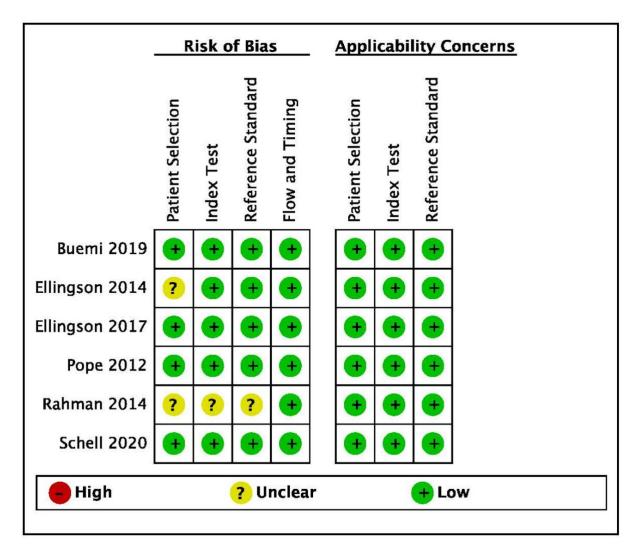
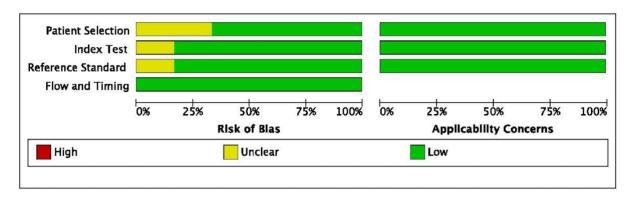
Online Supplemental Data



Online Fig 1. The results of Quality Assessment of Diagnostic Accuracy Studies 2 (QUADAS-2)



Online Fig 2. Bar graph of QUADAS-2 results of bias and applicability

Online Table. Study characteristics

Study	Yea r	Region*	Period	Total N (BEV/No n-BEV)	Methods	Trial	Definition of recurrence of glioblastoma	Patients' age (year)	Medications	ROI type	ADC type	Outcom es
Pope et al. ⁹	201	US	June, 2006 to February , 2007	97/NA	Retrospecti ve	BRAIN	Histologically confirmed first or second relapse	Mean 54 ± 12 (range, 23–79)	BEV alone or in combination with irinotecan	Volume; CEL	$\begin{array}{ccc} The & mean \\ of & the \\ lower & \\ Gaussian \\ curve \\ (ADC_L) & \end{array}$	6-month PFS PFS OS
Rahman et al. ¹⁰	201	US	Decemb er, 2005 to July, 2012	91/NA	Retrospecti	NA	New or increased size of enhancing tumor ([25 % bidimensional products) based on MRI prior to bevacizumab initiation	(range,	BEV alone (n = 47) BEV plus concurrent chemotherapy (n = 44)	Volume; CEL, T2L	The percentage of the lowest, intermedia te, and highest peak of the Gaussian curve (ADC-L, ADC-M, and ADC-H)	PFS OS

Ellingson al. ¹¹	et 201 4	US	Novemb er 15, 2005 to August 31, 2010	89/43	Retrospecti ve	NA	Diagnosed on the basis of clinical data, MRI, and/or histology	BEV: mean 58.0 ± 12 Non-BEV: mean 55.3 ± 9.9	BEV alone or in combination with chemotherapy (carboplatin, irinotecan, etoposide, lomustine)	Volume; CEL	The mean of the upper and lower Gaussian curve (ADC _H and ADC _L)	PFS OS
Ellingson al. ¹²	et 201 7	Netherlan ds	Decemb er 11, 2009 to Novemb er 10, 2011	42/39	Retrospecti	NTR1929	progression after previous chemoradiother apy with temozolomide, documented by MRI with at least one bi- dimensionally measurable target lesion with one diameter of at least 10 mm, visible on two or more axial slices 5 mm apart	BEV: 56.3 ± 1.5 Non-BEV: 56.0 ± 1.4	BEV alone (n = 42)	Volume; CEL	The mean of the upper and lower Gaussian curve (ADC _H and ADC _L)	OS

Buemi et al. ¹³	201 9	Italy	Decemb er, 2009 to July, 2015	17/NA	Retrospecti	NA	the basis of clinical and imaging data	Median 58.2 (range, 40–81)	BEV alone 4) BEV fotemustine 13)	plus	Volume; T2L	CEL,	The mean of the upper and lower Gaussian curve (ADC _H and ADC _L)	PFS OS
Schell et al. 14	202	Netherlan ds	October, 2011 to April, 2020	242/154	Retrospective	EORTC- 26101	Surgically confirmed (operated); must be at least one bi- dimensionally measurable contrast- enhancing lesion with clearly defined margins by MRI scan with minimal diameters of 10mm, visible on 2 or more axial slices 5mm apart, based on MRI scan done	BEV: median 58 (interquart ile range, 51–65) Non-BEV: median 60 (interquart ile range, 52–66)	BEV alone PD: BEV lomustine) 54) BEV lomustine PD: sal treatment a investigator best choice) 188)	t the	Volume; (CEL	The mean of the lower Gaussian curve (ADC _L)	PFS OS

within two
weeks prior to
randomization
(non-operated)

ROI, region-of-interest; ADC, apparent diffusion coefficient; NOS, Newcastle-Ottawa Scale; BEV, patients treated with bevacizumab; Non-BEV, patients treated without bevacizumab; PD, progression disease; CEL, contrast enhanced lesion; T2L, high intensity lesion on T2WI or FLAIR images; PFS, progression-free survival; OS, overall survival

^{*}Region where the participants were treated