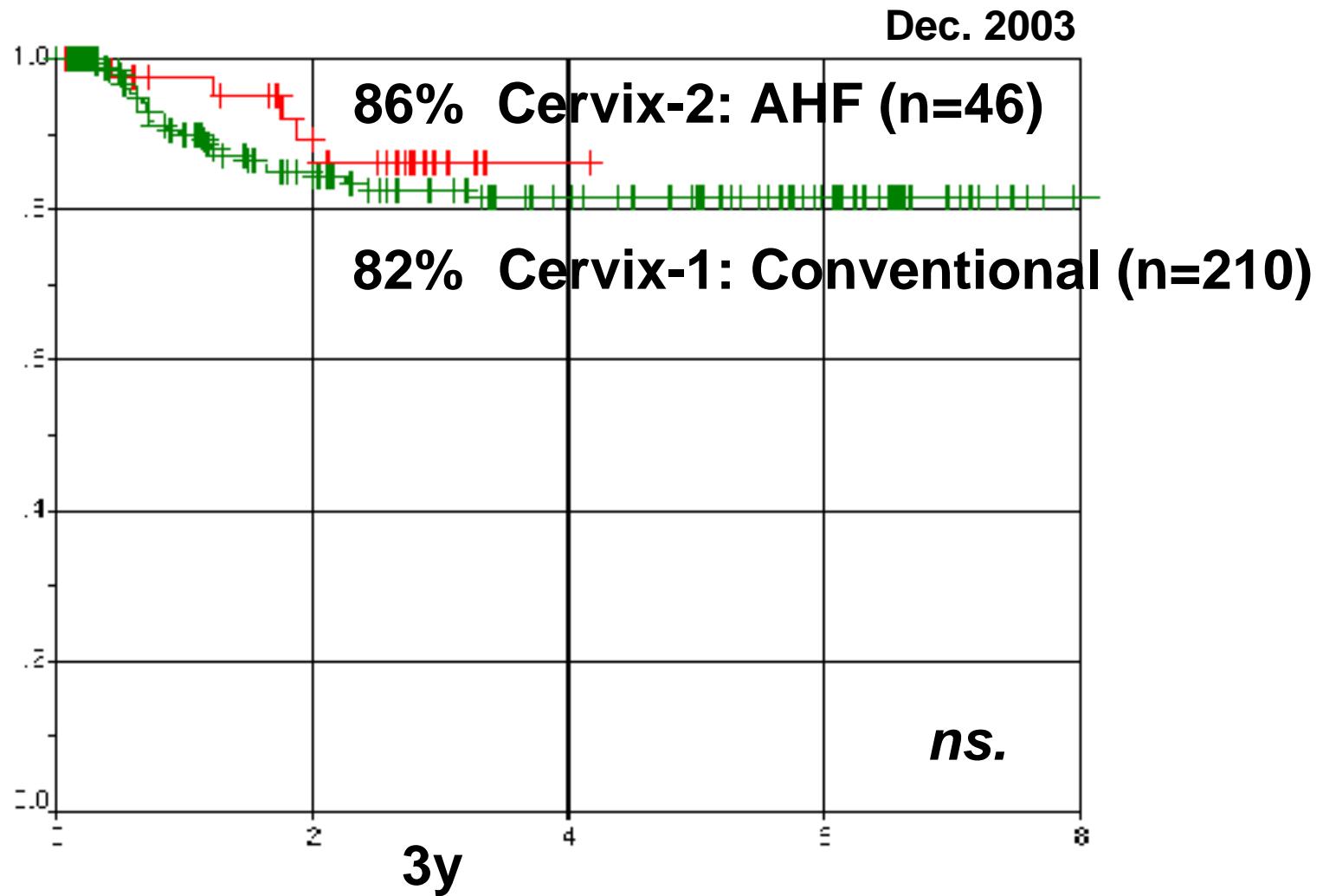
Overall Survival for Patients with Stage IIIB



