



THE EFFICACY AND SAFETY OF SORAFENIB TREATMENT ON METASTATIC DIFFERENTIATED THYROID CARCINOMAS

Pınar SISMAN¹, Mustafa SUVERAN², Ahmet Bilgehan SAHİN², Soner CANDER¹,
Ozen OZ GUL¹, Erdinc ERTURK¹, Canan ERSOY¹

Uludag University, Faculty of Medicine, Department of Endocrinology and Metabolism, Bursa, Turkey¹
Uludag University, Faculty of Medicine, Department of Internal Medicine, Bursa, Turkey²

INTRODUCTION

Differentiated thyroid carcinomas (DTC) are originated from thyroid follicular epithelial cells and comprises %90 of all thyroid carcinomas. Researches indicate that sorafenib is more efficacious than other chemotherapeutic agents on metastatic iodide refractory DTCs.

MATERIAL AND METHODS

In our center, between 2013 and 2015, sorafenib was applied to 6 patients who had iodide refractory metastatic DTC. Five of the patients were female. The mean age at diagnosis was 68.6. Minimum 150, maximum 800 mCi RAI treatment were administered to the patients were applied after total thyroidectomy.

RESULTS

After sorafenib treatment, on the follow-up skin rashes were the most frequent adverse effect and followed by hypertension, high ventricular rate atrial fibrillation and esophagitis. Skin lesions were mild and occurred on the first month of the treatment, after dose reduction symptoms resolved by 1 month. One patient had died of pericardial effusion (Table1). The response rates were evaluated according to "response evaluation criteria in solid tumors RECIST". Progressive disease, stable disease, and partial response were observed in 3 patients, one patient and one patient, respectively. One patient has not been assessed by imaging.

DISCUSSION

Literature indicates that the adverse effects occur at the early phase, after reducing the dose or quitting, symptoms resolve and by the time patients' drug tolerance increase. Younger patients' drug compliance is higher. In our patients, adverse effects occurred in the first month consistent with literature. After dose reduction and treatment of the adverse effects, all of the symptoms resolved. However, low drug tolerance was observed in our patients and attributed to the advanced ages of the patients.

CONCLUSION

The efficacy of sorafenib is higher than the conventional chemotherapeutics, but management of side effects is crucial. Therefore, the patients should be informed about side effects before treatment and it should be used in experienced centers.

Table1: Side effects after sorafenib treatment

	800mg/day		600mg/day		400mg/day	
	Time	Side effects	Time	Side effects	Time	Side effects
Case 1	20 days	Skin lesions	-	-	5 months	HT and AF
Case 2	7 days	Skin lesions	2 months	HT Skin lesions	5 days	Skin lesions
Case 3	4 months	None	-	-	-	-
Case 4	10 days	Skin lesions	-	-	5 months	None
Case 5	1 month	Esophagitis	-	-	-	-
Case 6	3 monyhs	None	-	-	-	-

