

Optimizing ultrafast dynamic contrast-enhanced MRI scan duration in the differentiation of benign and malignant breast lesions

ELECTRONIC SUPPLEMENTARY MATERIAL

Table S1: *DeLong* test for receiver operator characteristic curve of ultrafast DCE-MRI parameters among different scan duration

Parameter	MS _{40.5s}	MS _{54s}	MS _{67.5s}	MS _{81s}	MS _{94.5s}	MS _{108s}	MS _{121.5s}	MS _{135s}
MS _{40.5s}	/	> 0.99	0.002	0.002	0.003	0.003	0.01	0.002
MS _{54s}	> 0.99	/	0.10	0.03	0.12	0.11	0.63	0.10
MS _{67.5s}	0.002	0.10	/	> 0.99	> 0.99	> 0.99	> 0.99	> 0.99
MS _{81s}	0.002	0.03	> 0.99	/	> 0.99	> 0.99	> 0.99	> 0.99
MS _{94.5s}	0.003	0.12	> 0.99	> 0.99	/	> 0.99	> 0.99	> 0.99
MS _{108s}	0.003	0.11	> 0.99	> 0.99	> 0.99	/	> 0.99	> 0.99
MS _{121.5s}	0.01	0.63	> 0.99	> 0.99	> 0.99	> 0.99	/	> 0.99
MS _{135s}	0.002	0.10	> 0.99	> 0.99	> 0.99	> 0.99	> 0.99	/

Note—MS_{40.5s} = MS with a scan duration of 40.5 seconds; MS_{54s} = MS with a scan duration of 54 seconds; MS_{67.5s} = MS with a scan duration of 67.5 seconds; MS_{81s} = MS with a scan duration of 81 seconds; MS_{94.5s} = MS with a scan duration of 94.5 seconds; MS_{108s} = MS with a scan duration of 108 seconds; MS_{121.5s} = MS with a scan duration of 121.5 seconds; MS_{135s} = MS with a scan duration of 135 seconds.

p values were adjusted by *Bonferroni* correction.

Table S2: DeLong test for receiver operator characteristic curve of ultrafast DCE-MRI parameters among different scan duration

Parameter	iAUC _{40.5s}	iAUC _{54s}	iAUC _{67.5s}	iAUC _{81s}	iAUC _{94.5s}	iAUC _{108s}	iAUC _{121.5s}	iAUC _{135s}
iAUC _{40.5s}	/	0.01	0.01	0.045	0.004	< 0.001	< 0.001	0.001
iAUC _{54s}	0.01	/	> 0.99	> 0.99	0.93	0.11	0.17	0.18
iAUC _{67.5s}	0.01	> 0.99	/	> 0.99	> 0.99	> 0.99	> 0.99	> 0.99
iAUC _{81s}	0.045	> 0.99	> 0.99	/	> 0.99	0.37	0.49	0.63
iAUC _{94.5s}	0.004	0.93	> 0.99	> 0.99	/	0.77	> 0.99	> 0.99
iAUC _{108s}	< 0.001	0.11	> 0.99	0.37	0.77	/	> 0.99	> 0.99
iAUC _{121.5s}	< 0.001	0.17	> 0.99	0.49	> 0.99	> 0.99	/	> 0.99
iAUC _{135s}	0.001	0.18	> 0.99	0.63	> 0.99	> 0.99	> 0.99	/

Note—iAUC_{40.5s} = iAUC with a scan duration of 40.5 seconds; iAUC_{54s} = iAUC with a scan duration of 54 seconds; iAUC_{67.5s} = iAUC with a scan duration of 67.5 seconds; iAUC_{81s} = iAUC with a scan duration of 81 seconds; iAUC_{94.5s} = iAUC with a scan duration of 94.5 seconds; iAUC_{108s} = iAUC with a scan duration of 108 seconds; iAUC_{121.5s} = iAUC with a scan duration of 121.5 seconds; iAUC_{135s} = iAUC with a scan duration of 135 seconds.

p values were adjusted by Bonferroni correction.