Local Control for All Patients



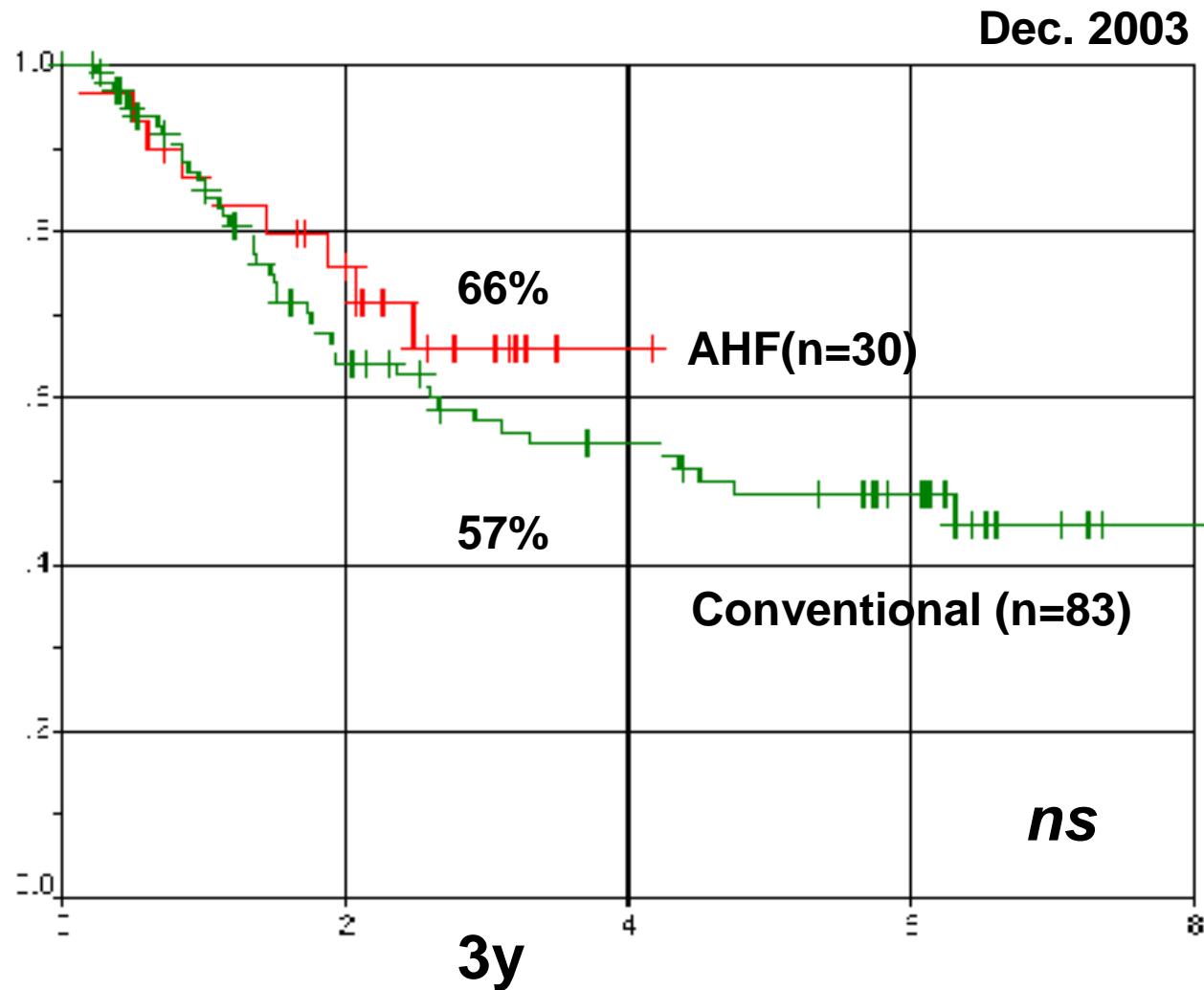
Local Control for Patients with Stage IIIB



