Clinical summary

- Male 50 year-old with carcinoma of the right retromolar trigone treated with surgery and chemoradiation

- The opposite neck was also included in the radiotherapy field because of positive contralateral nodal disease

- Presents with swelling of the jaw on the left side associated with pain

- PET-CT performed to assess for recurrent disease
Focal intense FDG uptake in the jaw with corresponding CT showing osteolytic lesion underlying the soft tissue swelling.

Fine needle aspirate & culture showed aseptic osteomyelitis.

Patient improved with debridement.
Clinical summary

- Male 45 year-old with carcinoma of the left buccal mucosa treated with radiotherapy
- For restaging PET/CT
Focal FDG uptake in the left side of the mandible with the CT showing sclerosis, cortical break and fragmentation suggestive of osteoradionecrosis.
Teaching points

• Osteonecrosis of the jaw is a known complication post-radiotherapy and FDG PET is known to be positive in the region of aseptic inflammation.

• The same complication is also known to arise from high dose bisphosphonate therapy.