Appendix

A. Factors associated with receipt of RT dose ≥80 Gy (n=65) vs. <80 Gy (n=122) in FIGO stage IIIB cervical cancer in Botswana.

	Total Dose ≥80 Gy (n=65)	Total Dose <80 Gy (n=122)	P value
	No. Patients (%)	No. Patients (%)	
Weight (kg) ^a			
≥60	33 (59)	41 (41)	0.04
- <60	23 (41)	58 (59)	
BMI $(kg/m^2)^a$,		
≤20	39 (72)	62 (70)	0.75
>20	15 (28)	27 (30)	
Age (years)	, ,	, ,	
≥50 years	31 (48)	58 (47.5)	0.98
<50 years	34 (52)	64 (52.5)	
\mathbf{TTT}^b			
>3 Months	31 (60)	59 (65)	0.53
≤3 Months	21 (40)	32 (35)	
RT Course Leng			
≥7 weeks	40 (61.5)	40 (33)	< 0.01
<7 weeks	25 (38.5)	81 (67)	
Creatinine (µmo			
>90	6 (10)	25 (21)	0.05
≤90	56 (90)	92 (79)	
KPS			
40-80	18 (28)	36 (30)	0.77
90-100	47 (72)	85 (70)	
HIV Status			
HIV-seropositi	ive 43 (66)	75 (61.5)	0.53
HIV-seronegat		47 (38.5)	
Brachytherapy ^a			
Yes	64 (98.5)	56 (46)	< 0.01
No	1 (1.5)	66 (54)	
Chemotherapy			
Yes	43 (66)	47 (38.5)	< 0.01
No	22 (34)	75 (61.5)	
Treatment Resp	onse ^c		
Complete	36 (63)	44 (44)	0.02
Non-Complete	e 21 (37)	56 (56)	
EBRT Boost ^a			
Yes	18 (28)	40 (33)	0.47
No	47 (72)	82 (67)	
Hemoglobin (g/d	a L) a		
<12 g/dL	48 (80)	91 (81)	0.84
≥12 g/dL	12 (20)	21 (19)	
Treatment Year	•		
2013-2015	19 (29)	54 (44)	0.05
2016-2018	46 (71)	68 (56)	

Abbreviations: RT, radiation therapy; BMI, body mass index; TTT, time to treatment; KPS, Karnofsky Performance Score; HIV, human immunodeficiency virus; EBRT, external beam radiation therapy.

^a Data is incomplete due to individual missing patient data.

^b TTT is defined as time from pathological defined as the time from biopsy to treatment initiation.

^c Treatment response is defined as clinically apparent tumor regression on exam.

B. Factors associated with receipt of Chemotherapy (n=90) vs. No Chemotherapy (n=97) in FIGO stage IIIB cervical cancer in Botswana.

Variable C	Chemotherapy (n=90) No. Patients (%)	None (n=97) No. Patients (%)	P value
≤20	59 (78)	42 (63)	0.05
>20	17 (22)	25 (37)	
Weight (kg) a	,	` ,	
≥60	43 (53)	31 (42)	0.16
<60	38 (47)	43 (58)	
Age (years)		, ,	
≥50 years	39 (43)	50 (51.5)	0.26
<50 years	51 (57)	47 (48.5)	
\mathbf{TTT}^{b}			
>3 Months	27 (51)	63 (70)	0.02
≤3 Months	26 (49)	27 (30)	
RT Course Leng		• •	
≥7 weeks	47 (53)	33 (34)	0.01
<7 weeks	42 (47)	64 (66)	
Creatinine (µmo	$(\mathbf{L})^a$, ,	
>90	4 (5)	27 (28)	< 0.01
≤90	80 (95)	68 (72)	
KPS			
40-80	23 (26)	31 (32)	0.31
90-100	67 (74)	65 (68)	
Tuberculosis			
Yes	8 (9)	9 (9)	0.93
No	82 (91)	88 (91)	
HIV Status			
Positive	58 (64)	60 (62)	0.71
Negative	32 (36)	37 (38)	
Brachytherapy ^a			
Yes	77 (86)	43 (44)	< 0.01
No	13 (14)	54 (56)	
Treatment Resp		, ,	
Complete	45 (58)	35 (44)	0.07
Non-Complete	e 32 (42)	45 (56)	
EBRT Boost ^a	, ,	` ,	
Yes	23 (26)	35 (36)	0.12
No	67 (74)	62 (64)	
Hemoglobin (g/d			
<12 g/dL	57 (69.5)	82 (91)	< 0.01
≥12 g/dL	25 (30.5)	8 (9)	
Treatment Year		• •	
2013-2015	42 (47)	31 (32)	0.04
2016-2018	48 (53)	66 (68)	

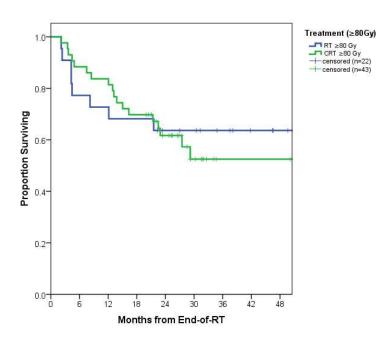
Abbreviations: BMI, body mass index; RT, radiation therapy; TTT, time to treatment; KPS, Karnofsky Performance Score; HIV, human immunodeficiency virus; EBRT, external beam radiation therapy.

^a Data is incomplete due to individual missing patient data.

 $[^]b$ TTT is defined as time from pathological defined as the time from biopsy to treatment initiation.

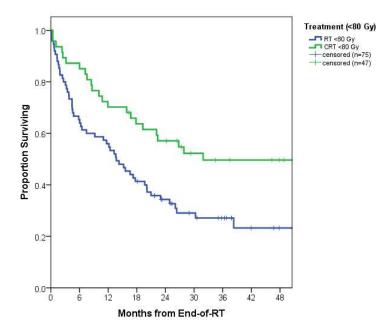
^c Treatment response is defined as clinically apparent tumor regression on exam.

C. Survival outcomes by receipt of chemotherapy for patients receiving adequate RT (total EQD2 \geq 80 Gy): CRT (n=43) versus RT alone (n=22). Survival outcomes were similar with or without concurrent chemotherapy: 2-year OS was 61.7 \pm 7.6% months versus 57.1 \pm 7.3% (p=0.766)



Abbreviations: RT, radiation therapy; EQD2, dose equivalent of 2 Gy per fraction; CRT, chemoradiation therapy.

D. Survival outcomes by receipt of chemotherapy for patients receiving "inadequate RT" (Total EQD2 <80 Gy): Chemo/RT (n=47) versus RT alone (n=75). Two-year OS was significantly improved with the addition of chemotherapy: $51.9 \pm 14.3\%$ versus $34.3 \pm 5.5\%$ (p = <0.01)



Abbreviations: RT, radiation therapy; EQD2, dose equivalent of 2 Gy per fraction; CRT, chemoradiation therapy.