

Journal of Cancer

Association between Tooth Extraction 2 Weeks before Radiotherapy and Osteoradionecrosis (ORN) in Patients with Advanced Oral and Oropharyngeal Cancer

Impact of strategic oral care before radiotherapy.



Patients

N=130

Oral/Oropharyngeal Cancer
Radiotherapy (2011-2018)
Miyagi Cancer Center



Radiotherapy (RT)
(3w-CDDP+RT / RT)

N=93 analyzed

AOC Group (Additional Oral Care) (N=43)

Prophylactic
Extraction
≥ 2 wks before RT

ORN Incidence
No ORN Incidence



7.1% ORN

UOC Group (Usual Oral Care) (N=50)

Prophylactic
Extraction
No

ORN Incidence
No ORN Incidence



41.5% ORN

Conclusion

Prophylactic Extraction
≥ 2 wks before RT
reduces ORN risk by
~90%

HR: 0.108 (95%CI: 0.019-0.606)

N=93 analyzed

(3w-CDDP+RT / RT)
Radiotherapy (RT)



Miyagi Cancer Center
Radiotherapy (2011-2018)
Oral/Oropharyngeal Cancer

N=130

7.1% ORN



ORN Incidence
No ORN Incidence

Prophylactic
Extraction
≥ 2 wks before RT

41.5% ORN



ORN Incidence
No ORN Incidence

No
Extraction

HR: 0.108 (95%CI: 0.019-0.606)

~90%
Reduces ORN risk by
Prophylactic Extraction
≥ 2 wks before RT

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