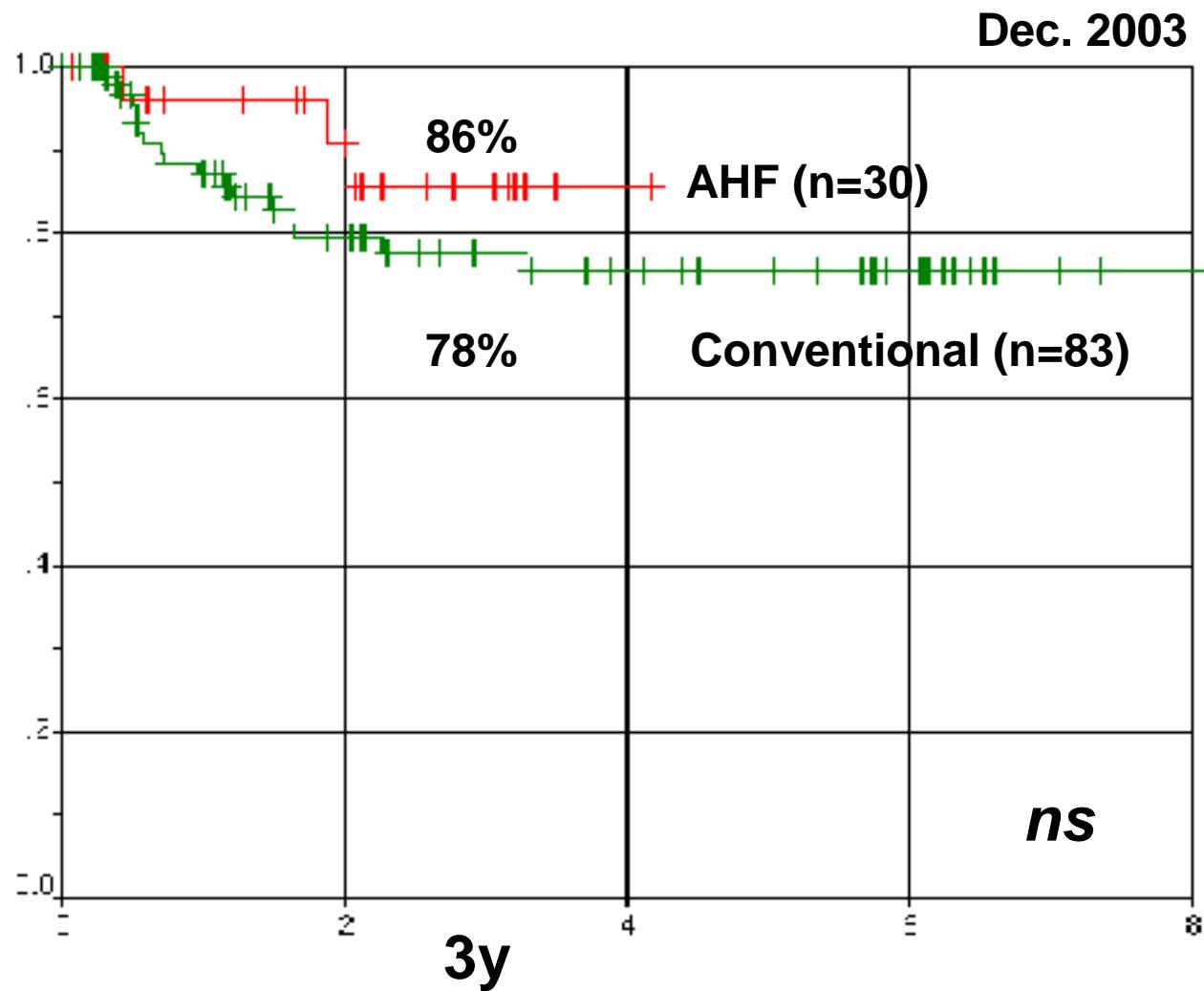


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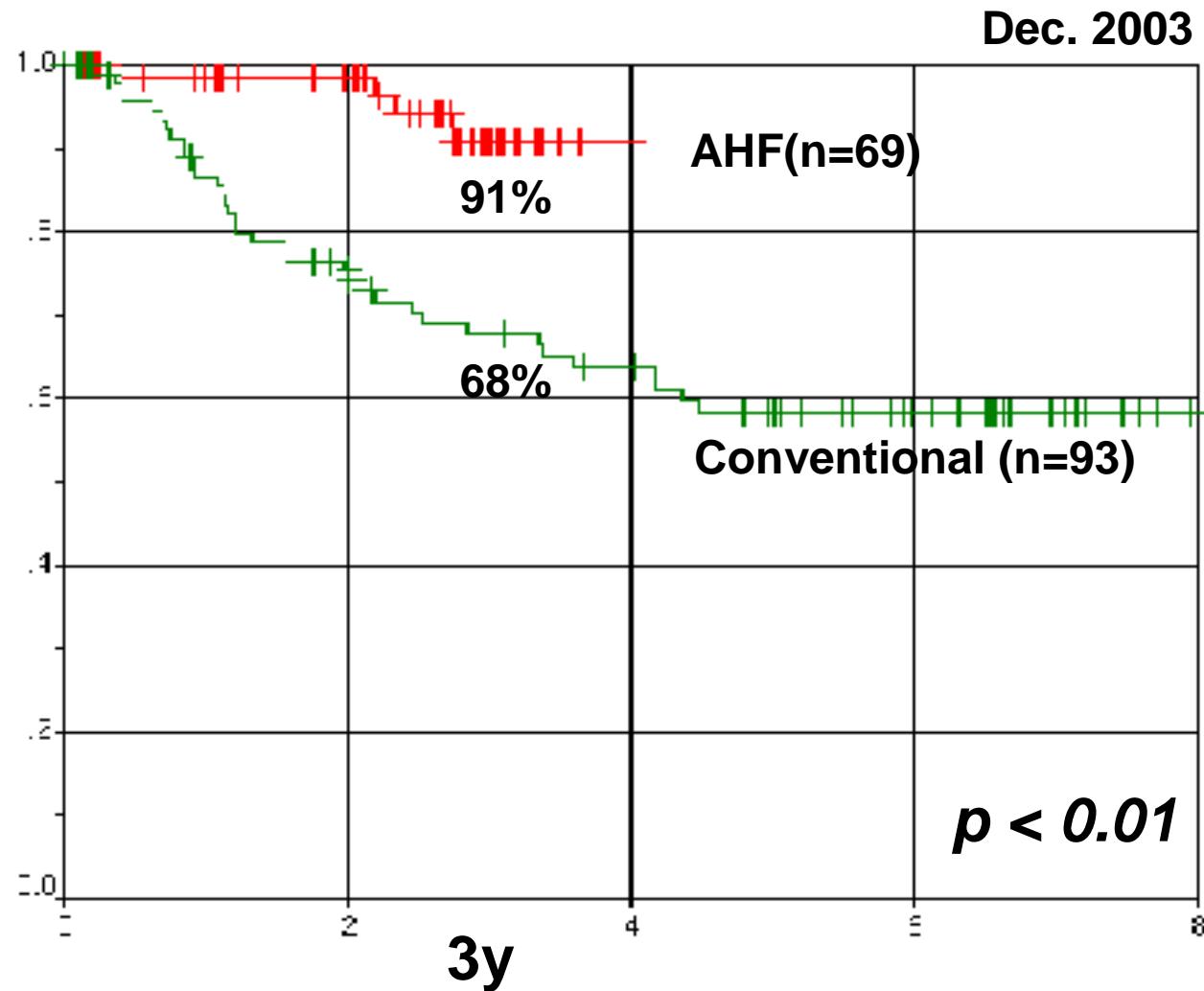
Overall Survival of Large Parametrium Involvement



