

Online supplementary Table S3. Available measures of diagnostic performance

Author (Year)	Diagnostic performance							Individual measures by type of control		
	Sen	Spe	PPV	NPV	AUC	FP	FN	HC	NM	PM
Gastric cancer only										
Cai et al (2013)	..	..	..	..	X	..	..	X	..	..
Chen et al (2014)	X	X	..	..	X	..	..	..	X	..
Chen et al (2017)	X	X	X	X	..	..	..	U	U	..
Chung et al (2019)	X	X	..	..	X	..	..	U	U	U
Ding et al (2017)	X	X	..	..	X	X	X	X	..	..
Dong et al (2013)	X	X	..	..	X	..	..	X	..	..
Gantuya et al (2019)	X	X	..	..	X	..	..	..	X	..
Gwak et al (2014)	X	..	..	..	X	..	..	..	X	..
He et al (2013)	X	X	X	X	X	..	..	..	..	..
Hoshino et al (2017)	X	X	X	X	..	X	X	X	..	..
Huang et al (2014)	X	X	..	..	X	..	..	..	..	..
Huang et al (2016)	X	X	X	X	X	..	..	X	..	..
Huang et al (2017b)	..	..	..	..	X	..	..	X	..	..
Iwasaki et al (2019)	X	X	..	..	X	..	..	X	..	..
Ji et al (2019)	X	X	..	..	X	..	..	X	..	..
Juan Cai et al (2017)	X	X	..	..	X	..	..	X	X	..
Kaise et al (2011)	X	X	..	..	..	..	..	X	..	..
Kang et al (2008)	X	X	..	..	..	..	..	X	X	X
Kikuchi et al (2011)	X	X	..	..	..	..	..	..	..	..
Kim et al (2012)	X	X	..	..	X	..	..	..	..	..
Kurilovich et al (2016)	X	X	X	X	..	..	..	..	..	..
Li et al (2012)	X	X	..	..	X	..	..	X	..	..
Li et al (2015)	X	X	..	..	X	..	..	X	..	..
Li et al (2017)	X	X	..	..	X	X	X	X	..	..
Li et al (2018a)	X	X	..	..	X	..	..	X	..	..
Li et al (2018b)	X	X	..	..	X	..	..	X	..	X
Lim et al (2014)	X	X	X	X	X	..	..	..	..	..
Lim et al (2015)	X	X	..	..	X	..	..	..	..	..
Lin et al (2018)	X	X	..	..	X	..	..	X	X	..
Liu et al (2011)	..	..	X	X	X	..	..	X	..	..
Liu et al (2016)	X	X	..	..	X	..	..	..	..	..
Liu et al (2018)	..	..	..	..	X	..	..	..	X	..
Meistere et al (2017)	X	X	..	..	X	..	..	U	U	U
Mroczo et al (2009)	X	..	..	..	X	..	..	X	..	..
Ning et al (2018)	X	X	..	..	X	..	..	X	..	..
Oue et al (2009)	X	X	..	..	..	..	..	U	U	..
Pan et al (2016)	X	X	X	X	X	..	..	..	..	..
Park et al (2014)	X	X	X	X	X	..	..	..	..	..
Parvae et al (2019)	X	X	..	..	X	..	..	X	..	..
Qin et al (2019)	..	..	..	..	X	..	..	X	..	..
Qiu et al (2016)	X	X	..	..	X	..	..	X	..	..
Song et al (2012)	X	X	..	..	..	..	..	..	X	..
Su et al (2007)	X	X	X	X	..	X	X	..	X	..
Sun et al (2017)	X	X	..	..	X	..	..	..	X	..
Tsalikidis et al (2013)	X	X	X	X	X	..	..	X	..	..
Wang et al (2006)	X	X	X	X	..	..	..	X	..	..
Wang et al (2018a)	..	..	..	..	X	..	..	X	..	..
Wang et al (2018b)	X	X	X	X	X	X	..	X	..	..
Wang et al (2019)	X	X	X	X	X	..	..	..	X	..
Werner et al (2016)	X	X	..	..	..	..	..	X	..	..
Wu et al (2015)	X	X	..	..	X	..	..	X	..	..
Wu et al (2016)	..	..	..	..	X	..	..	X	..	..
Wu et al (2018)	X	X	X	X	X	..	..	..	X	..
Yaoka et al (2008)	X	X	X	..	..	..	..	X	..	..

