



Grounding Caption

This localization caption provides multi-dimensional spatial analysis of anatomical structures and pathological findings for this panoramic dental X-ray image, including:

Teeth visibility with center points (total: 26):

```
[  
{'point_2d': [582, 486], 'tooth_id': '45', 'score': 0.94},  
{'point_2d': [784, 499], 'tooth_id': '31', 'score': 0.94},  
{'point_2d': [454, 312], 'tooth_id': '17', 'score': 0.93},  
{'point_2d': [751, 498], 'tooth_id': '41', 'score': 0.92},  
{'point_2d': [645, 342], 'tooth_id': '13', 'score': 0.91},  
{'point_2d': [671, 497], 'tooth_id': '43', 'score': 0.91},  
{'point_2d': [436, 444], 'tooth_id': '47', 'score': 0.91},  
{'point_2d': [818, 354], 'tooth_id': '22', 'score': 0.9},  
{'point_2d': [782, 349], 'tooth_id': '21', 'score': 0.9},  
{'point_2d': [698, 343], 'tooth_id': '12', 'score': 0.9},  
{'point_2d': [858, 511], 'tooth_id': '33', 'score': 0.89},  
{'point_2d': [943, 493], 'tooth_id': '35', 'score': 0.89},  
{'point_2d': [898, 499], 'tooth_id': '34', 'score': 0.89},  
{'point_2d': [626, 492], 'tooth_id': '44', 'score': 0.89},  
{'point_2d': [868, 353], 'tooth_id': '23', 'score': 0.88},  
{'point_2d': [376, 410], 'tooth_id': '48', 'score': 0.87},  
{'point_2d': [818, 503], 'tooth_id': '32', 'score': 0.87},  
{'point_2d': [614, 340], 'tooth_id': '14', 'score': 0.87},  
{'point_2d': [718, 495], 'tooth_id': '42', 'score': 0.86},  
{'point_2d': [1128, 420], 'tooth_id': '38', 'score': 0.86},  
{'point_2d': [566, 342], 'tooth_id': '15', 'score': 0.85},  
{'point_2d': [1075, 456], 'tooth_id': '37', 'score': 0.85},  
{'point_2d': [736, 343], 'tooth_id': '11', 'score': 0.83},  
{'point_2d': [994, 343], 'tooth_id': '26', 'score': 0.82},  
{'point_2d': [908, 357], 'tooth_id': '24', 'score': 0.82},  
{'point_2d': [940, 351], 'tooth_id': '25', 'score': 0.8}  
]
```

Wisdom teeth detection (total: 2):

```
[  
{'box_2d': [331, 356, 421, 464], 'tooth_id': '48', 'is_impacted': false, 'score': 0.87},  
{'box_2d': [1078, 364, 1179, 476], 'tooth_id': '38', 'is_impacted': false, 'score': 0.86}  
]
```

Dental Pathological Findings (total: 0):

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[  
]
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Historical Treatments (total: 0):

```
[  
]
```

Medical Report

Teeth-Specific Observations

General Condition

A total of 26 teeth are visualized within the panoramic field. The maxillary and mandibular wisdom teeth (#48 and #38, respectively) are present and fully erupted with no evidence of impaction. No significant dental abnormalities or missing teeth are observed.

Pathological Findings

No active pathologies, carious lesions, or radiolucent/radiopaque abnormalities are detected. The periodontal ligament spaces and alveolar bone appear intact.

Historical Interventions

No prior dental restorations, crowns, root canal treatments, or implants are identified.

Clinical Summary & Recommendations

Priority Concerns

No urgent dental issues are present.

Preventive Measures

- Reinforce routine oral hygiene practices, including interdental cleaning and fluoride use.
- Educate on dietary modifications to minimize caries risk.

Follow-up Protocol

- Schedule a 6-month recall for routine monitoring and panoramic re-evaluation.
- Maintain annual bitewing radiographs to screen for interproximal caries.
- Refer to an orthodontist for wisdom tooth (#38/#48) positional assessment if eruptive complications arise.