Prospective, non-interventional study on the influence of adherence measures on abiraterone therapy of patients with metastatic, castration-resistant prostate carcinoma (IMPACT)

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Abstract : P081

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Abiraterone is an oral androgen biosynthesis inhibitor approved for patients with metastatic castration resistant prostate carcinoma. It has to be taken in combination with prednisone/

Abiraterone has demonstrated efficacy, including significant improvement in pain relief, fatigue as well as PFS and overall survival [1, 2, 3], with only mild to moderate adverse

Adherence: the extent to which a person's behavior corresponds with agreed recommendations from a health care provider (WHO)

Problem of oral anti-cancer therapy: adherence steadily decreases over time although it is important for a long term success

Objective and Study Design

Evaluate the influence of adherence measures on abiraterone therapy of mCRPC patients under routine conditions in comparison to a group without adherence measures



Methods

Primary endpoint of the study was the rate of therapy discontinuation due to other reasons than disease progression or start of another therapy

* other reasons than disease progression or start of another therapy

Month 6

Adherence measures of Janssen and IFOM: educational video, diary, dose card and a telephone reminder service

The patient reported adherence was assessed by using the Morisky Medication Adherence Scale (MMAS-4).

Data on the Functional Assessment of Prostate Cancer Therapy (FACT-P) was assessed. Data on the Brief Fatigue Inventory (BFI) questions was assessed as additional evaluation (implemented per Amendment 2, September 2015)

The minimal important differences (MID) of BFI were calculated for the whole patient population and for pre- and post-chemo patients.

Correlation between BFI and FACT-P was examined

Statistical analysis was done by means of descriptive and exploratory statistical methods.

Results (2nd interim analysis)

The intent-to-treat analysis set of the 2nd interim analysis (cutoff date: 17th June 2015) comprised 277 patients, with 150 patients assigned to arm A + (54.2%) and 127 patients assigned to arm A - (45.8%).

Rate of therapy discontinuation

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A+ A- A+ A- A+ A+ A- A+ A- A+ pre-chemo post-chemo pre-chemo post-chemo n=150 n=127 n=108 n=91 n=42 n=36 n=150 n=127 n=108 n=91 n=42 n=36

Adherence measures had no impact on permanent therapy discontinuation.

Therapy discontinuation rates were low, and comparable for pre- and post-chemo patients.

Morisky Medication Adherence Scale (MMAS-4)

n=127

Adherence measures seem to support therapy adherence as reported by patients (PRO).

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Germany; Results (2nd interim analysis and additional RFI evaluation)

п	rtesults (2110 litteriili alialysis	and additi	Onai Di	Cvalua	LIOII)	
	Prostate-specific antigen (PSA)		A+		Α-	
	PSA (Median)		mean (SD)	median	mean (SD)	median
		Baseline n=130 n=118	204,9 (± 312,1)	65,2	232,1 (±518,2)	61,4
		Month 3 n=78 n=87	108,4 (±271,9)	17,6	256,5 (±801,5)	13,0
	PSA values decreased over time.	Month 6 n=84 n=78	138,0 (±380,0)	17,5	112,1 (±467,6)	8,9
•	FOA values decreased over time.	were com	parable lui	DOIN SIDUY	аппъ.	

Functional Assessment of Prostate Cancer Therapy (FACT-P)

	A+	Α-		5 categories: physical, social, emotional
	mean (SD)	mean (SD)		functional and additional
Baseline n = 136 n = 120	105,9 (±24,4)	105,8 (±23,2)	•	FACT-P results were comparable for both study arms
Month 3 n= 101 n = 74	112,4 (±22,8)	112,3 (±20,1)	*	Overall, FACT-P results slightly improved ove time (higher quality of life).
Month 6	110,4	112,1		time (nigher quality of life).
n = 78 n =	(±24.3)	(±23.6)		
Brief Fatig	ue Invento	ry (BFI)		

Additional evaluation

The BFI patient collective differed from the ITT set and contained 188 patients.

3 questions about fatigue intensity and 6 questions about fatigue interference.

	BFI (mean	and SD)				
	Intensity (n = 85)	Interference (n = 87)	Total (n = 87)	Analysis of BFI was not done for the two study arms due to low number of		
Baseline	3,73 (±2,92)	2,20 (±2,16)	2,40 (±2,07)	total cases at the time of evaluation.		
Month 3	3,25 (±2,74)	1,96 (±2,08)	2,15 (±1,98) 4	Baseline BFI values were not very		
Difference	-0,48 (±2,30)	-0,24 (±1,83)	-0,25 (±1,69)	high		
BFI - Minimal Important Difference:						
- REL(MID-total)						



- Pre-chemo patients showed higher progression than post-chemo patients.

Month3: Fatigue (BFI) vs. Quality of Life (FACT-P)

Correlation of BEI and EACT-P the lower the BFI (fatigue), the higher the FACT-P (quality of life)

Pearson Correlation: -0.70

Conclusions

Abiraterone Therapy

Low therapy discontinuation rates after 3 and 6 months

Improvement of PSA values

Improvement of quality of life (FACT-P) Improvement of fatigue (BFI, intensity and interference)

Improvement of fatigue (BFI) correlates with an improvement of quality of life (FACT-P).

Adherence measures:

Adherence program seems to have no impact on discontinuation rates

Adherence program seems to improve the patient-reported adherence (MMAS-4).

Acknowledgement

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References

[1] DeBono et al. N Engl J Med 2011; 364(21): 1995-2005. [2] Ryan et al. Lancet Oncol 2015, 16 (2): 152-160. [3] Fizzazi et al., Lancet Oncol 2012, 13(10): 983-992. [4] Fizzazi et al. European Urology 2016, 70(3): 438-444.