

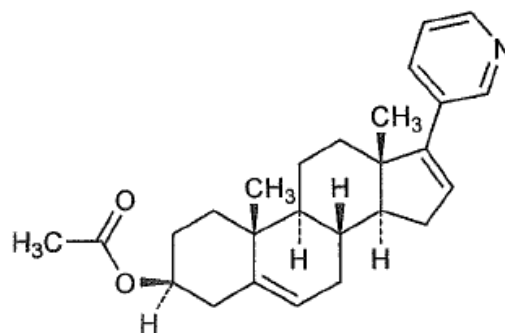
2015 05 06
2015 12 23
2016 02 09
2017 02 24
2018 01 24
2018 11 21
2019 03 06
2019 09 05
2020 06 30
2020 08 18

^{fi} Zytigā^{fi}

Abiraterone Acetate Tablets

Cusuan Abitelong Pian

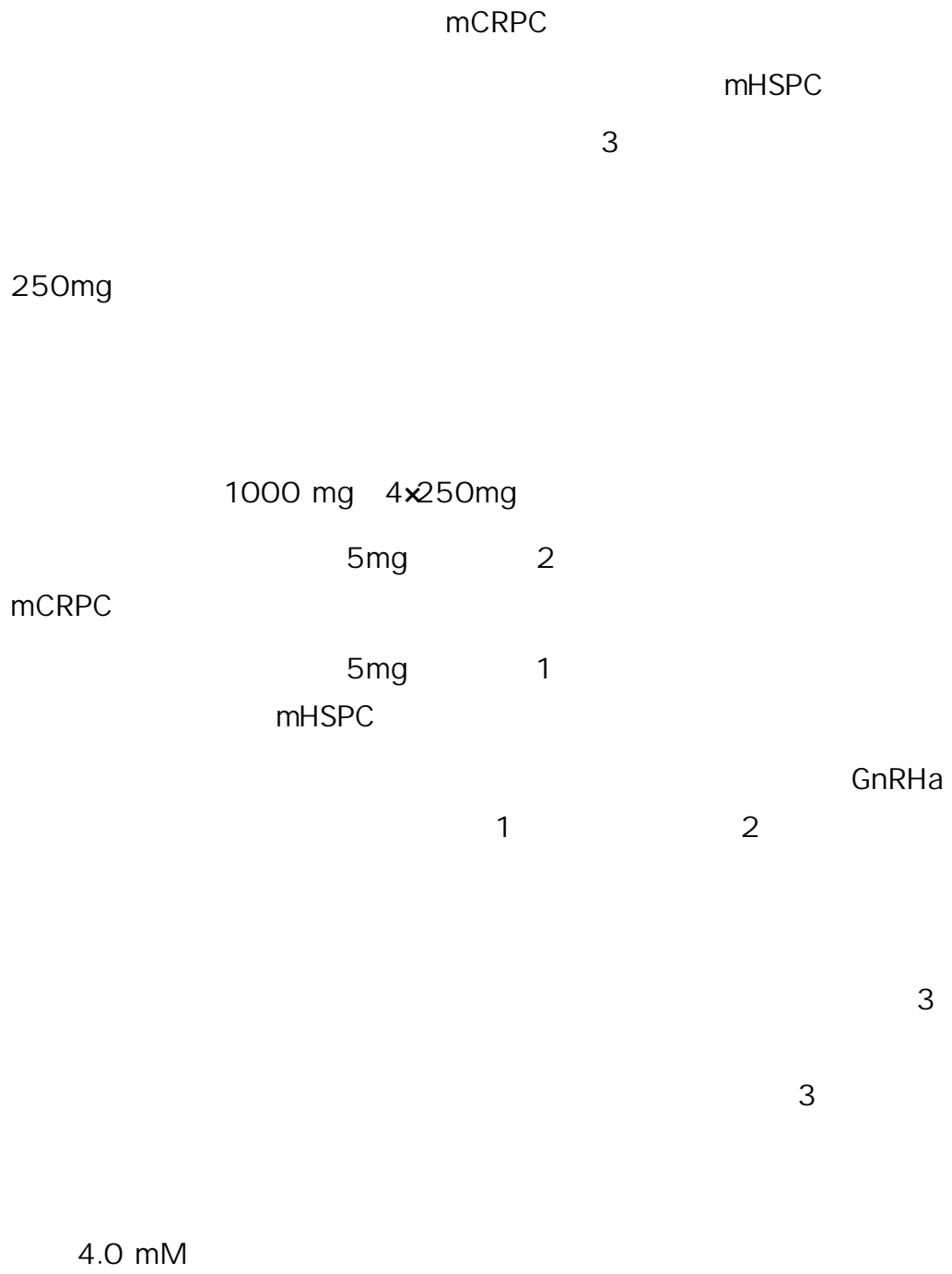
17(3) -5,16-3



$C_{28}H_{33}NO_2$

391.55

(K29/K32)



