

## SUPPLEMENTAL DATA

MEDLINE: portal hypertension OR hepatic venous pressure gradient OR HVPG OR varic\* OR encephalop\* OR ascites OR death) AND (mr OR "magnetic resonance") AND elastog\* AND (liver OR hepatic OR spleen) AND (sensitiv\* OR specif\* OR value OR performance OR accura\* OR predict\*

EMBASE: portal hypertension OR hepatic venous pressure gradient OR HVPG OR varic\* OR encephalop\* OR ascites OR death) AND (mr OR "magnetic resonance") AND elastog\* AND (liver OR hepatic OR spleen) AND (sensitiv\* OR specif\* OR value OR performance OR accura\* OR predict\*

Cochrane Database: "portal hypertension" AND "magnetic resonance"

Scopus: - portal hypertension OR hepatic venous pressure gradient OR HVPG OR varic\* OR encephalop\* OR ascites OR death) AND (mr OR "magnetic resonance") AND elastog\* AND (liver OR hepatic OR spleen) AND (sensitiv\* OR specif\* OR value OR performance OR accura\* OR predict\*

**Appendix 1.** Search strategy by database.

	<b>TP</b>	<b>FP</b>	<b>FN</b>	<b>TN</b>
Abe 2018	37	36	4	131
Ambulge 2018	26	9	10	22
Dillman 2019	12	2	1	29
Guo 2015	7	1	1	1
Han 2019	4	5	2	19
Higuchi 2017	19	23	3	18
Matsui 2018	37	59	4	143
Morisaka 2015	13	2	31	47
Shi 2016	34	13	10	32
Shin 2014	67	17	11	44
Sun 2014	53	9	9	55
Taylor 2018	13	1	0	30

**Appendix 2.** List of 2x2 contingency tables for liver stiffness on MRE for detecting clinically significant portal hypertension.

	<b>TP</b>	<b>FP</b>	<b>FN</b>	<b>TN</b>
Dillman 2019	12	2	1	29
Guo 2015	8	1	0	1
Morisaka 2015	15	1	29	48
Ronot 2014	26	0	12	10
Shi 2016	34	6	10	39
Shin 2014	66	13	12	48
Taylor 2018	12	1	1	30
Yoon 2019	5	3	1	13

**Appendix 3.** List of 2x2 contingency tables for spleen stiffness on MRE for detecting clinically significant portal hypertension.

Author	Year	Patient Selection	Index Test	Reference Standard	Flow and Timing
Abe	2018	1	2	2	1
Ambulge	2018	1	2	3	1
Dillman	2019	1	2	1	1
Guo	2015	1	2	1	3
Han	2019	3	2	2	1
Higuchi	2017	1	2	2	1
Matsui	2018	1	2	1	1
Morisaka	2015	1	3	1	1
Ronot	2014	1	2	1	3
Shi	2016	1	3	2	3
Shin	2014	1	2	2	1
Sun	2014	1	2	1	1
Taylor*	2018	1	2	1	1
Yoon	2019	1	2	1	1

**Appendix 4.** Results of QUADAS-2 assessment for risk of bias in individual studies.

1 = Low Risk; 2 = High Risk; 3 = Unclear, \* = disagreement between readers regarding number on domain/risk of bias