



## 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):

```
[
]
```

Historical Treatments (total: 0):

```
[
]
```

# 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.

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## 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.