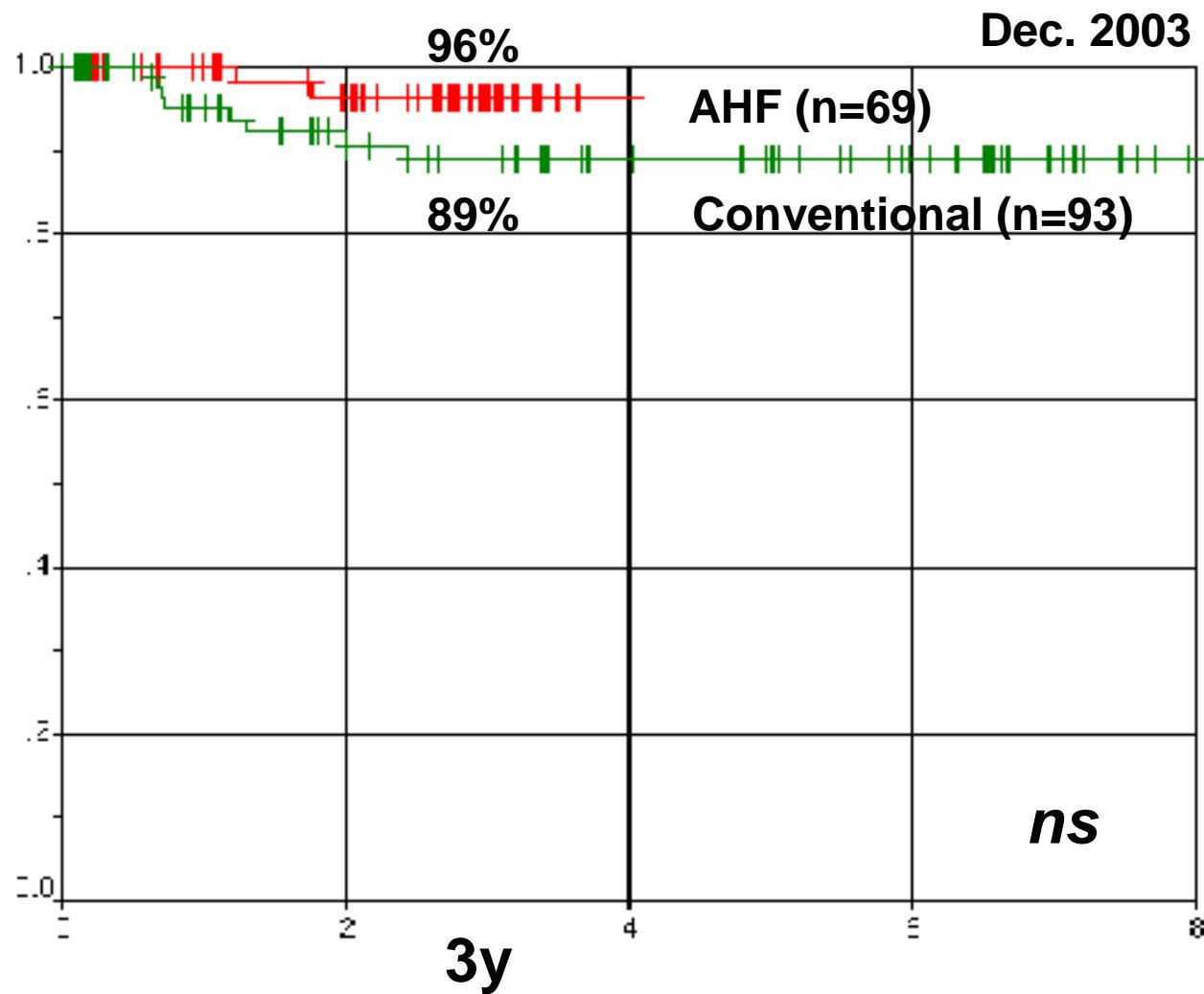
Local Control of Large Parametrium Involvement