3 3

1

250mg

Child-Pugh B

1000 mg

Child-Pugh B

4

1 2 2

ALT AST

ALT / AST >5x ULN

>3xULN

Child-Pugh C

Child-Pugh C

8

AUC 7 2

ALT / AST >5xULN

>3xULN

AST \$/7" î8/1 " î8/1

750 mg 1 2 1

3 1

750 mg 1

AST \$/7" î8/1 " î8/1 500 mg 1

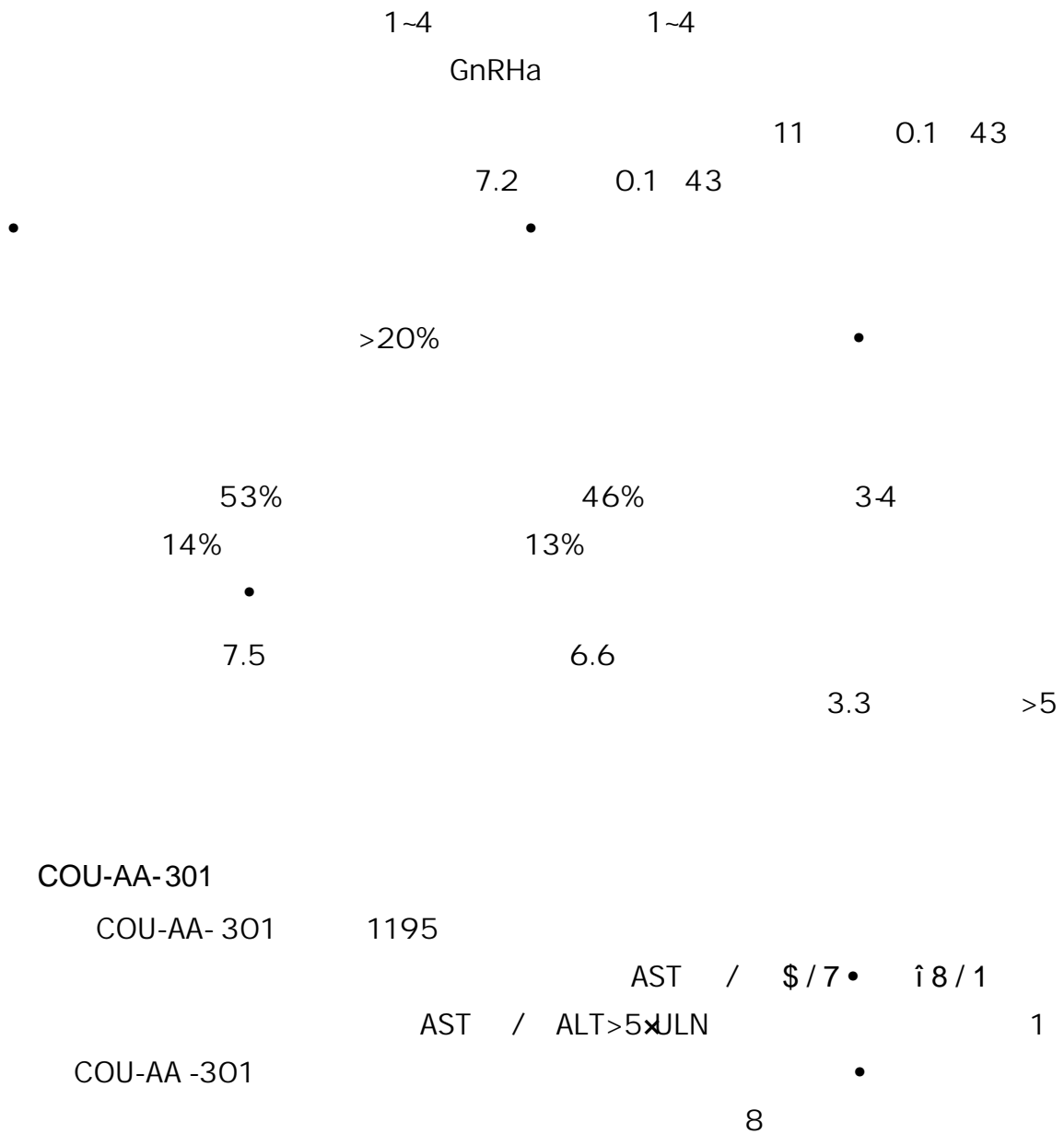
500 mg 1

ALT ALT

3xULN 2xULN

	CYP3A4			
		CYP3A4		
		2	CYP3A4	
2			1000 mg	1 1000 mg

				COU-AA- 301	COU-AA-
				1000mg	1
302	mCRPC			5mg	2
	5mg	2			
			212082PCB011		mHSPC
		1000mg		5 mg	1
		mCRPC		2	
ABI -PRO-3001		ABI -PRO-3002	5		2230



1 301

		+		+	
		(N = 791)		(N = 394)	
		1	3 4	3 4	
		%	%	%	%
/	2	30	4.2	23	4.1
3		26.2	3.0	23	2.3
4		27	1.9	18	0.8
		19	0.3	17	0.3
		8.5	1.3	6.9	0.3
		18	0.6	14	1.3
		6.1	0	3.3	0
		12	2.1	7.1	0.5
		5.4	0	2.5	0
		11	0	7.6	0
		7.2	0.3	5.1	0.3
		6.2	0	4.1	0
5		5.9	1.4	2.3	0
6		7.2	1.1	4.6	1.0
	7	3.8	0.5	2.8	0
8		2.3	1.9	1.0	0.3

1
2
3
4
5
6
7
8

NCI CTCAE 3.0

1.3% 1.1%

2 COU-AA- 301

2 COU-AA-301

	+ (N = 791)			+ (N = 394)		
	%	3	4 %	%	3	4 %
AST	63		0.4	53		0
	31		2.1	36		1.5
	28		5.3	20		1.0
ALT	24		7.2	16		5.8
	11		1.4	10		0.8
	6.6		0.1	4.6		0

COU-AA-302

	COU-AA-302	1088		
		AST	/	\$/7 • 18/1
3	COU-AA-302		•	•
				13.8

3 COU-AA-302

		+			+		
		(N = 542)			(N = 540)		
		1	3	4		3	4
		%		%	%		%
2		39	2.2		34	1.7	
		25	0.4		21	1.1	
		8.7	0.6		5.9	0.2	
/ 3		30	2.0		25	2.0	
		6.6	0.4		4.1	0.7	
		23	0.4		19	0.6	
		22	0.9		18	0.9	
		11	0.0		5.0	0.2	
		22	0.2		18	0.0	
		22	3.9		13	3.0	
		17	0.0		14	0.2	
		12	2.4		9.6	0.9	
		14	0.2		11	0.0	
		13	0.0		9.1	0.0	
		5.9	0.0		3.3	0.0	
		13	0.0		8.0	0.0	
		11	0.0		8.1	0.0	
		10.3	1.3		5.6	0.6	
		8.1	0.0		3.7	0.0	

1 NCI CTCAE 3.0

2

3

4 COU-AA- 302 15%
>5%

4	COU-AA-302	>15%		>5%	
		+	(N = 542)	+	(N = 540)
		3	4	3	4
		%	%	%	%
		38	8.7	32	7.4
	¹	57	6.5	51	5.2
	ALT	42	6.1	29	0.7
	AST	37	3.1	29	1.1
		33	0.4	25	0.2
		17	2.8	10	1.7

¹

212082PCR3011 mHSPC
 212082PCB011 1199
 mHSPC AST / \$ / 7 • ULN
 GnRHα
 24
 5 •

5		212082PCR 3011		•5%		•2%	
		1					
		2		N=597		N=602	
/		3-4		3-4		3-4	
		%		%		%	
		37		20		13	
		15		0.0		13	
		20		10		3.7	
ALT		16		5.5		13	
AST		15		4.4		11	
		7.0		1.0		3.7	
		6.7		0.2		4.7	
		7.5		0.3		5.0	
4		6.5		0.0		3.2	
1		GnRHa					
2		CTCAE 4.0					
3							
4							
6						5	
6		212082PCR3011		15%			
		>5%					
6		212082PCR3011		>15%			
		(N=597)		(N=602)			
		1-4		1-4		3-4	
		%		%		%	
		20		4		14	
		30		9.6		6.7	
ALT		46		6.4		45	
						1.3	
						1.3	

	16	0.2	6.2	0.2
6				

5

3 COU-AA -301 ABI -PRO-3001 COU-AA- 302 ABI -PRO-
3002 212082PCB011

6

NYHA III IV COU-AA- 301 ABI -PRO-3001 II-IV
212082PCB011 COU-AA- 302 ABI -PRO-3002

<50%

ADT

GnRHa

2.6% vs 0.9%

1.3%

3-4

5

4

0.2%

3-4

2

1-2

1

3

5

7

0.3%

2

0.1%

3

3

-
-
-
-

• < 1/100,

• < 1/1000

:

