EICOSAPENTANOIC ACID (EPA),

WITH ARGININE, COLLAGEN & A - C - E VITAMINS, CAN PLAY ROLE IN PREVENTING SKIN TOXICITY IN BREAST CANCER PATIENT TREATED WITH RADIOTHERAPY

D.Barzaghi; O.A. Cristiano; C.Iervolino; A.Daniele; R. Di Benedetto; G.Ciaglia; M.Elmo; C.Guida Department of Radiation Oncology. A.O.R.N. "S.G.Moscati", Avellino.

Aims

To test the possible role of an patented nutraceutical product with eicosapentanoic acid (EPA), Collagen, Arginine and vitamins (A, C and E vitamins) -W-care-, in the cosmetic outcome of the breast cancer patients

treated with radiotherapy

reated with radiotherapy					
CHARACTERISTIC PATIENTS	N° 61	(%)			
Age					
<50 years	17	28			
>50 years	44	72			
Pathological tumor stage					
≥ p T1c	38	63			
≤ p T2	23	37			
Pathological nodal stage					
p N0	41	67			
p N1	18	30			
≤ p N2	2	3			
Histology					
Ductal carcinoma	51	84			
Lobular carcinoma	10	16			
Previous chemotherapy n° 22					
Anthracycline plus	17	28			
taxanes based					
Taxanes-based	5	8			
Concomitant hormonotherapy: n°52 (86%)					
Tamoxifene-based	40	65			
Aromatasis inhibitor-	12	21			
based					

data group comparison					
RT doses &	2017:	2016			
volumes	n° 57 p	:n°129			
225\250 sib x 20 fx Breast & T.B.	37	35			
200 x 25 fx					
T.W. & N	9	56			
200 x 30 fx	11	38			
Breast & N – T.B.	11	30			

Methods

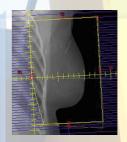
From January to June 2017, 61 invasive breast cancer (pT1–3a, pN0–1a, M0,R0) pts. underwent to RT concomitant with oral supplementation with W-care - lipids EPA – Collagen, Arginine and A, C and E- vitamins. RT was performed at whole breast and at lumpectomy site with hypofractionated regimen and concomitant boost, at dose \fx of 225 & 250 cGy in twenty daily fractions, or ,alternatively ,with the standard treatment at dose\fx of 200cGy for 25\30fx.

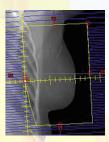
the dose homogeneity was obtained with modified tangentially fields and field-in-field, to avoid the hot\cold regions and NT injury.

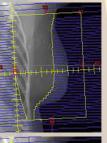
W-care were subministered once a day the week before and twice a day during RT.

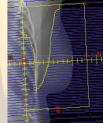
Four patient discontinued W-care for unpleasant taste or low compliance after two week of treatment

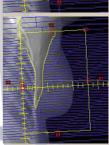
The primary endpoint was the soothing cream need Only 16 pts (out 0f 61) were required to use topic protection against radiation induced dermatitis. Early and late-occurring NT effects were assessed weekly and at the end of RT by patients, with Short satisfaction questionnaire, from E.O. assessments of redness measurement, Radiation Dermatitis Severity score presence of moist desquamation and registered with digital photographies

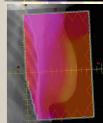


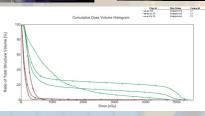












Results There were no interruption of RT treatment. 61/61 pts were satisfied of the

cosmetic outcome.
A significantly lower rate of skin topic treatments was observed when compared with historical

data group (28% vs.95%)



data group comparison use					
moisturizers			Other drugs		
RT doses & volumes	2017:28%	2016: 95%	2017	2016: 3%	
225\250 sib x 20 fx	7	32			
200 x 25 fx	4	54		1	
200 x 30 fx	5	36		3	
rate of occurrence of skin topic treatment					

Conclusions

The incidence of the radiation-induced skin reactions we reduced with the use of the innovative technology By the use of the nutraceutical supplementation with **W-CARE** we recorded an important impact on early and late skin toxicities

maximum acute toxici[,]