



UNIVERSITÀ
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FIRENZE

XXV CONGRESSO NAZIONALE

AIRO 2015

PALACONGRESSI - Rimini, 7-10 novembre

Post docetaxel Abiraterone in patients with metastatic castration-resistant prostate cancer: survival and prognostic factors.

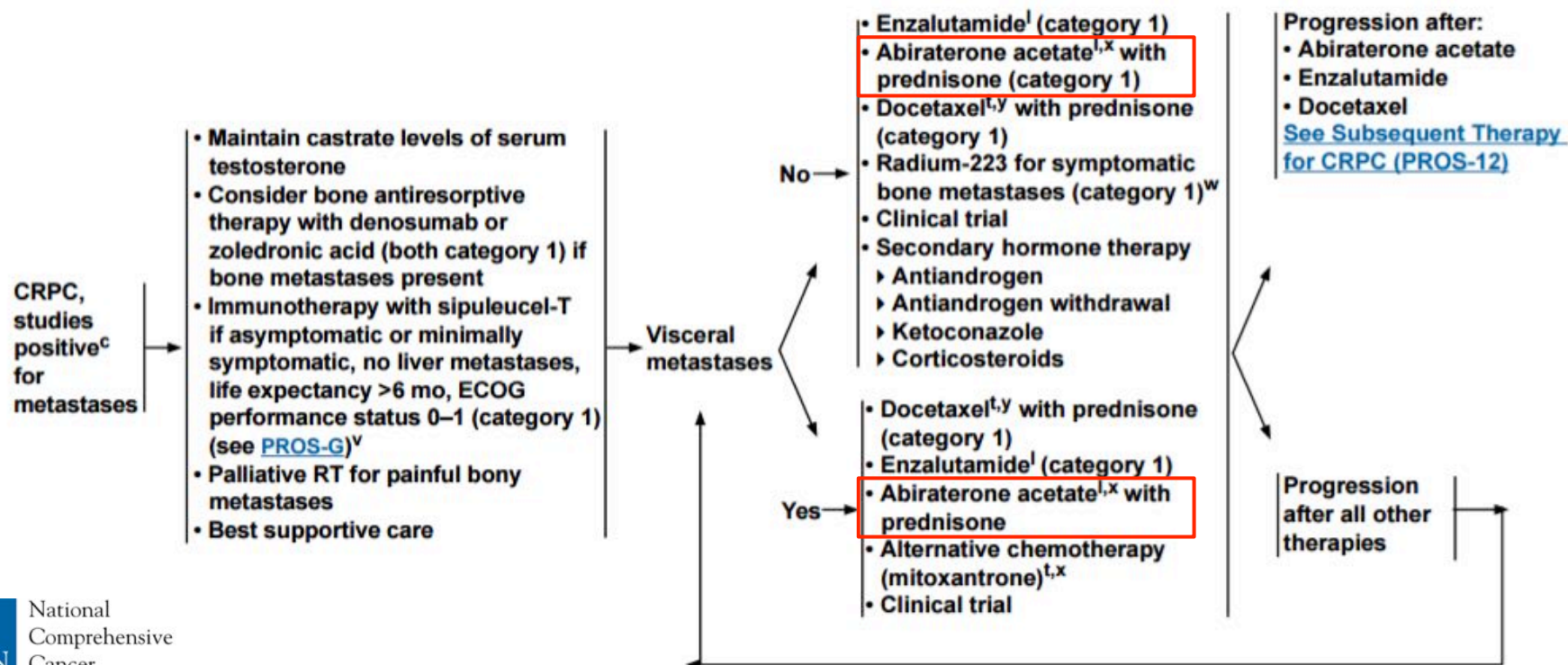
G. Francolini, C. Becherini, S. Cappelli, D. Scartoni, A. Turkaj, L. Di Brina, B. Detti, V. Baldazzi, L. Livi

