

# Management of a patient with neuroendocrine cancer and metastases – a case report

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## Introduction

A 66-year-old female patient presented with apical periodontitis related to the LR5, which had a poor prognosis. She was referred to Oral Surgery for a second opinion about extracting the LR5. This was due to her complex medical history, and a history of developing medication related osteonecrosis of the jaw (MRONJ), as she was on long term IV zoledronic acid.<sup>1</sup> The patient also reported some anxiety about dental treatment.

## Case Report

### MEDICAL HISTORY

- Neuroendocrine cancer (primary in lungs)
- Malignant brain tumour – surgery and radiotherapy
- Spinal and bone metastases
- Depression
- Hypertension
- Anaemia
- Allergy to clarithromycin

### SOCIAL HISTORY

- Lives with husband
- Has capacity to consent
- Smokes 20 a day for over 40 years
- Alcohol: 0 units

Female  
66 years old

### DENTAL HISTORY

- Regular attender
- Reports a low sugar diet and brushes twice a day
- Previous dental extractions under IV sedation
- Restorations have previously been completed with the use of WAND (computer assisted local anaesthetic delivering system which reduces pain experienced during infiltrations)
- Reported anxiety about root canal treatment (RCT)
- 2018 – LR6 was extracted, and resulted in MRONJ
- 2021 – LR8 was extracted, and healing took 7 months

### MEDICATION

- Amitriptyline 50mg
- Doxazosin 2mg
- Ferrous sulfate 200mg
- Lansoprazole 30mg
- Morphine sulfate 10mg/5ml
- Zomorph 100mg
- Bisacodyl 5mg
- IV zoledronic acid (6 weekly infusions)
- Senna
- Naproxen
- Lanreotide

## References

1. SDCP. Oral Health Management of Patients at Risk of Medication-related Osteonecrosis of the Jaw. 2017.
2. Challacombe SJ. The Challacombe Scale. Available at: [www.challacombescale.co.uk](http://www.challacombescale.co.uk) Guy's & St Thomas' NHS Foundation Trust Oral Medicine Unit. 2011.
3. Public Health England. Delivering better oral health: an evidence-based toolkit for prevention. Fourth edition. 2021
4. NICE. Dental recall guidelines. London: National Institute for Health and Clinical Excellence; 2004.

## Examination

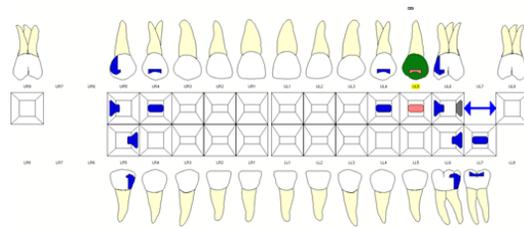
**Extra Oral:** nad

**Intra Oral:**

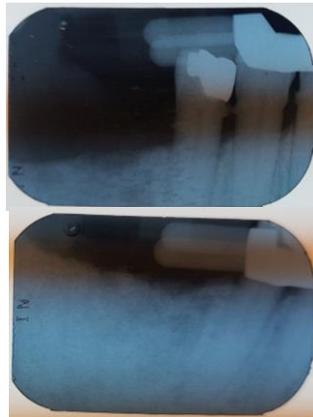
- LR5 chronic sinus draining buccally. Grade II mobile.
- Mild dry mouth. Challacombe scale<sup>2</sup> = 1
- Oral hygiene: poor with generalised plaque and calculus

**BPE:** 323/223

**Hard tissues:**



### Radiographs:



Periapical radiographs of the LR5.

## Diagnoses

- LR5 apical periodontitis
- Generalised periodontitis, stage 3, grade B, currently unstable, risk factors - smoker and poor oral hygiene
- Drug – induced xerostomia

## Treatment Plan

1. Prevention – sodium fluoride toothpaste 1.1% prescribed and topical fluoride varnish placed. Intensive oral hygiene instructions were given.<sup>3</sup>
2. Smoking cessation advice provided<sup>3</sup>
3. Professional mechanical plaque removal
4. RCT LR5 with the use of WAND
5. Recall 3/12 due to high risk factors.<sup>4</sup>

## Challenges

- **Motivation:** fluctuating motivation with regards to oral hygiene and therefore periodontal treatment has been unsuccessful in the past.
- **Smoking cessation:** Patient did not want to engage with advice.
- **Polypharmacy:** Drug – induced mild xerostomia not affecting quality of life at present. Preventative and management advice was given.
- **Management of anxiety:** related to previous bad experience of root canal treatment. Use of WAND suggested as it has been successful with restorations.
- **Treatment adaptation:** Bone pain due to metastases to the spine. May need to offer short appointments and provide cushions.
- **Long – term management:** grade II mobile root filled LR5 may exfoliate naturally over time avoiding MRONJ.
- **Barrier:** Patient may be attending multiple hospital appointments and may delay treatment due to this.

## Discussion

This case demonstrates that due to complex medical comorbidities, we may have to at times restore teeth that have a poor prognosis. It also highlights the necessity of gaining a second opinion and referring to oral surgery even when extractions appear 'simple', due to a history of MRONJ. The case also highlights methods other than conscious sedation that can be used to manage patient anxiety, such as the WAND.

### Acknowledgements

Thank you to CDS-CIC and the patient for their consent.