Table 1. Characteristics of included studies – Imaging to monitor treatment response

Study	Participants (number, age, other important characteristics)	Comparison	Follow-up	Outcome measures	Comments	Risk of bias (per outcome measure)*
Individual	studies			l		
Shavit, 2018	Type of study: Retrospective analysis. N at baseline Intervention: 12 Control: 12 Mean age was 74 ± 11.5; 10 patients (83%) were male; 10 (83%)	For treatment response: The second scan demonstrated no FDG uptake in four patients and substantially reduced FDG uptake in three patients. Hence, treatment was stopped for all seven patients. One patient had significant FDG uptake. The patient completed a second 6-week course of antibiotic treatment until a third scan demonstrated no FDG uptake	Mean follow-up was 16 ± 15 months. Two patients died before the second PET/CT while still treated with antibiotics for active osteomyelitis Two patients were lost to follow-up and did not complete the second scan	Remission		Risk of bias for remission in selection and index test
	After average 16 month follow-up, patients reamained free from disease. Mean duration of treatment was 61 days ± 44.					

	The maximum was 192 days.					
Kulkarni, 2020	Type of study: Retrospective analysis. Inclusion criteria: Patients referred for FDG-	For follow up analysis: Intervention: 23 (42.8%) patients had imaging follow up with FDG-PET/CT	The patients were followed in intervals after a duration of 52 ± 9 days. Total follow up was not specified.	Remission	No specification of underlying origin of disease (only SBO, not only NOE) No recurrence of disease or length of treatment was specified.	When reporting remission, there was risk of Bias for selection and reporting
	PET/CT imaging for suspected skull base osteomyelitis. Exclusion criteria: Known malignancy (1); Loss for follow up (2); Incomplete data (3)	Referall: 54 (57.2%) only had clinical follow up. No recurrence of disease or length of treatment was specified.			Regarding treatment response. Of the 23 patients with follow up FDG-PET/CT, 14 showed progression of disease and 7 regression. The FDG-PET/CT scan predicted this correctly, according to later clinical findings. (other numbers not specified.)	
	N total at baseline: 83 patients were originally included. 6 were excluded. Of the 77 remaining cases, 56 patients also underwent a MRI.	Regarding treatment response. Of the 23 patients with follow up FDG-PET/CT, 14 showed progression of disease and 9 regression. The FDG-PET/CT scan predicted this correctly, according to later clinical findings. (other numbers or not specified.				
	Intervention: 56					

	Control: 77 Important prognostic factors: male:female = 56:21; mean age 66.4 ± 9.4 years; range 45–92 years Groups were comparable	Progression or regression of disease was seen as a increase or decrease respectively in SUVmax,.				
	at baseline.					
Vosbeek, 2023	Type of study: Retrospective analysis. N at baseline	In 20 cases imaging was used to define treatment response and cessation of treatment. They were divided in groups (zie Comments).	The mean duration of follow-up after cessation of IV therapy in the group of cases who achieved remission was 39 months (range 3–83 months; n = 21). For 2 patients, no follow-up time after cessation of	Remission	Patients were divided in 3 groups: 1 group where resolution of signs of active inflammation on imaging was the cessation point of systemic antibiotic and/or antifungal therapy (n = 9), 1 group where near resolution of active	When reporting remission, there was risk of Bias for selection and
	Intervention: 24 Important prognostic	Regarding FDG-PET/CT: (other patients had gallium scans)	therapy was reported since they died outside of the hospital and the date of death was unknown. 1 patient died of another cause before remission was achieved.		inflammation on imaging was used as the cessation point (n = 3), and a group where other reasons for cessation of therapy were noted while there was no complete resolution on imaging (n = 8)	reporting
	factors:	Group 1: 5/5 remission				
	Mean age was 75 (43–91) years	Group 2: 1/1 remission Group 3: 2/1 remission				
	20 (83%) were male. 20 were diabetic (83%)					

Thanneru, 2024	Type of study: prospective cohort study N at baseline	All patients underwent a FDG-PET/CT (28). 20 patients underwent a scan when cured.	median follow up time of 20 months. Spread was not described	Remission	When reporting remission, there was risk of Bias for selection and
	Intervention: 28 Control: 28 (same patients) Patients characteristics were not described	The patient was considered clinically cured of the disease when asymptomatic status was maintained without any appearance of new signs of the disease for a minimum of three weeks.			reporting
		8 patients with active disease were also scanned, however the specifics at what time and phase of disease this was performed was not mentioned.			

^{*}For further details, see risk of bias table in the appendix