Overall Survival of Small Parametrium Involvement



Local Control of Small Parametrium Involvement



**Impact of Overall
Treatment Time**

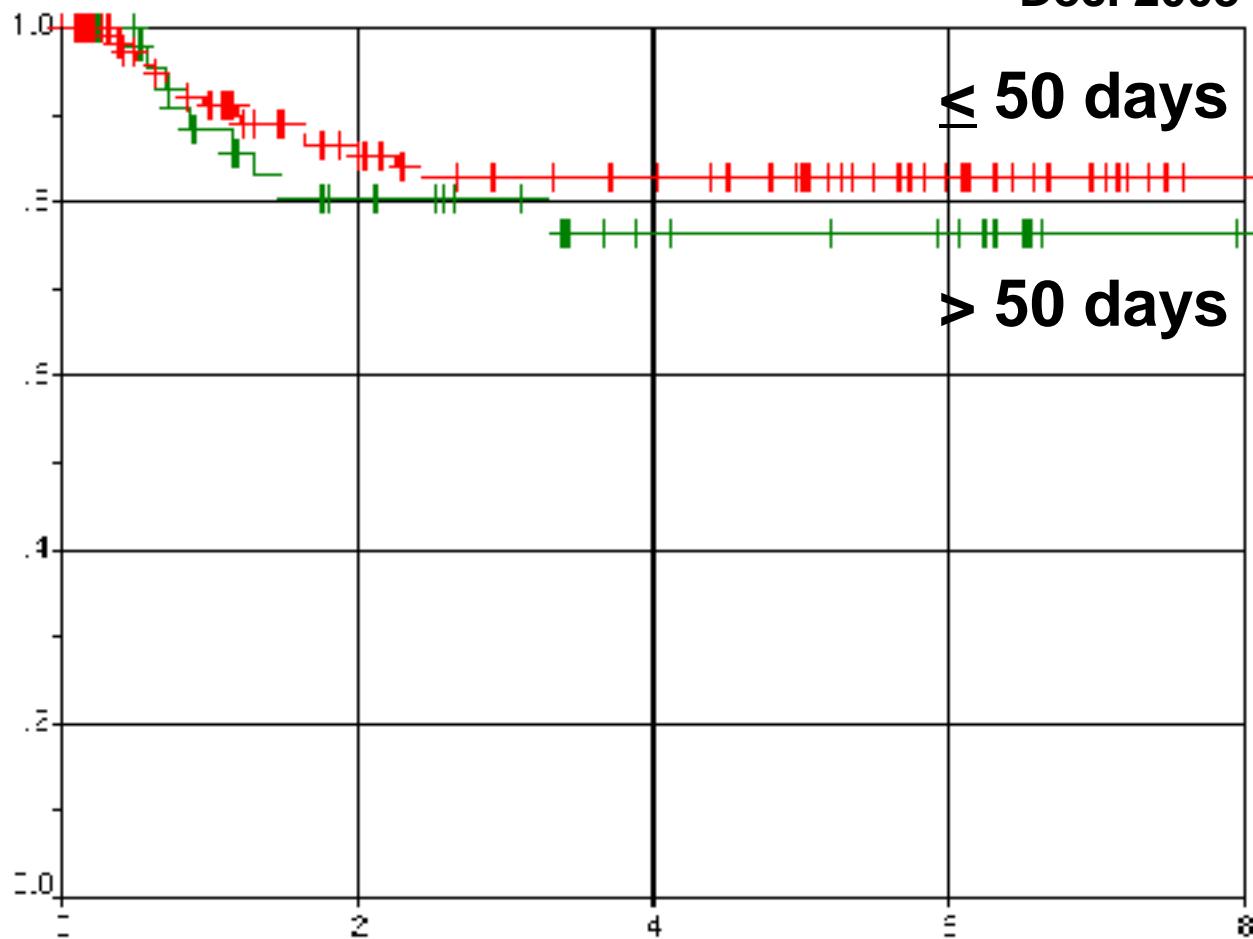
on

