



# CANTO-RT: Skin toxicities evaluation of a multicenter large prospective cohort of irradiated patients for early-stage breast cancer

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## INTRODUCTION

Cutaneous toxicities are common side effects of cancer therapy in patients with early-stage breast cancer. These toxicities can be related to the different modalities of the treatment: surgery, chemotherapy, radiotherapy. Cutaneous toxicities are the main side effect of radiotherapy and, in certain cases, may result in the discontinuation of treatment.

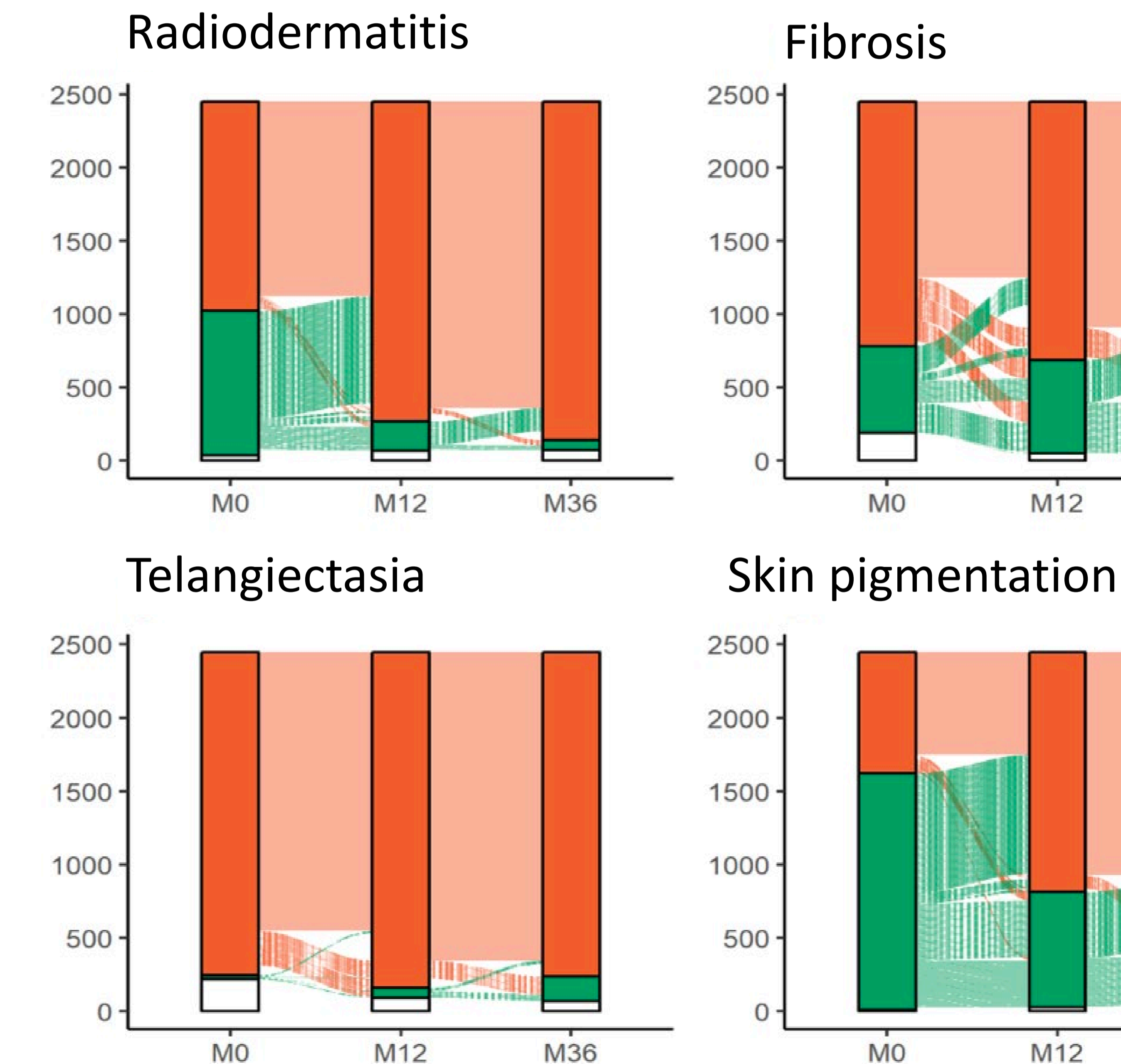
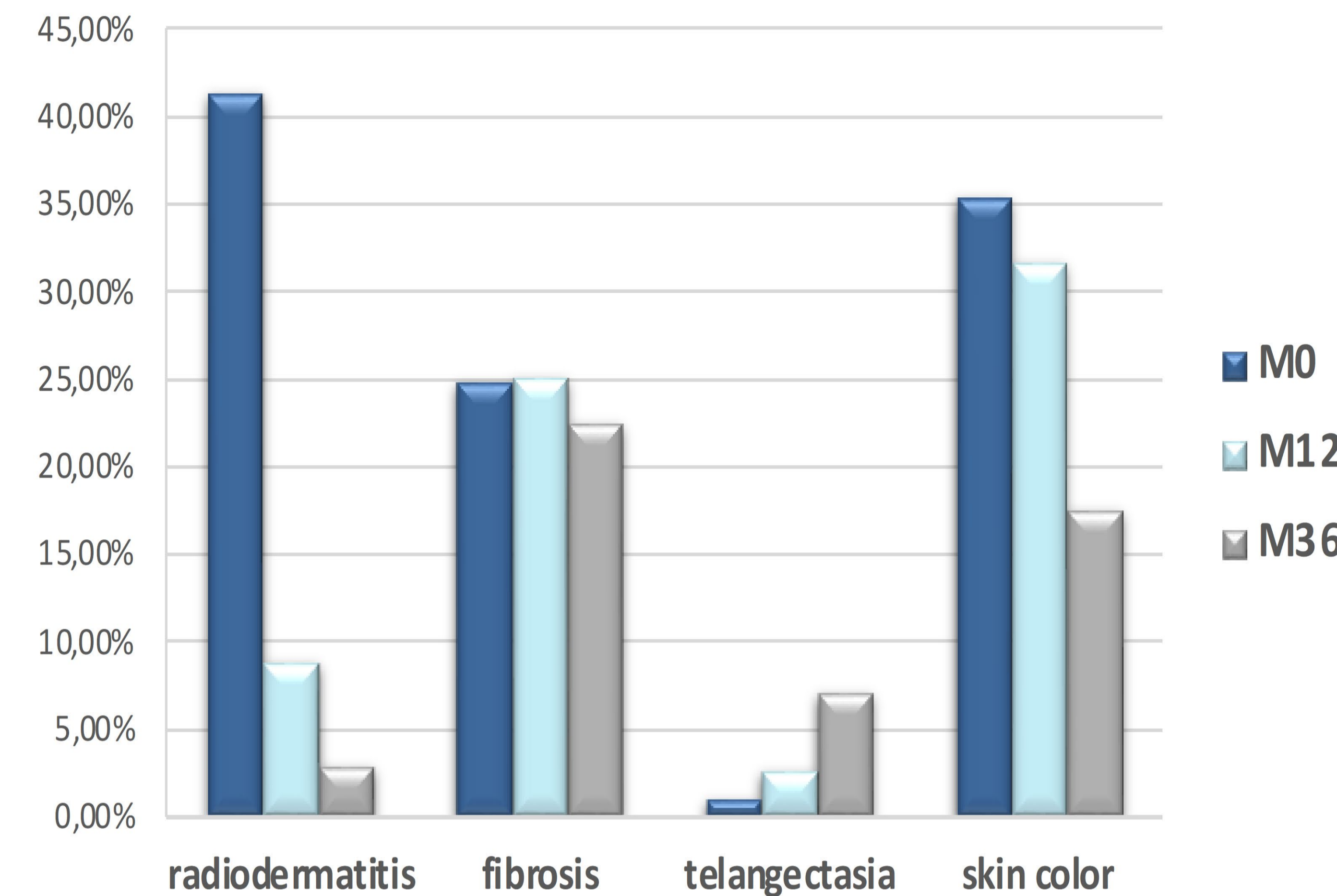
## AIM