Author (Year)	Diagnostic performance							Individual measures by type of control		
	Sen	Spe	PPV	NPV	AUC	FP	FN	HC	NM	PM
Yang et al (2013)	X	X	::	::	X	::	::	X	::	::
Yang et al (2019)	::	::	::	::	X	::	::	::	X	::
Yoon et al (2019)	X	X	X	X	X	::	X	X	::	::
Yun et al (2017)	X	X	X	X	X	::	::	X	X	::
Zayakin et al (2013)	X	X	::	::	X	::	::	X	X	::
Zhang et al (2014a)	X	X	::	::	X	::	::	X	X	::
Zhang et al (2015)	::	::	::	::	X	::	::	::	::	::
Zhang et al (2017)	X	X	::	::	X	X	X	::	::	::
Zhou et al (2015a)	X	X	::	::	X	::	::	X	::	::
Zhou et al (2015b)	X	X	::	::	X	::	::	X	::	::
Zhou et al (2015c)	X	X	::	::	X	::	::	X	::	::
Pancreatic cancer only										
Akita et al (2016)	X	X	X	X	X	::	::	X	::	::
Balasenthil et al (2017)	X	X	::	::	X	::	::	X	X	::
Brand et al (2011)	X	X	::	::	X	::	::	X	X	::
Cao et al (2016)	X	X	::	::	X	::	::	::	X	X
Capello et al (2017)	X	X	::	::	X	::	::	X	X	X
Chung et al (2011)	X	X	::	::	X	::	::	::	::	::
Chung et al (2013)	X	X	::	::	X	::	::	U	X	::
Deng et al (2016)	X	X	X	X	X	X	X	::	::	::
Duraker et al (2007)	X	X	::	::	::	::	::	U	X	U
Firpo et al (2009)	X	X	::	::	X	::	::	X	X	X
Fukutake et al (2015)	X	::	::	::	X	::	::	X	X	::
Gao et al (2014)	X	X	::	::	::	::	::	X	X	::
Gold et al (2006)	X	X	::	::	X	::	::	::	X	::
Gold et al (2013)	X	X	::	::	X	::	::	X	X	::
Groblewska et al (2007)	X	X	::	::	X	::	::	X	::	::
Guo et al (2016)	X	X	::	::	X	::	::	::	X	::
Honda et al (2012)	X	X	::	::	X	::	::	X	X	::
Honda et al (2015)	X	X	::	::	X	::	::	X	::	::
Honda et al (2019)	X	X	::	::	X	::	::	X	::	::
Jiang et al (2004)	X	X	X	::	::	::	::	::	::	::
Kaur et al (2017)	X	X	X	X	X	::	::	X	X	::
Kim et al (2017)	X	X	::	::	X	::	::	X	X	X
Kuwatani et al (2019)	X	X	::	::	X	::	::	X	X	X
LeCalvez-Kelm et al (2016)	X	X	::	::	::	::	X	X	::	::
Lee et al (2019)	X	::	::	::	X	::	::	::	::	::
Liao et al (2009)	X	X	::	::	X	::	::	X	X	::
Liu et al (2012a)	X	X	::	::	X	::	::	X	X	::
Liu et al (2012b)	X	X	X	X	X	::	::	X	X	::
Liu et al (2014)	X	::	::	::	::	::	::	::	::	::
Matsubara et al (2011)	X	X	::	::	X	::	::	X	::	::
Mayerle et al (2018)	X	X	X	X	X	::	::	::	X	::
Mellby et al (2018)	X	X	::	::	X	::	::	X	X	::
Mizuno et al (2019)	X	X	::	::	::	::	::	X	X	::
O'Brien et al (2015)	X	X	::	::	X	X	X	X	::	::
Park et al (2012)	X	X	X	X	X	::	::	::	::	::
Park et al (2017)	X	X	::	::	X	::	::	X	X	::
Peng et al (2019)	X	X	X	X	X	::	::	::	X	::
Poruk et al (2013)	X	X	::	::	X	::	::	::	::	::
Ritchie et al (2015)	X	X	::	::	X	::	::	X	::	::
Rychlikova et al (2016)	X	X	::	::	X	::	::	::	X	::
Sakai et al (2019)	X	X	X	X	::	::	::	X	X	X
Song et al (2019)	::	::	::	::	X	::	::	X	X	X
Tachezy et al (2012)	X	X	::	::	X	::	::	::	X	::
Talar-Wojrowska et al (2010)	X	X	::	::	X	::	::	::	X	::
Tavano et al (2018)	X	X	::	::	X	::	::	X	::	::
Ward et al (2010)	::	::	::	::	X	::	::	::	X	::

