

## Article

# Quantitative Multiparametric Ultrasound (mpUS) in the Assessment of Inconclusive Cervical Lymph Nodes

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## Supplementary Material.

**Table S1.** Contrast-enhanced ultrasound analysis of general cohort. All metric variables are given as median with corresponding standard deviation. Abbreviations: TTP denotes time to peak; mTTI, transit time; PE, peak enhancement; RT, rise time; WiAUC, wash-in area under the curve; WiR, wash-in rate; WiPi, wash-in perfusion index; WoAUC, wash-out area under the curve; WiWoAUC, wash-in/wash-out area under the curve; FT, fall time; WoR, wash-out rate.

Contrast-Enhanced Ultrasound ( <i>n</i> = 98)			
	Benign ( <i>n</i> = 34)	Malignant ( <i>n</i> = 64)	<i>p</i> -Value
<b>Lin</b>	116445.85 ± 353924.19	123339.71 ± 404779.02	> 0.05
<b>TTP (s)</b>	8.18 ± 2.71	8.52 ± 2.59	> 0.05
<b>mTTI (s)</b>	38.8 ± 28.65	52.05 ± 63.13	> 0.05
<b>PE</b>	959188.62 ± 3076141.37	1132352.14 ± 3974686.15	> 0.05
<b>RT (s)</b>	5.37 ± 1.78	5.85 ± 2.19	> 0.05
<b>WiAUC</b>	2240176.88 ± 6730820.83	3063429.61 ± 11173425.6	> 0.05
<b>WiR</b>	372230.53 ± 1251089.89	372547.11 ± 1265149.67	> 0.05
<b>WiPi</b>	601649.24 ± 1929603.57	704199.7 ± 2455057.61	> 0.05
<b>WoAUC</b>	3862267.84 ± 11482342.4	4802503.87 ± 16689799.6	> 0.05
<b>WiWoAUC</b>	6102444.61 ± 18194135.2	7865933.4 ± 27746921.3	> 0.05
<b>FT (s)</b>	11.44 ± 4.60	14.36 ± 8.6	> 0.05
<b>WoR</b>	173184.49 ± 571251.16	200415.06 ± 735514.91	> 0.05

**Table S2.** Contrast-enhanced ultrasound analysis of subgroup “Solbiati-Index > 2”. All metric variables are given as median with corresponding standard deviation. Abbreviations: TTP denotes time to peak; mTTI, transit time; PE, peak enhancement; RT, rise time; WiAUC, wash-in area under the curve; WiR, wash-in rate; WiPi, wash-in perfusion index; WoAUC, wash-out area under the curve; WiWoAUC, wash-in/wash-out area under the curve; FT, fall time; WoR, wash-out rate.

<b>Contrast-Enhanced Ultrasound (<i>n</i> = 25)</b>			
	<b>Benign (<i>n</i> = 16)</b>	<b>Malignant (<i>n</i> = 9)</b>	<b><i>p</i>-Value</b>
<b>Lin</b>	208874.77 ± 491519.34	9996.06 ± 29071.5	> 0.05
<b>TTP (s)</b>	8.25 ± 2.56	8.93 ± 1.8	> 0.05
<b>mTTI (s)</b>	34.57 ± 26.41	42.72 ± 22.01	> 0.05
<b>PE</b>	1892053.03 ± 4344410.95	58919.62 ± 173935.83	> 0.05
<b>RT (s)</b>	5.25 ± 1.67	5.88 ± 1.09	> 0.05
<b>WiAUC</b>	4134349.87 ± 9381491.06	181138.75 ± 532248.05	> 0.05
<b>WiR</b>	755992.07 ± 1771420.95	17112.39 ± 50637.85	> 0.05
<b>WiPi</b>	1184165.98 ± 2725209.69	37265.28 ± 109982.92	> 0.05
<b>WoAUC</b>	6811490.10 ± 15740943.3	321511.03 ± 941987.11	> 0.05
<b>WiWoAUC</b>	10945839.7 ± 25118069.6	502649.76 ± 1474234.74	> 0.05
<b>FT (s)</b>	10.7 ± 4.35	12.26 ± 2.98	> 0.05
<b>WoR</b>	355004.79 ± 355004.79	7148.72 ± 21196.03	> 0.05

**Table S3.** Contrast-enhanced ultrasound analysis of subgroup “Short axis diameter <1cm”. All metric variables are given as median with corresponding standard deviation. Abbreviations: TTP denotes time to peak; mTTI, transit time; PE, peak enhancement; RT, rise time; WiAUC, wash-in area under the curve; WiR, wash-in rate; WiPi, wash-in perfusion index; WoAUC, wash-out area under the curve; WiWoAUC, wash-in/wash-out area under the curve; FT, fall time; WoR, wash-out rate.

<b>Contrast-Enhanced Ultrasound (<i>n</i> = 45)</b>			
	<b>Benign (<i>n</i> = 27)</b>	<b>Malignant (<i>n</i> = 18)</b>	<b><i>p</i>-Value</b>
<b>meanLin</b>	123840.67 ± 387687.53	45911.75 ± 109515.07	> 0.05
<b>TTP (s)</b>	8.33 ± 2.82	7.91 ± 2.87	> 0.05
<b>mTTI (s)</b>	42.14 ± 30.4	32.77 ± 24.7	> 0.05
<b>PE</b>	1121399.16 ± 3433057.41	467533.02 ± 1212756.07	> 0.05
<b>RT (s)</b>	5.51 ± 1.81	5.35 ± 2.33	> 0.05
<b>WiAUC</b>	2450676.39 ± 7420124.02	1075655.33 ± 2719378.16	> 0.05
<b>WiR</b>	448046.91 ± 1397707.25	177994.01 ± 470568.09	> 0.05
<b>WiPI</b>	701845.828 ± 2153151.89	290738.07 ± 754994.18	> 0.05
<b>WoAUC</b>	4037905.9 ± 12432549.6	1681654.71 ± 4276539.57	> 0.05
<b>WiWoAUC</b>	6488582.14 ± 19849431.8	2757310.06 ± 6992273.45	> 0.05
<b>FT (s)</b>	11.76 ± 4.54	12.24 ± 6.81	> 0.05
<b>WoR</b>	210390.36 ± 637763.45	98219.89 ± 257868.03	> 0.05