



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: 30):

```
[
{'point_2d': [1143, 673], 'tooth_id': '36', 'score': 0.96},
{'point_2d': [609, 691], 'tooth_id': '46', 'score': 0.95},
{'point_2d': [682, 716], 'tooth_id': '45', 'score': 0.94},
{'point_2d': [971, 701], 'tooth_id': '33', 'score': 0.93},
{'point_2d': [1069, 696], 'tooth_id': '35', 'score': 0.93},
{'point_2d': [514, 668], 'tooth_id': '47', 'score': 0.93},
{'point_2d': [1228, 641], 'tooth_id': '37', 'score': 0.92},
{'point_2d': [633, 511], 'tooth_id': '15', 'score': 0.92},
{'point_2d': [1234, 452], 'tooth_id': '27', 'score': 0.92},
{'point_2d': [1023, 702], 'tooth_id': '34', 'score': 0.92},
{'point_2d': [891, 684], 'tooth_id': '31', 'score': 0.92},
{'point_2d': [448, 619], 'tooth_id': '48', 'score': 0.91},
{'point_2d': [487, 487], 'tooth_id': '17', 'score': 0.91},
{'point_2d': [561, 497], 'tooth_id': '16', 'score': 0.9},
{'point_2d': [829, 694], 'tooth_id': '42', 'score': 0.9},
{'point_2d': [780, 719], 'tooth_id': '43', 'score': 0.9},
{'point_2d': [811, 508], 'tooth_id': '11', 'score': 0.89},
{'point_2d': [883, 501], 'tooth_id': '21', 'score': 0.89},
{'point_2d': [770, 517], 'tooth_id': '12', 'score': 0.89},
{'point_2d': [1291, 585], 'tooth_id': '38', 'score': 0.88},
{'point_2d': [734, 721], 'tooth_id': '44', 'score': 0.88},
{'point_2d': [928, 505], 'tooth_id': '22', 'score': 0.88},
{'point_2d': [1032, 489], 'tooth_id': '24', 'score': 0.88},
{'point_2d': [1153, 469], 'tooth_id': '26', 'score': 0.87},
{'point_2d': [716, 506], 'tooth_id': '13', 'score': 0.84},
{'point_2d': [983, 496], 'tooth_id': '23', 'score': 0.83},
{'point_2d': [922, 680], 'tooth_id': '32', 'score': 0.82},
{'point_2d': [1082, 478], 'tooth_id': '25', 'score': 0.8},
{'point_2d': [682, 518], 'tooth_id': '14', 'score': 0.78},
{'point_2d': [861, 690], 'tooth_id': '41', 'score': 0.78}
]
```

Wisdom teeth detection (total: 2):

```
[
{'box_2d': [390, 554, 506, 684], 'tooth_id': '48', 'is_impacted': false, 'score': 0.91},
{'box_2d': [1237, 515, 1345, 654], 'tooth_id': '38', 'is_impacted': false, 'score': 0.88}
]
```

Dental Pathological Findings (total: 0):

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[
]
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Historical Treatments (total: 0):

```
[
]
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Medical Report

Teeth-Specific Observations

1. General Condition

A total of 30 teeth are visualized, consistent with a complete dentition excluding the absence of wisdom teeth #18 and #28. Wisdom teeth #38 (right maxillary third molar) and #48 (left mandibular third molar) are present and non-impacted, with no signs of pericoronitis or radiographic abnormalities. The remaining teeth demonstrate normal alignment and eruption.

2. Pathological Findings

No pathological findings are identified on the radiographic examination.

3. Historical Interventions

No prior dental treatments, restorations, or implants are observed in the field.

Clinical Summary & Recommendations

1. Priority Concerns

- Absence of wisdom teeth #18 and #28 requires clinical correlation to determine if congenitally missing or unerupted.
- No urgent pathological conditions detected.

2. Preventive Measures

- Reinforce oral hygiene protocols to prevent periodontal disease, particularly near the wisdom teeth (#38, #48).
- Monitor for asymptomatic unerupted teeth during follow-up visits.

3. Follow-up Protocol

- Schedule a 6-month recall for routine evaluation and radiographic monitoring of #18 and #28 status.
- Consider referral to an oral surgeon for further assessment of missing wisdom teeth if clinically indicated.
- Continue annual panoramic imaging for longitudinal monitoring of dental health.