Author (Year)	Diagnostic performance							Individual measures by type of control		
	Sen	Spe	PPV	NPV	AUC	FP	FN	HC	NM	PM
Xu et al (2016)	X	X	..	..	X	..	..	X	X	X
Zhang et al (2014b)	X	X	..	..	X	..	..	X	X	..
Zhang et al (2014c)	X	X	..	..	X	..	..	X	X	..
Zhong et al (2019)	X	X	..	..	X	..	..	..	..	..
Zhou et al (2014b)	X	X	..	..	X	..	..	X	X	..
Zhou et al (2018a)	X	X	X	X	X	..	..	X	..	..
Zhou et al (2018b)	X	X	..	..	X	..	..	X	..	..
Oesophageal cancer only										
Bagaria et al (2013b)	X	..	..	X	X	..	..	X	..	..
Bai et al (2017)	X	X	X	X	X	..	..	X	..	..
Bagaria et al (2015)	X	..	..	X	X	..	..	X	..	..
Brockmann et al (2000)	X	X	..	..	..	..	..	U	U	..
Huang et al (2017a)	..	..	..	..	X	..	..	X	..	..
Jia et al (2016)	X	X	..	..	..	..	..	X	..	..
Liao et al (2017)	X	X	..	..	X	..	..	..	..	..
Lukaszewicz-Zajac et al (2017)	X	X	X	X	..	X	X	X	..	..
Lv et al (2016)	..	..	..	..	X	..	..	X	..	..
Pan et al (2019)	X	X	..	..	..	..	..	..	..	..
Peng et al (2016)	X	X	X	X	X	..	..	X	..	..
Sudo et al (2019)	X	X	..	..	X	..	..	X	X	..
Wang et al (2016)	X	X	..	..	X	..	..	X	..	..
Xing et al (2017)	X	X	X	X	X	..	..	..	..	..
Xu et al (2014)	X	X	X	X	..	X	X	X	..	..
Xu et al (2019)	X	X	X	X	X	..	..	X	..	..
Yan et al (2018)	X	X	..	..	X	..	..	X	..	..
Zhang et al (2011)	X	X	X	X	X	..	..	X	..	..
Zhang et al (2012)	X	X	..	..	X	..	..	X	..	U
Zhang et al (2013)	X	X	X	X	X	..	..	X	..	..
Zhang et al (2016)	X	X	..	..	X	X	..	X	..	..
Zhang et al (2018)	X	X	X	X	X	..	..	X	X	..
Zheng et al (2014)	X	X	X	X	X	..	..	X	..	..
Zhou et al (2014a)	X	X	..	..	X	..	..	X	..	..
Biliary tract cancer only										
Deng et al (2017)	X	X	..	..	X	..	..	..	X	..
Leelawat et al (2010)	X	X	X	X	X	..	..	..	X	..
Wang et al (2014)	X	X	..	..	..	..	..	U	U	..
More than one tumour type										
Bagaria et al (2013a)	X	X	X	X	X	..	..	X	..	..
Markar et al (2018)	X	X	..	..	X	..	..	..	..	..
Ren et al (2016)	X	X	..	..	X	..	..	..	..	..
Schneider et al (2005)	X	X	..	..	X	..	..	X	..	..

Abbreviations: AUC: area under the curve; FN: false negatives; FP: false positives; HC: healthy controls; NM: non-malignant conditions; NPV: negative predictive value; PM: pre-malignant conditions; PPV: positive predictive value; Sen: sensitivity; Spe: specificity; U: unclear