QT

/

-
-
-

Child-Pugh C

CYP17

		5 mg		1000 mg	
			4	2	34
		2			1
34			34		
	212082PCB011		5 mg		1000 mg
		10		1	34
20		10		34	
1	34				

QT

302 COU-AA -301 NYHA LVEF <50% NYHA III IV COU-AA-
 212082PC3011 NYHA II IV

2230 1763 0.3% 0.1%
 /

2230 3/4 ALT AST 5xJLN
 6% 3

2230 ALT AST ALT AST

1.1%

ALT AST 3 2 1 1 250mg

1 ALT AST 1 1 2 2 1

3xJLN ALT AST AST ALT AST ALT 5xJLN

AST \$/7" î8/1

" î8/1

AST \$/7• î8/1

/

2

1

C_{max}

$AUC_{0-\infty}$

17

10

223

/

223

/

223

/

				Lapp			-
						4	
	1.18mmol	27mg					
QT							
				33 mCRPC		1	2
	1000mg	1		5mg	2	2	
2 QTc			>20ms				
			QTc	<10ms			
						AUC	•0.03

3

75 75

70%

65

65

27%



CYP3A4

CYP3A4

1000 mg

AUC

600 mg

6

55%

CYP3A4

[]

CYP3A4

CYP2D6

CYP2C8

CYP2D6

AUC

2.9

AUC₂₄

33%

CYP2D6

CYP2D6

1000 mg
M-III M-IV AUC 10%
CYP2C8

CYP2D6
CYP2C8
AUC 46%
CYP2C8

OATP1B1 OATP1B1

QT
QT QT
IA

III

PSA

COU-

AA- 301 COUAA -302 212082PCB011
GnRH α

PSA

COU-AA-301

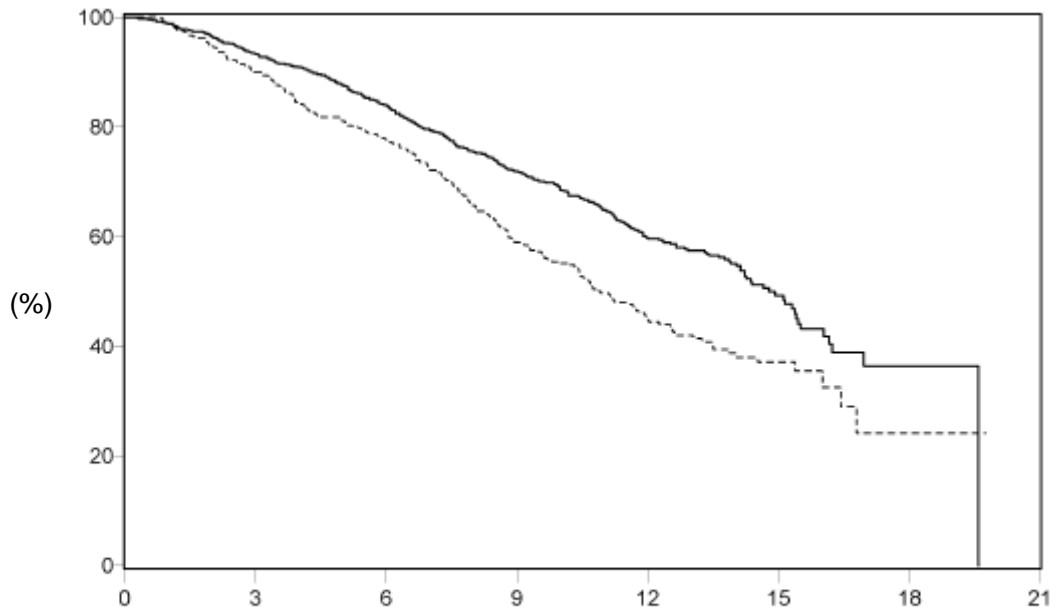
		III		2:1		1195
		1000 mg	1	5 mg	2	N=797
1	5 mg	2	N = 398	25%		
		PSA	/			
39~95	1.6%	89%	93.3%	3.6%	1.7%	69
•	24	70%	45%	90%	30%	
OS	552	97%	7	1	775	7
7					GnRHa	
				+	+	
				(N=797)	(N=398)	
				333 (42%)	219 (55%)	
				14.8 (14.1, 15.4)	10.9 (10.2, 12.0)	
				< 0.0001		
				0.646 (0.543, 0.768)		
				501(63%)	274(69%)	
				15.8(14.8 17.0)	11.2(10.4 13.1)	
				0.740(0.630 0.859)		
^a P		ECOG	0	1		
^b			<1			

1

1

GnRHa

Kaplan Meier



797	736	657	520	282	68	2	0
398	355	306	210	105	30	3	0

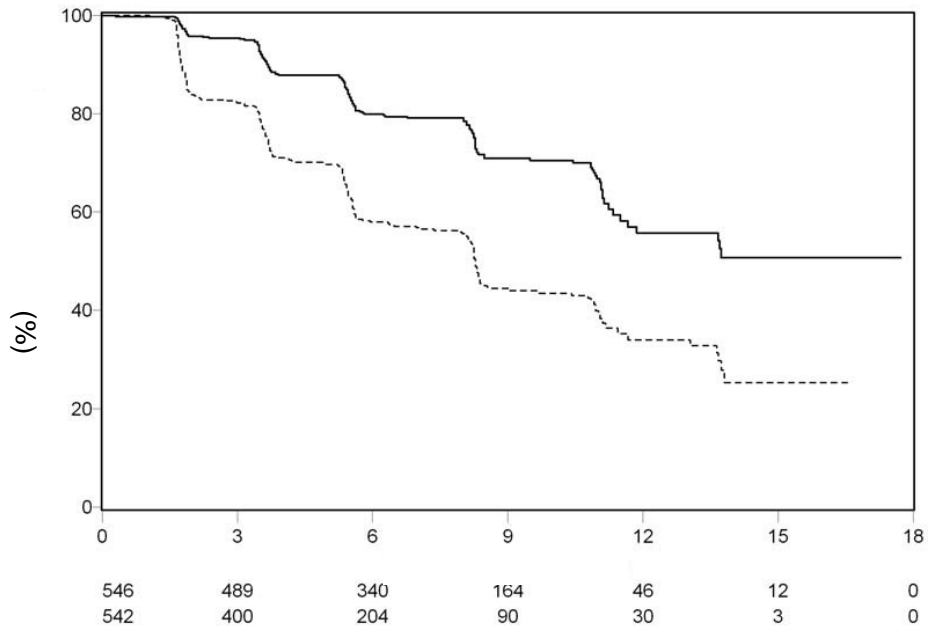
.....