The purpose of this study was to determine the risk factors for skin toxicities in patients treated for early breast focusing on 4 skin adverse events : radiodermatitis, fibrosis, telangiectasia and skin pigmentation

## METHOD

We used the CANcer TOxicity study, a large French multicentric prospective cohort study. The toxicities of interest were prospectively evaluated at M0, M12 and M36, using the CTCAEv4 scale. We evaluated 3480 breast cancer patients with available radiotherapy

## RESULTS



		M0 (n=3006)			M12 (n=1569)			M36 (n=1523)		
		N	OR [IC95%]	P-value	N	OR [IC95%]	P-value	N	OR [IC95%]	P-value
<b>Fibrosis</b>	Boost									
	No	-	-		358	1 (ref)	0.993	460	1 (ref)	0.172
	Yes	-	-		1211	1.00 [0.59 ; 1.68]		1063	1.30 [0.89 ; 1.91]	
<b>Fibrosis</b>	Fractionation									
	Normofractionation	-	-		1428	1 (ref)	0.194	-	-	
	Hypofractionation	-	-		141	1.46 [0.82 ; 2.57]		-	-	
<b>Radiodermatitis</b>	Technique RT*									
	3D**	-	-		-	-		1478	1 (ref)	0.102
	IMRT***	-	-		-	-		45	0.45 [0.13 ; 1.16]	
<b>Radiodermatitis</b>	RT technique*									
	3D**	3246	1 (ref)	<0.002	-	-		-	-	
	IMRT***	134	0.42 [0.28 ; 0.62]		-	-		-	-	

## CONCLUSIONS

In this study we have identified different risk factors for skin toxicity in patients irradiated for early-stage breast cancer. It results, however, that few modalities of radiotherapy are associated with the occurrence of these toxicities and especially for fibrosis.

## REFERENCES

CANTO-RT: Skin toxicities evaluation of a multicentre large prospective cohort of irradiated patients for early-stage breast cancer  
 S.Allali et al; Int J Cancer, 2022-04-30,

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