**Local Control and
Overall Survival**

Local Control by OTT

Cervix-1

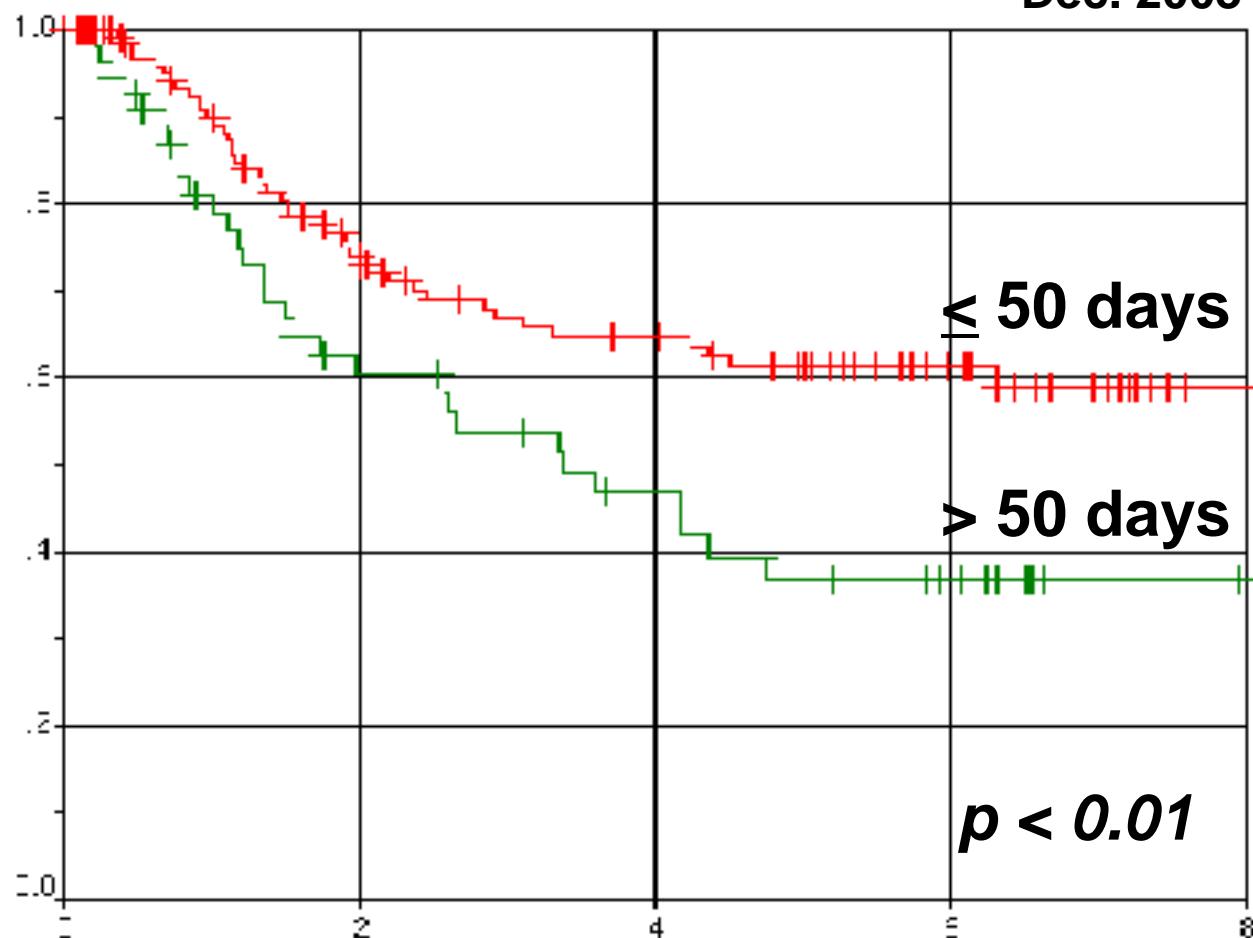
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Overall Survival by OTT