COU-AA-302

		BPI-SF	24	
0-1		2-3		
1088	1:1		1000mg	1
1	n=542		5mg	2
			ECOG	3
				71
				70
520	95.4%	15	2.8%	4
				0.7%
				6

1.1%	76%	ECOG	0	24%	19%
1 50%		31%			rPFS
PSA		ECOG			•
		2[PCWG2]			PCWG2
			RECIST 1.1		rPFS
	rPFS	401			
	150	28%	251	46%	rPFS
	8	2			
8	COU-AA-302				GnRHa
			+	+	
			(N=546)	(N=542)	
	(rPFS)				
			150(28%)	251(46%)	
rPFS()			8.3		
(95% CI)			(11.66 NE)	(8.12 8.54)	
P *				<0.0001	
** (95% CI)				0.425(0.34 0.522)	
NE=					
*P	ECOG	0	1		
**	<1				

Kaplan Meier



OS	IA
rPFS	9 3
607	271 50%
336 62%	47%
HR=0.530 95% CI[0.451 0.623] p<0.0001	rPFS
16.5 8.3	

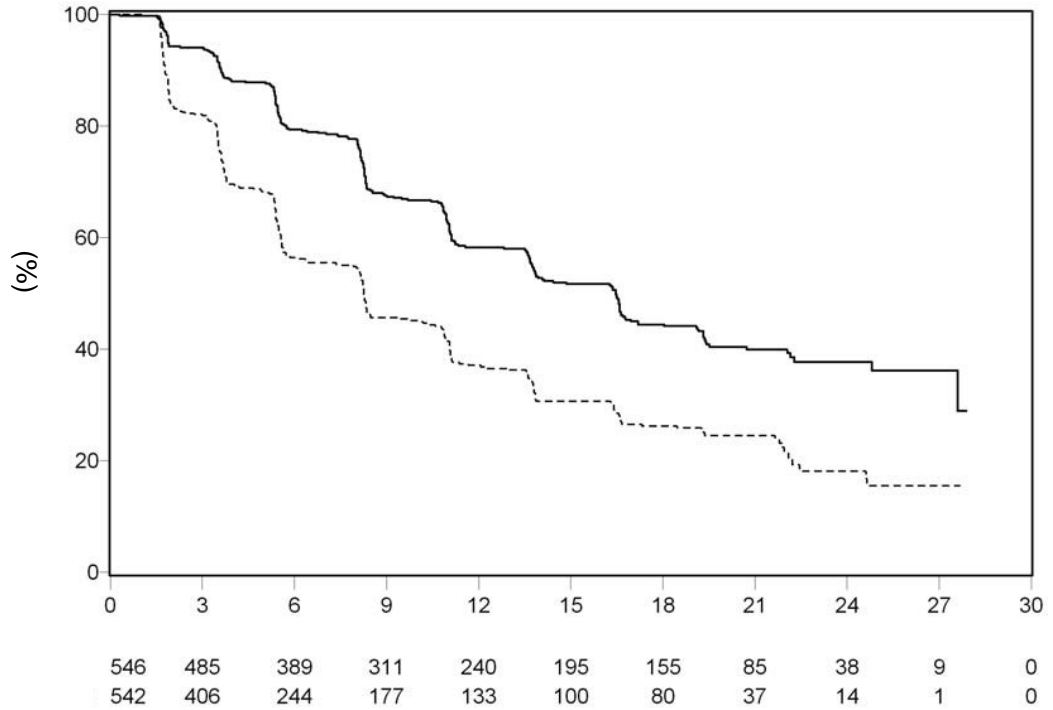
9: COU-AA-302: OS GnRHα -

	+ (N=546)	+ (N=542)
(rPFS)		
rPFS()	271(50%)	336(62%)
(95% CI)	16.5 (13.80 16.79)	8.3 (8.05 9.43)
P *	<0.0001	
**(95% CI)	0.530(0.451 0.623)	

*P ECOG 0 1
 ** <1

3:

GnRHa
Kaplan Meier OS -



333

OS

25% HR=0.752 95% CI [0.606

0.934] p=0.0097

OS

10

IA

741

OS

49

65%

546

354

71%

542

387

19.4% HR=0.806 95% CI [0.697

0.931] p=0.0033

OS

OS

4.4

34.7

30.3

10

4

44%

10: COU-AA-302

GnRHα

	+	+
	(N=546)	(N=542)
(%)	147(27%)	186(34%)
()		27.2
(95% CI)	(NE NE)	(25.95 NE)
P *	0.0097	
** (95% CI)	0.752(0.606, 0.934)	
(%)	354(65%)	387(71%)
()	34.7	30.3
(95% CI)	(32.7 36.8)	(28.7 33.3)
P *	0.0033	
** (95% CI)	0.806(0.697, 0.931)	

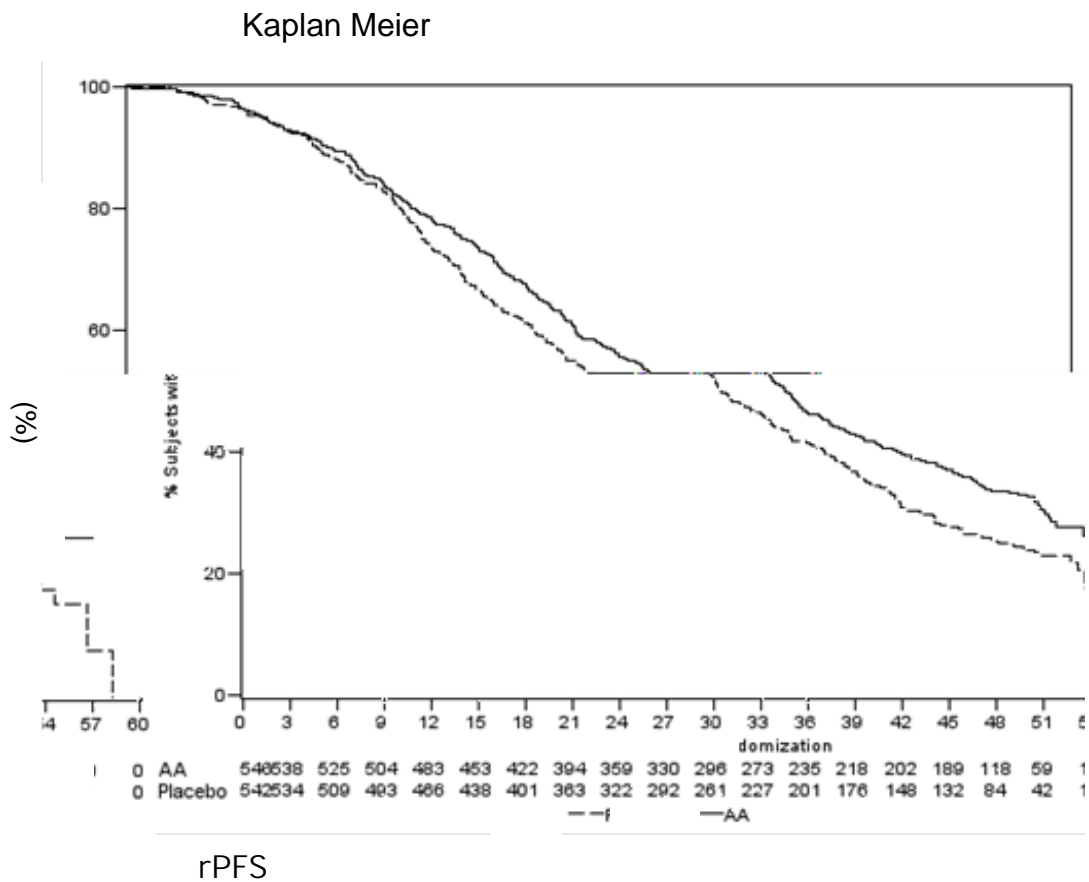
NE=

*P ECOG 0 1

** <1

4:

GnRHα



PCWG2
 11.1
 PSA
 PSA
 p<0.0001

PSA
 5.6
 HR=0.488 95% CI [0.420 0.568]
 HR=0.488
 62% vs. 24% p<0.0001

33.4
 23.4
 HR=0.721 95% CI [0.614 0.846]
 p<0.0001

25.2
 16.8
 HR=0.580 95% CI [0.487 0.691]
 p<0.0001

ECOG
 ECOG
 [0.714 0.943] p=0.0053
 12.3
 10.9
 HR=0.821 95% CI

RECIST
 • FP
 16% p<0.0001
 36%
 18%
 p=0.0490
 26.7
 18.4

FACT -P
 FACT -P
 22% p=0.0028
 12.7 8.3

212082PCR3011
 212082PCB011 1:1
 1000 mg 1
 N=602
 ADT
 1

mHSPC
 5 mg 1
 mHSPC
 GnRHα
 1

1199
 mHSPC
 N=597
 3

Gleason •

3

ECOG

3

67

0	69%	2.5%	21%	8.1%	ECOG
	76%	1	42%	2	3.5%
	24				0~1
50%	2~3		23%	•	28%
					93.4%
		3.8%	3.8%		93.2%
	GnRHa	75.0%		12.0%	
62.1%		1.4%			

406

OS

21%

41

CRPC OS

618

52

11

5

29% 45%

CRPC

OS

11 212082PCR301/LATITUDE

	N=597	(N=602)
1		
%	169 28%	237 39%
95% CI	NE(NE, NE)	34.7(33.1, NE)
p ²	<0.0001	
(95% CI) ³	0.621 (0.50, 0.756)	
%	275 (46%)	343 (57%)
95% CI	53.3 (48.2, NE)	36.5 (33.5, 40.0)
(95% CI) ³	0.66 (0.56, 0.78)	

