Magnetic resonance imaging in gustatory disorders:

Diagnostic usefulness with a cost analysis



Clinical challenge

- 1. Isolated taste disorders are rare and diagnostically challenging
- 2. No standardized imaging guidelines exist



Cost analysis

- → Total MRI cost: 55,034 CHF
- Cost per taste-related finding: 7,862 CHF



Cost per attributable finding: 13,759 CHF



MRI findings

70 MRIs

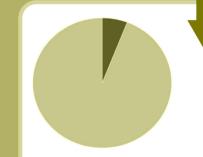
65 analyzable

54 abnormal findings

46 incidentalomas (70.8%)

8 potentially taste-relevant

4 clinically attributable (6%)



1 relevant MRI per 16 performed!

	No. of MRIs exclusively for taste disorders	% MRI	No. of abnormal MRIs	No. of MRIs/ abnormality	No. of taste- relevant abnormal MRIs	No. of MRIs per taste-relevant abnormality	No. of attributable taste-relevant MRIs	No. of MRIs/ attributable taste-relevant findings	Cost/ attributable taste-relevant findings (CHF)
125 Conclu	64	51.2	53	1.2	7	9.14	4 RI indications	16	13,758.72

Retrospective clinical review

- management in isolated taste loss
- MRI rarely changes Routine MRI not justified
 - MRI only for selected cases after full clinical evaluation



- Atypical/focal neurological symptoms
- Unexplained unilateral taste loss
- Known systemic/neurological disease
- Persistent idiopathic cases after full workup