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BACKGROUND

ADVANCED DISEASE: FIRST-LINE SYSTEMIC THERAPY FOR CRPC





BACKGROUND

ADVANCED DISEASE: SUBSEQUENT SYSTEMIC THERAPY FOR CRPC

No visceral metastases	<p>Prior therapy enzalutamide/abiraterone:</p> <ul style="list-style-type: none">• Docetaxel with prednisone (category 1)[†]• Abiraterone acetate¹ or enzalutamide• Radium-223 (category 1) if bone-predominant disease• Sipuleucel-T if asymptomatic or minimally symptomatic, no liver metastases, life expectancy >6 mo, ECOG 0–1• Clinical trial• Other secondary hormone therapy<ul style="list-style-type: none">› Antiandrogen› Antiandrogen withdrawal› Ketoconazole› Corticosteroids› DES or other estrogen• Best supportive care	<p>Prior therapy docetaxel:</p> <ul style="list-style-type: none">• Enzalutamide (category 1)• Abiraterone acetate¹ with prednisone (category 1)• Radium-223 (category 1) if bone-predominant disease• Cabazitaxel with prednisone (category 1)[†]• Sipuleucel-T if asymptomatic or minimally symptomatic, no liver metastases, life expectancy >6 mo, ECOG 0–1• Clinical trial• Docetaxel rechallenge[†]• Alternative chemotherapy (mitoxantrone)[†]• Other secondary hormone therapy<ul style="list-style-type: none">› Antiandrogen› Antiandrogen withdrawal› Ketoconazole› Corticosteroids› DES or other estrogen• Best supportive care
	Visceral metastases	<p>Prior therapy enzalutamide/abiraterone:</p> <ul style="list-style-type: none">• Docetaxel with prednisone (category 1)[†]• Clinical trial• Abiraterone acetate¹ or enzalutamide• Other secondary hormone therapy<ul style="list-style-type: none">› Antiandrogen› Antiandrogen withdrawal› Ketoconazole› Corticosteroids› DES or other estrogen• Best supportive care



PATIENTS

- **PSA progression:** sequence of rising values at a minimum of 1-week intervals, 2.0 ng/mL minimum starting value (PCWG2 Criteria)
- Serum testosterone less than 50 ng/dL (< 1.7 nmol/L)
- **Radiologic progression** with or without PSA increase

Sher et al, JCO, 2008



TREATMENT

Total number: 40 Patients with mCRPC previous treated with docetaxel

Treatment schedule: Abiraterone 1000 mg+ Prednisone 10 mg+LH RH analogue (agonist or antagonist)

Median Follow Up: 12 months (range 4-29.5)

Median time of duration of AA therapy: Therapy was 8.33 months (range 1-20)



POPULATION FEATURES

Metastases	n (%)
LN	11 (27.5)
Only visceral	2 (5)
LN + visceral	1 (2.5)
Bones	15(37,5)
LN+bones	10 (25)
LN+visceral+bones	1 (2.5)

Variable	n (%)
<u>Response to docetaxel*</u>	
CR	-
PR	2 (5)
SD	19 (47.5)
PD	19 (47.5)
<u>PSA at start abirat.</u>	
<10	16 (40)
10-20	3 (7.5)
>20	21 (52.5)
<u>HB at start abirat.</u>	
<10	4 (10)
>10	36 (90)
<u>Concomit. HT</u>	
LHRH agonist	15 (37.5)
LHRH antagonist	25 (62.5)



EVALUATIONS/CONCOMITANT TREATMENTS

- **Complete blood test and PSA** were collected at baseline and then monthly.
- **Radiological evaluations** were performed at baseline and then every three months.
- Performance status was evaluated according to ECOG score at baseline and then monthly.
- Best supportive care therapy was allowed during the treatment, including palliative EBRT, Bisphosphonates or Denosumab and opioid use.

15% of patients had concomitant palliative radiotherapy during AA treatment, without increase of toxicity



RESULTS

Variable	PD	%PFS	p
Docetaxel response*			
CR	-	-	
PR	1	0	
SD	11	0	
PD	9	16.1	0.031
PSA at start abirat.			
<10	6	18.2	
10-20	0	100	
>20	16	0	0.014
HB at start abirat.			
<10	3	0	
>10	19	9.1	0.008
PSA reduction			
>50%	11	10.2	
<50%	11	8.8	0.012
Concomit. HT			
LHRH agonist	5	35.0	
LHRH antagonist	17	0	0.17

- **AE causing discontinuation/ interruption: 12.5%**
- **CV AE: 5%**
- **No G2-G3 hypokalaemia/ fluid retention**
- **Median baseline PSA: 104.3 ng/ml**