NE=

1

2 p

3

ECOG

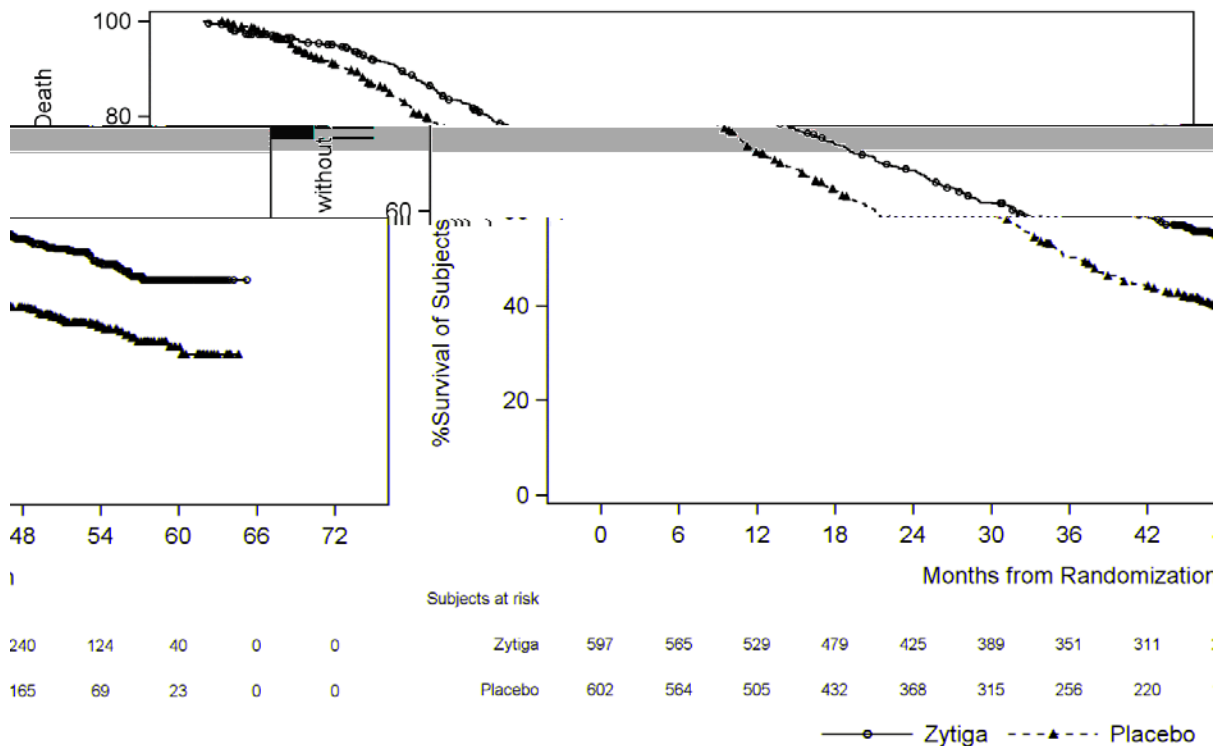
0/1 vs2

vs

1

5

Kaplan-Meier
212082PCR301/LATITUDE



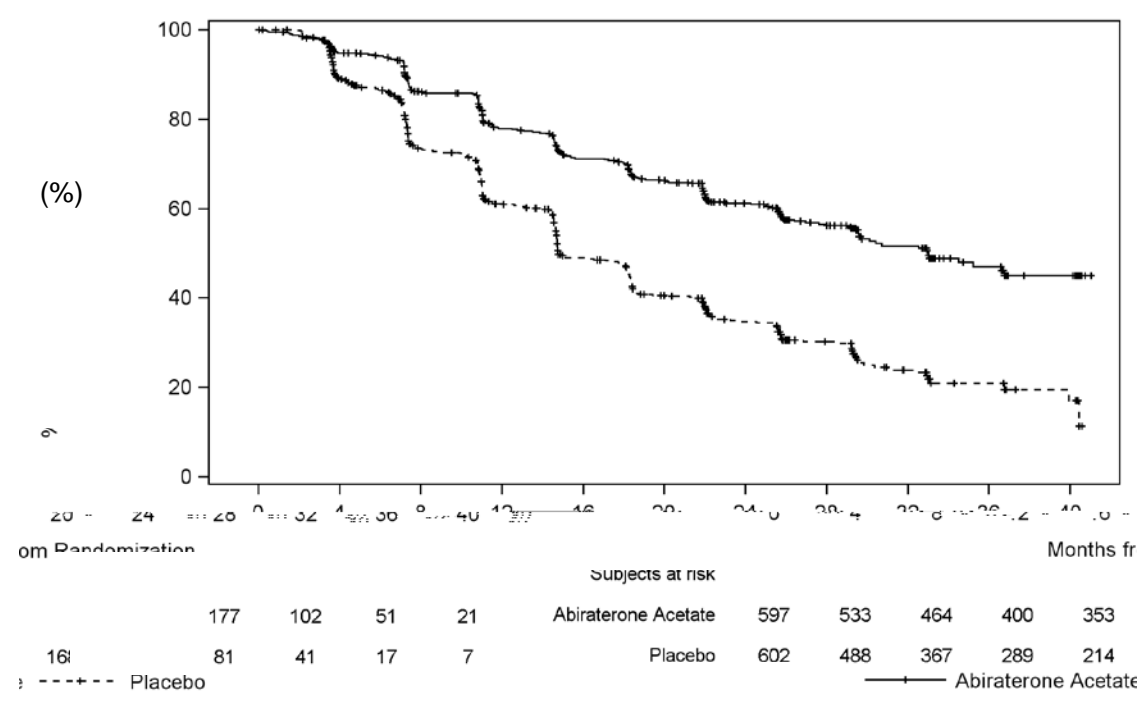
rPFS 593 239
 40.0% 354 58.8%
 rPFS 12 6
 12 212082PCR 3011

	(N=597)	(N=602)
rPFS	239 40.0%	354 58.8%
95% CI	33.0 29.57, NE	14.8 (14.69 18.27)
p ¹	<0.0001	
² (95% CI)	0.466 (0.39 0.550)	

NE=

¹ p ECOG 0/1 2 ADT
² <1

6 212082PCR3011 Kaplan-Meier



rPFS
 24% HR=0.759; 95% CI:0.601, 0.960; p=0.0208
 43.0 31.3
 PSA PCWG2 PSA

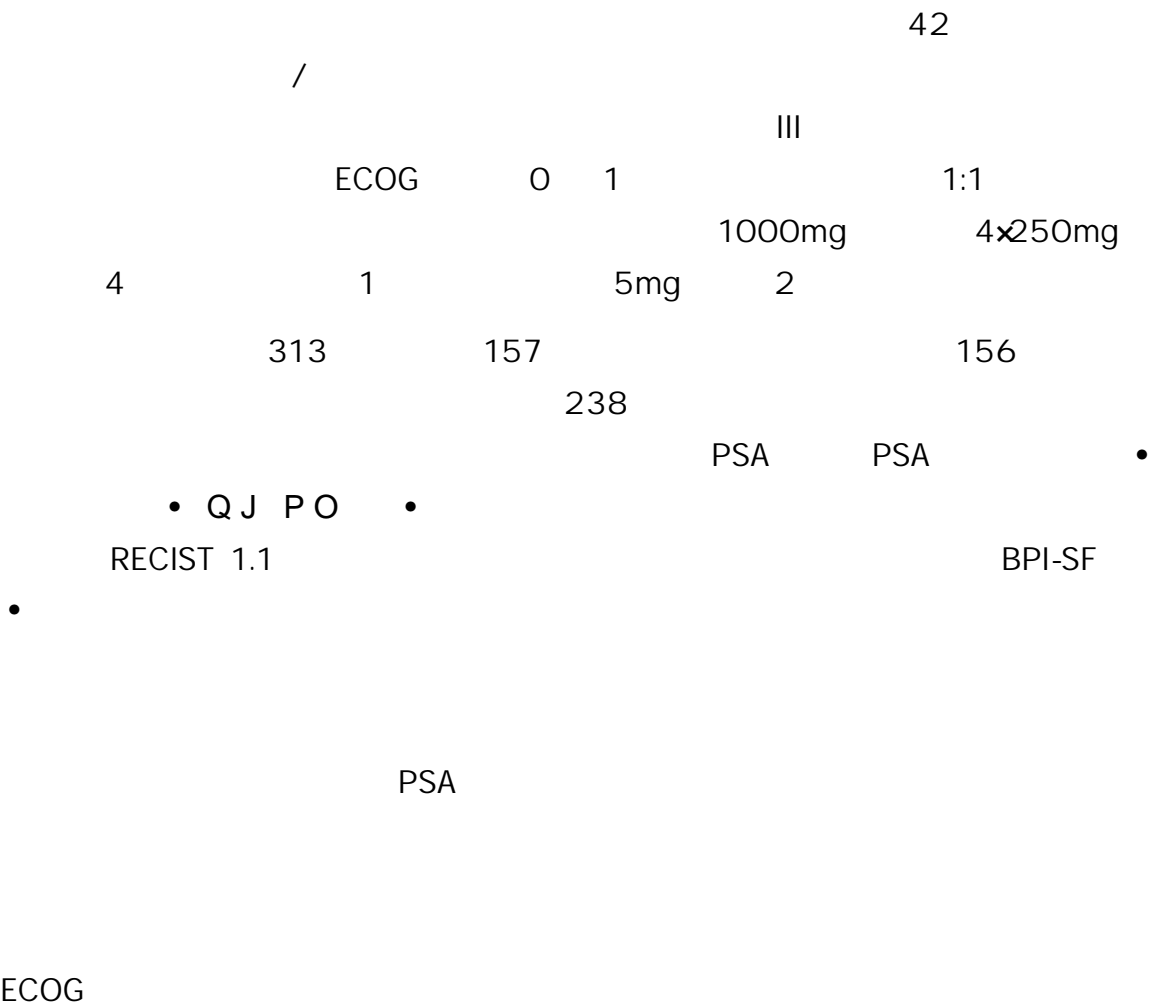
33.3 7.4 HR=0.310; 95% CI:0.266, 0.363; p 0.0001