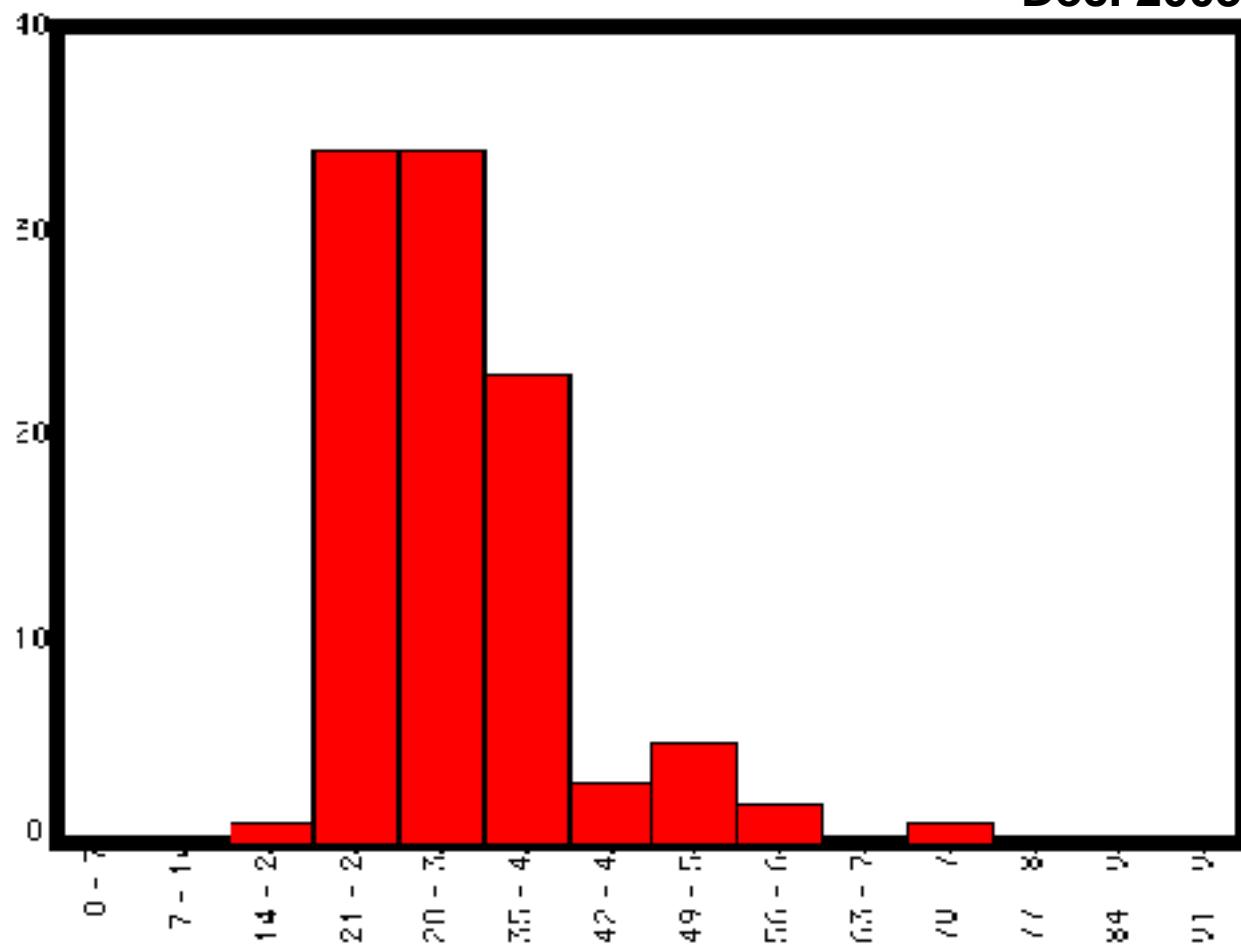
Cervix-1

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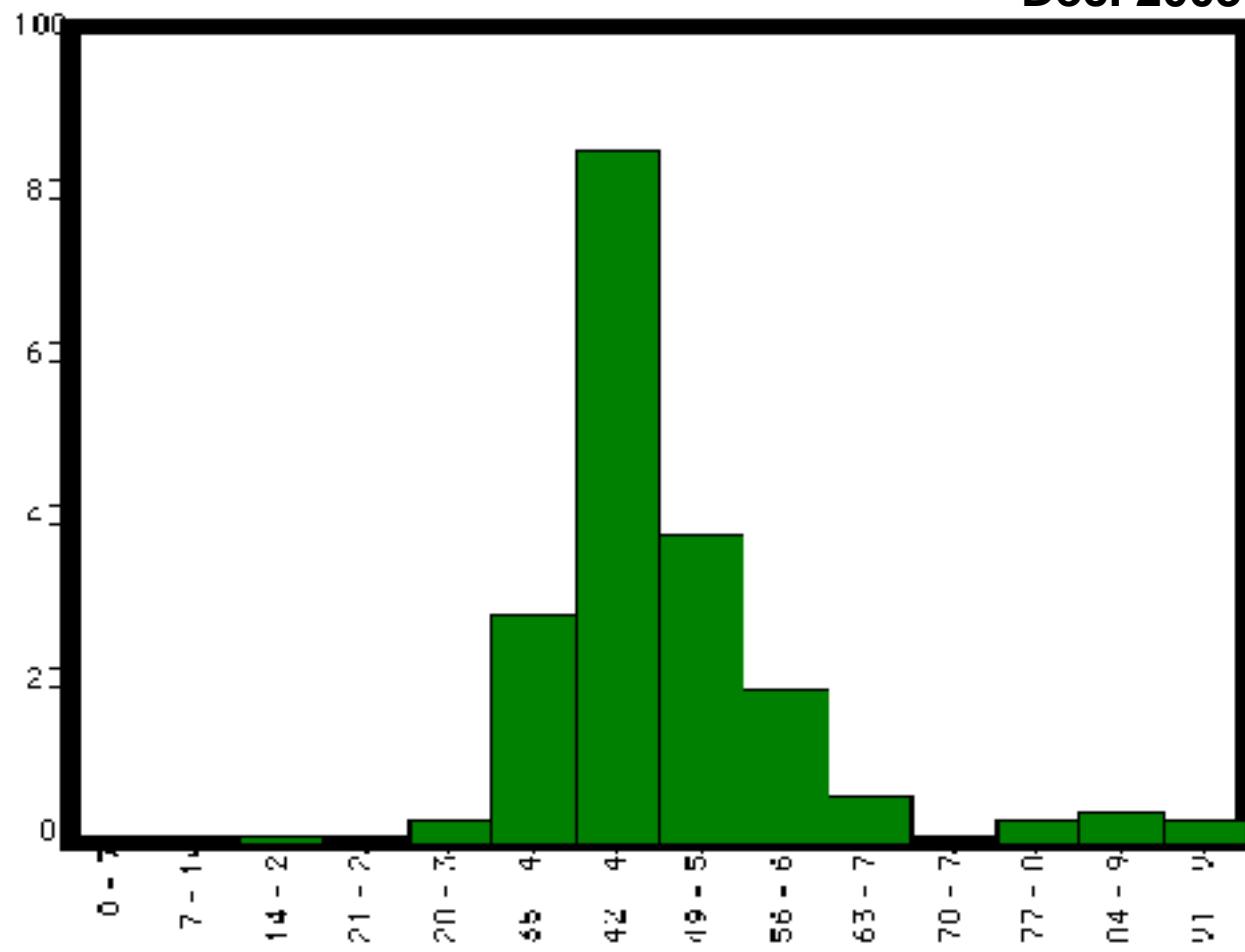
Distribution of OTT in Cervix-2

