

Table 2. Study Characteristics – Prothetisch herstel

First author (year)	Cancer diagnosis and treatment	Number of subjects - (DAS/P)	No. implants placed: DAS/P	Population characteristics	Timing implant placement & Radiotherapy (DAS)	Timing implant placement & Radiotherapy (P)	Outcome measures	Comments
Mizbah, 2013	Oral cavity – surgery with or without postoperative RT	99/29	249/65	<u>Male/Female</u> 294/216 (this is the ratio for the total group of patients included in this study, information for subgroup that complies with our PICO was not available) <u>Mean age (SD)</u> Not reported	N= 47/99 RT after surgery (within 6 weeks) N= 52/99 no RT after surgery	N= 17/29 RT before implant placement; N= 12/29 no RT after surgery/before implant placement	- Time to overdenture placement (reported as time of becoming functional (i.e. the time of abutment placement)) - Successful overdenture placement	
Wetzel, 2016	Oral cavity – surgery with or without postoperative RT	18/9	40/19	<u>Male/Female</u> DAS:15/8 P: 18/15 <u>Mean age (SD)</u> DAS: 67.95 (11.4) P: 70.95 (9.8) <u>Primary tumor location (%)</u> Maxilla DAS : 2 (12)	N= 16/23 RT after surgery (within 6 weeks) N= 7/23 no RT after surgery (this is the ratio for the total group of patients included in this study, information for subgroup that complies with our PICO was not available)	N= 18/33 RT before implant placement; N= 15/33 no RT after surgery/before implant placement (this is the ratio for the total group of patients included in this study, information for subgroup that complies with our PICO was not available)	- Masticatory performance (mixing ability test) - Bite force	Same cohort as Wetzel (2017)

				<p>P : 8 (22)</p> <p>Mandible</p> <p>DAS : 11 (46)</p> <p>P : 16 (50)</p> <p>FOM or tongue</p> <p>DAS : 10 (42)</p> <p>P : 9 (28)</p> <p>(these are the ratios for the total group of patients included in this study, information for subgroup that complies with our PICO was not available)</p>				
Wetzel, 2017	Oral cavity – surgery with or without postoperative RT	79/18	225/43	<p><u>Male/Female</u></p> <p>DAS: 55/43</p> <p>P: 49/46</p> <p><u>Mean age (SD)</u></p> <p>DAS: 66.25 (11.5)</p> <p>P: 66.25 (11.5)</p> <p><u>Primary tumor location (%)</u></p> <p>Maxilla</p> <p>DAS: 6 (6)</p>	<p>N= 54/98 RT after surgery (within 6 weeks)</p> <p>N= 44/98 no RT after surgery</p>	<p>N= 50/95 RT before implant placement;</p> <p>N= 45/95 no RT after surgery/before implant placement</p>	<p>-ORN</p> <p>-Time to overdenture placement</p> <p>-Successful overdenture placement</p>	<p>Same cohort as Wetzel (2016)</p>

				<p>P: 11(12)</p> <p>Lower alveolar process</p> <p>DAS: 24 (25)</p> <p>P: 26 (27)</p> <p>Cheek</p> <p>DAS: 8 (8)</p> <p>P: 9 (10)</p> <p>Tongue</p> <p>DAS: 17 (28)</p> <p>P: 24 (25)</p> <p>FOM</p> <p>DAS: 29 (30)</p> <p>P: 24 (25)</p> <p>Lip</p> <p>DAS: 4 (4)</p> <p>P: 1 (1)</p> <p>(these are the ratios for the total group of patients)</p>			
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				included in this study, information for subgroup that complies with our PICO was not available)				
Woods, 2019	Tumors of the jaws – surgery with or without postoperative RT	20 (NR/NR)	39/63	<u>Male/Female</u> 13/7 <u>Mean age (range)</u> 56 (17-91)	Postoperative radiotherapy (PORT) was administered to 10 patients No additional information was provided in the paper.	-Time to overdenture placement -Successful overdenture placement		
McMillan, 2023	Oral cavity – surgery with or without adjuvant therapy (RT, CRT or chemo)	33 (15/18)	unknown	<u>Male/Female</u> DAS: 7/8 P: 11/7 <u>Mean age (SD)</u> DAS: 55.6 (13.81) P: 55.6 (13.81)	6/15 patients received no adjuvant therapy 9/15 patients received adjuvant radiotherapy 2/15 received adjuvant chemotherapy	Postponed-placement protocol 6/18 patients received no adjuvant therapy 8/18 patients received adjuvant radiotherapy 6/18 received adjuvant chemotherapy	-ORN -Time to overdenture placement	
Tumuluri, 2023	Unknown- Surgery (mandible resection and vascularised free bone flaps with or without pre or postoperative RT	34/18	123/64	<u>Male/Female</u> DAS: 20/14 P: 6/12 <u>Mean age</u> DAS: 58.4 P: 57.6	21/34 patients received no adjuvant therapy (of which 3 had ORN due to previous RT) 13/34 patients received surgery and radiotherapy	14/18 patients received no adjuvant therapy (of which 4 had ORN due to previous RT) 4/18 patients received surgery and radiotherapy	-ORN -Time to overdenture placement -Successful overdenture placement	

				<u>Reason for surgery (%)</u> Malignancy DAS: 28 (82.4) P: 11 (61.1) Osteoradionecrosis DAS: 3 (8.8) P: 4 (22.2) Defect following previous surgery DAS: 3 (8.8) P: 3 (17)			
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FOM: floor of mouth; DAS: placement during tumor ablation surgery (Intervention); P: placement postponed(Control)