29.6 AA-P
HR=0.431; 95% CI:0.356, 0.522; p 0.0001

57.6 HR=0.508; 95% CI:0.412, 0.627, p 0.0001

47.4 16.6 HR=0.721; 95% CI:0.607, 0.857; p=0.0002

ABI-PRO-3002



48~90
 HR=0.418 p<0.0001
 PSA 44% HR=0.563, p=0.0173
 PSA 58% 71

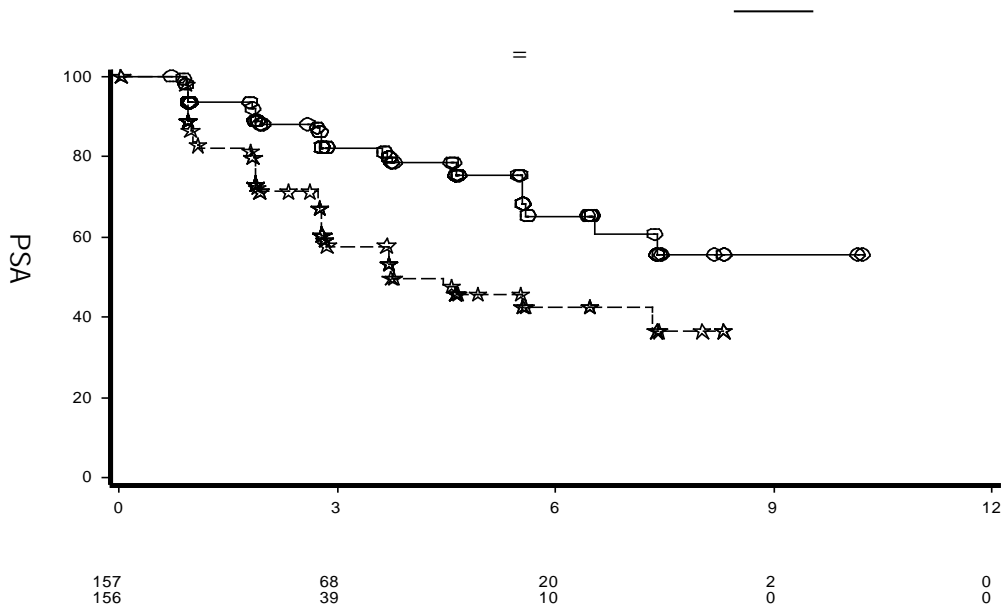
13	ABI-PRO-3002	PSA		
	AA	AA	AA	AA
a	(N=119)	(N=119)	(N=157)	(N=156)
	119	119	157	156
	30 (25.2)	43(36.1)	34 (21.7)	60 (38.5)
	89 (74.8)	76 (63.9)	123 (78.3)	96 (61.5)
p		0.0173		<0.0001
b	(95% CI)	0.563 (0.349; 0.90)		0.418 (0.271; 0.646)

a Kaplan-Meier

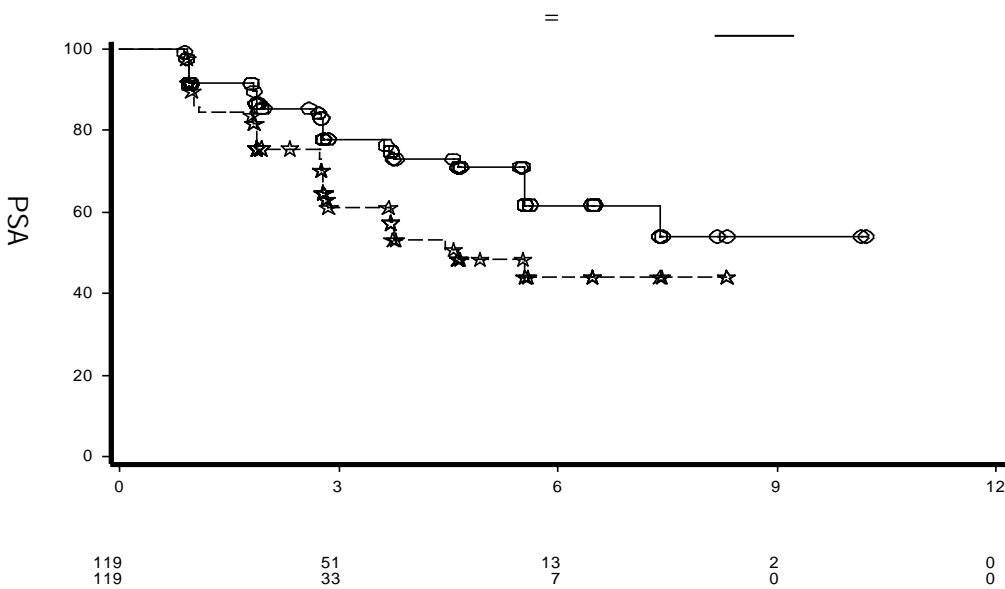
b p () ECOG

c <1

7 ABI-PRO-3002 PSA Kaplan-Meier ()



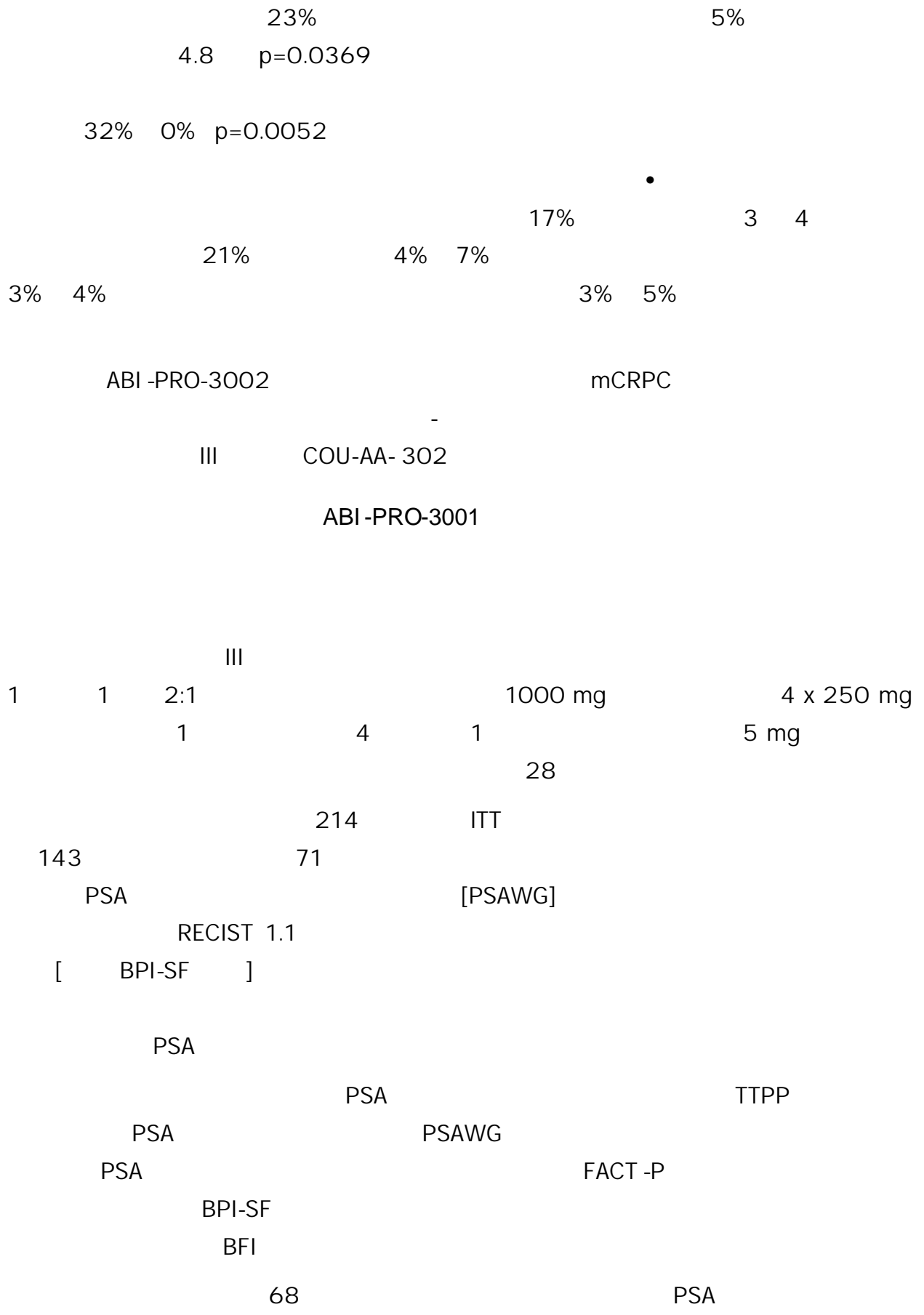
8: ABI-PRO-3002 PSA Kaplan-Meier ()



