SUPPLEMENTAL TABLE 1. Acquisition parameters of the head and neck magnetic resonance imaging sequences.

	Slice mm	Gap mm	TR ms	TE ms	Scan type	TI ms	B-value
STIR	5	0,5	5909	70	2D/IR	165	
T1w	4	0,4	586	15	2D/TSE		
T2w	4	0,4	3742	80	2D/TSE		
DWI	4	0	11711	104	2D/GRA		0+800
T1w gd Trans	4	0,4	586	15	2D/TSE		
T1w gd Cor	4	0,4	558	14	2D/TSE		

STIR=Short-TI Inversion Recovery, T1w=T1 weighted image, T2w=T2 weighted image DWI=Diffusion weighted imaging, TR ms= Repetition time in milliseconds, TE ms=Echo time in milliseconds, TI ms=Inversion time in milliseconds, 2D/IR= Two-Dimensional Inversion-Recovery, 2D/TSE= Two-Dimensional Turbo Spin-Echo, 2D/GRA= Two-Dimensional Gradient-Echo.

SUPPLEMENTAL TABLE 2. The net reclassification improvement (NRI) for staging of recurrent head and neck squamous cell carcinoma staging based.

CXR/MRI	PET/CT stage					
	Number of patients			**Reclassified (%)**		
	Localized	Locally advanced	Metastatic	Up-staged	Down-staged	Net correctly classified
Patients alive (n=47)						
Localized	15	9	0	10 (21.3%)	5 (10.6%)	-10.7%
Locally advanced	5	17	1			
Metastatic	0	0	0			
Patients died (n=63)						
Localized	3	10	7	40 (63.5%)	1 (1.6%)	61.9%
Locally advanced	0	13	23			
Metastatic	0	1	6			
NRI (95% CI) **p-value**						51.2% (29.9% to 72.5%) <0.001

CI =confidence interval, CXR=chest X-ray, MRI=magnetic resonance imaging of the head and neck, PET/CT=^{18}F-FDG-PET/CT.

SUPPLEMENTAL TABLE 3. The net reclassification improvement (NRI) for staging of recurrent head and neck squamous cell carcinoma staging based.

CCT/MRI	PET/CT stage					
	Number of patients			**Reclassified (%)**		
	Localized	Locally advanced	Metastatic	Up-staged	Down-staged	Net correctly classified
Patients alive (n=47)						
Localized	10	4	0	5 (10.6%)	20 (42.6%)	32.0%
Locally advanced	4	12	1			
Metastatic	6	10	0			
Patients died (n=63)						
Localized	3	9	1	27 (42.9%)	1 (1.6%)	41.3%
Locally advanced	0	14	17			
Metastatic	0	1	18			
NRI (95% CI) **p-value**						73.3% (54.3% to 92.3%) <0.001

CCT=chest Computed tomography, CI =confidence interval, PET/CT=^{18}F-FDG-PET/CT.