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Distribution of OTT in Cervix-1

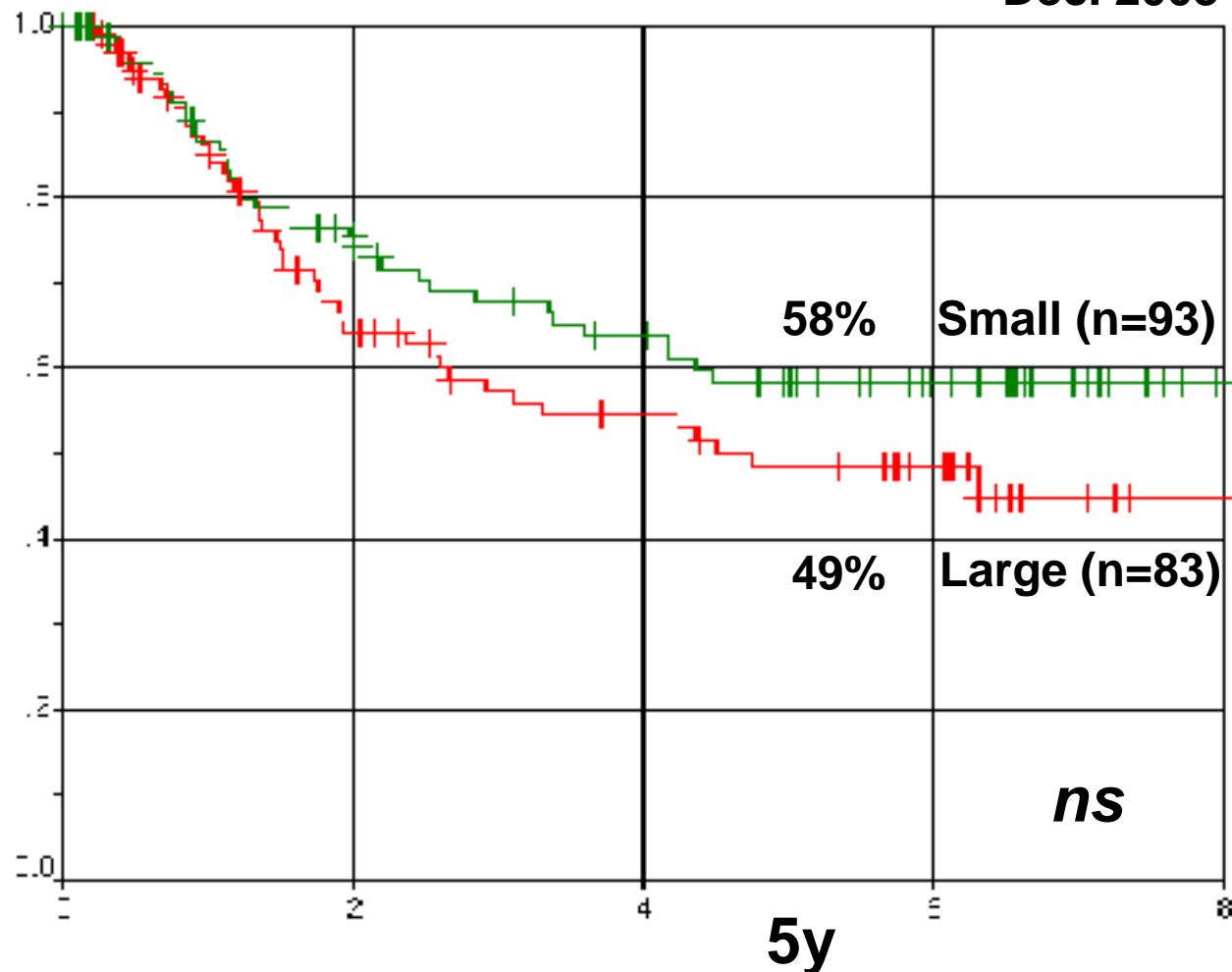
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Overall Survival by Parametrium Involvement

Cervix-1

Dec. 2003



Local Control by Parametrium Involvement

Cervix-1

Dec. 2003

