

# 화학예방

## Chemoprevention

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Jun Cheon, M.D.

Department of Urology

Korea University College of Medicine & Hospital

E - mail : jcheon@kumc.or.kr

### Abstract

Despite advance in detection and management of prostate cancer, this disease remains a major cause of morbidity and mortality in men. Increasing attention has focused on the role of chemoprevention for prostate cancer, ie the administration of agents that inhibit one or more steps in the natural history of prostate carcinogenesis. Chemoprevention of prostate cancer is currently being tested in a wide range of clinical trials, and have focused on the role of dietary factors, vitamins and trace elements in prostate cancer. These studies have the potential to fundamentally alter the current approach to prostate cancer management. The current status of clinical trials investigating the use of interventions designed to reduce the risk of prostate cancer is reviewed.

**Keywords :** Prostate cancer; Chemoprevention

: ;

10 ~ 20

가

가

가

가

가

가

가

가

가

	(1).	(Gleason score)	가	가
		(2).		
가	,	1, 2 5 -		dutasteride가
			50 ~ 75	PSA
.		가		
			8,000	
		4		
		(Reduction by Dutasteride in Prostate Cancer, REDUCE)가		.
,		2.	(Phytoestrogen)	
	가	Isoflavonoids(genistein, daidzein), flavonoids, lig-		
		nans	(phytoestrogens,	iso-
1. 5 -	(5 - reductase Inhibitor)	flavones)		가
5 -				가
가			가	.
	5 -		isoflavone	
가	1990	5 -		(3)
	, 2 5 -			
finasteride	1, 2 5 -	가	,	
dutasteride		가		가
.			(4).	PSA 가
		4 ng/ml		
	finas-		가	
teride	Prostate Cancer Prevential Trial	,		(prostatatic intraepi-
(PCPT) 55	prostatic specific	thelial neoplasia, PIN)		
antigen(PSA)	가 18,882	( E, )		
	가 , 7			가

(Antioxidant) 가가

가

(oxidative . , 가

stress) DNA PSA 가 4 ng/ml

가 (7),

(oxiadtive free radical) ,

가 p53 DNA

가 E

가 .

E

1. - , (Lycopene) ,

- E - -

5~8

가 (Alpha - Tocopherol

가 (5) Beta - Carotene Cancer Prevention Study, ATBC)

E

E

32,400

12

(gap junction) 3 Selenium and Vitamin E Cancer Pre-

(6). vention Trial(SELECT) (8).

가 가 COX(Cyclooxygenase) - 2

18~45 .

COX - 2 mRNA

가 3 , COX - 2

bcl - 2

2. (Selenium) E

COX - 2

444

가

Polyamine , A , phenylbutyrate

2.

GM - CSF (granulocyte-macrophage colony - stimulating factor) secreting gene transduced cancer vaccine complementary DNA microarray (chemoprevention defence enzyme)

가

(health benefits)

가

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