PSA 67% p<0.0001 31%

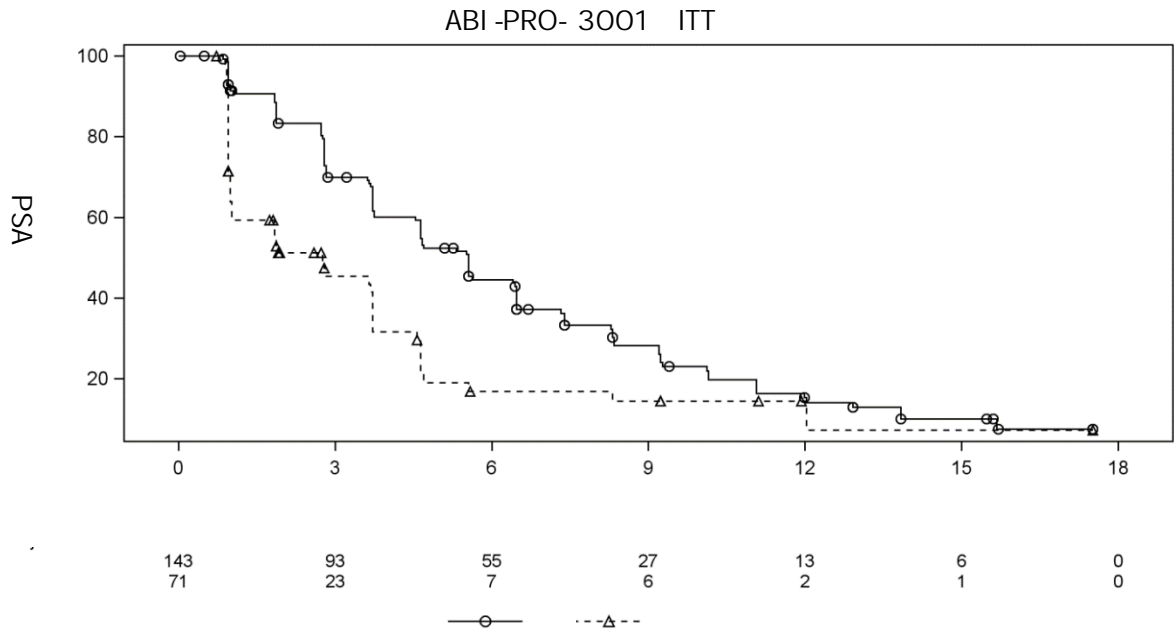
PSA 67% 37%

p<0.0001 CR+PR



		AA (N=143)		(N=71)	
PSA		143	71		
		109(76.2%)	52(73.2%)		
		34(23.8%)	19(26.8%)		
PSA	() ^a				
25	(95% CI)	85.00(83.00, 112.00)	29.00(29.00, 30.00)		
	(95% CI)	169.00(141.00, 197.00)	84.00(31.00, 113.00)		
75	(95% CI)	281.00(252.00, 337.00)	141.00(113.00, 366.00)		
		(1.0+, 533.0+)	(22.0+, 533.0+)		
3	(95% CI)	0.699(0.614, 0.769)	0.454(0.329, 0.572)		
6	(95% CI)	0.446(0.360, 0.528)	0.169(0.082, 0.283)		
12	(95%CI)	0.153(0.092, 0.230)	0.145(0.064, 0.257)		
p	^b	0.0001			
	(95% CI)	0.506(0.356, 0.719)			
+ =		NE=			
a	PSAWG PSA	PSA	PSA	PSA	PSA
		PSA			
b	p				
c		<1	AA		

9: PSAWG PSA Kaplan-Meier



mCRPC
 TTPP PSA OS
 HR=0.604 [0.356, 1.026] HR COU-AA-301 HR=0.646
 [0.543, 0.768] PSA 49.7%
 14.1% =3.525 p<0.0001 37.1%
 50.7%
 50% HR=0.496 p=0.0014

4
 23%
 28.2% 14.0% 19.7% 32.2% 3 4
 7.0% 9.9% 6.3% 12.7%

ABI-PRO-3001

mCRPC

III COU-AA-301

212082PCR3011

212082PCB011

137

69

68

80

17.- /C17,20- CYP17

CYP17 1 17.-
17.- 2 C17,20

CYP17

GnRH α

PSA

13 26 13 39
AUC

• P J N J AUC 26

39

AUC 2

: Ames

mg/kg/ • 13 26 39 / •
P J N J/

AUC 0.6

30mg/kg/

4

30mg/kg/

16 7

30mg/kg/
300mg/kg/

30mg/kg/ 1000mg/ 0.3

4

30 100mg/kg/ AUC 0.03 0.1 0.3 10

• P J N J /

• P J N J

• P J N J

100mg/kg/

5 15

50 mg/kg/ 15 50 150mg/kg/ 0.8

Tg.rasH2 6

mCRPC

>99%

<0.2 ng/ml

mCRPC 2

AUC 1000 mg 2

mCRPC 1000 mg 1 C_{max} AUC - SD

226-178 ng/l 993-630 ng Åh/ml 250 1000 mg

1000mg 2000mg AUC

8%

300 C_{max} AUC_{0-∞} 7 5 7%

57% 825 17 10

2 1

.-1 >99%

- SD 19669-13358 L P- P-

¹⁴C-

SULT2A1 43% CYP3A4 SULT2A1 CYP N- N-

mCRPC ¹⁴C- - SD 12-5

88% 5% 55% 22%

n = 8 n = 8 Child-Pugh A B

8 1000 mg

1.1 3.6

18 19

8 Child-PughC 8

AUC 7

2

n=8 n=8

1000 mg 96 1

1000 mg

15~30°C

120 /

24

JX20130141

H20150264

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Patheon Inc.

2100 Syntex Court, Mississauga, Ontario, L5N 7K9

19

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