RESULTS

UNIVARIATE

MULTIVARIATE

variable	HR	(95%CI)	p		HR	(95%CI)	p
HB at start abirat. <10 >10	1 0.20	(0.05-0.74)	0.016		1 0.23	(0.06-0.92)	0.038
PSA reduction >50% <50%	1 2.88	(1.21-6.87)	0.017		1 5.13	(1.80-14.64)	0.002



RESULTS

Metastases	%PFS	p
LN	0	0.90
Only visceral	0	
LN + visceral	100	
Bones	14.1	
LN+bones	14.6	
LN+visceral +bones	0	



DISCUSSION

	n patients	PSA reduction >50%	BiochemicalTTP (months)	RadiologicalTTP (months)
Florence	40	55%	9.81	9.47
Fizazi, Lancet 2012	797	29.5%	8.5	5.6
Clayton, can Urol Assoc, 2014	187	36%	3.5	na
Danila, JCO, 2010	58	36%	5.6	na
Reid, JCO, 2010	47	51%	5.6	na



DISCUSSION

Abiraterone acetate for treatment of metastatic castration-resistant prostate cancer: final overall survival analysis of the COU-AA-301 randomised, double-blind, placebo-controlled phase 3 study

Karim Fizazi, Howard I Scher, Arturo Molina, Christopher J Logothetis, Kim N Chi, Robert J Jones, John N Staffurth, Scott North, Nicholas J Vogelzang, Fred Saad, Paul Mainwaring, Stephen Harland, Oscar B Goodman Jr, Cora N Sternberg, Jin Hui Li, Thian Kheoh, Christopher M Haqq, Johann S de Bono, for the COU-AA-301 Investigators*

Lancet Oncol 2012; 13: 983-92

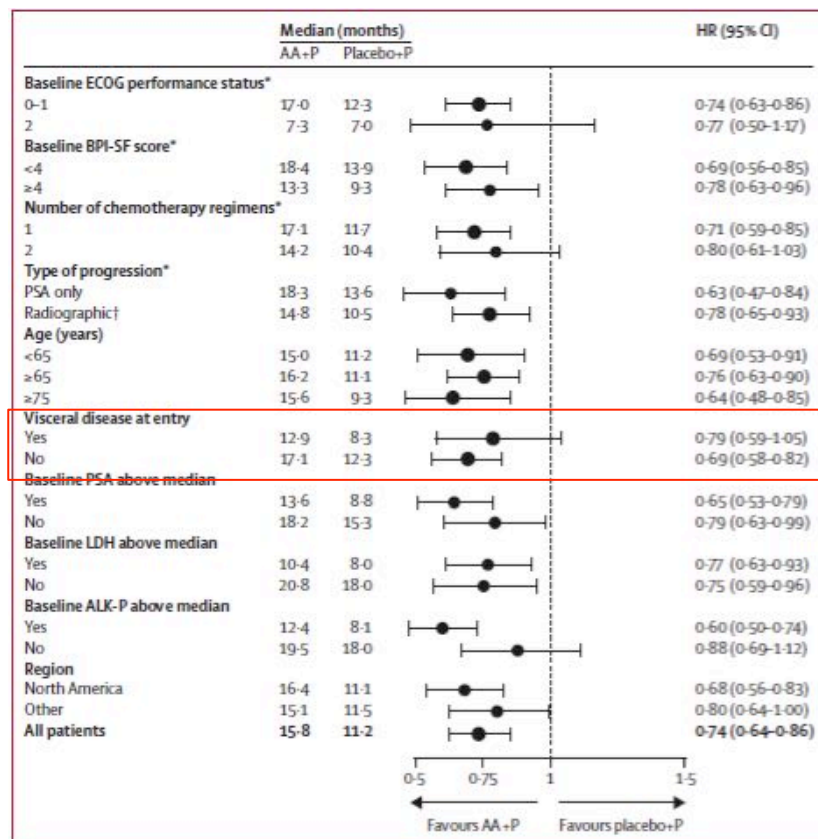


Figure 3: Overall survival by subgroup analyses



Conclusion

- No correlation between **metastatic sites** (bone, lymph nodes, viscera) and **patients outcome**.
- Abiraterone should be administered to **low baseline PSA patients**
- Association between **Abiraterone and LH RH antagonists** could be an interesting issue on order to **reduce cardiovascular morbidity**
- Association between RT and Abiraterone is **safe**

**GRAZIE
PER L'ATTENZIONE**

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