Table S1: Quality	Assessment of	f Modeling Studies
Table 51. Quality		i widucing studies

Relevance and	l Cred	ibility	of Mo	deling	Studies fo	r Informir	ng Health	Care D	ecision Ma	ıking						
Study	Rele	vance			Credibi	Credibility										
					Validation			Desig	n Data	Analysis		Repor ting ion		t Conflict of interest		
	Is the po pul ati on rel eva nt?	Ar e any crit ical int erv ent ion s mis sin g?	Ar e an y rel eva nt out co me s mis sin g?	Is the cont ext (setti ngs and circu msta nces) appli cabl e?	Is extern al valida tion of the model suffici ent to make its results credib le for your decisi on?	Is internal verifica tion of the model sufficie nt to make its results credible for your decision ?	Does the model have sufficie nt face validit y to make its results credibl e for your decisio n?	Is the desi gn of the mod el ade quat e for you r deci sion pro ble m?	Are the data used in populati ng the model suitable for your decision problem ?	Were the analysis perfor med using the model adequat e to inform your decision proble m?	Was ther e an adeq uate asses sme nt of the effec ts of unce rtain ty?	Was the repor ting of the mode l adeq uate to infor m your decisi on probl em?	Was the interp retati on of the result s fair and balan ced?	We re ther e any pot enti al con flict s of inte rest ?	If there were poten tial confli cts of intere st, were steps taken to addre ss these ?	
T-664*																
Effectiveness																
[44]	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	N/A	
Grassly et al [45]	Ye s	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	N/A	

Relevance and Credibility of Modeling Studies for Informing Health Care Decision Making															
Study	Rele	vance			Credibi	lity									
					Validation			Desig	n Data	Analysis	Repor ting	Inter pretat ion	Conf inter	lict of est	
	Is the po pul ati on rel eva nt?	Ar e any crit ical int erv ent ion s mis sin g?	Ar e an y rel eva nt out co me s mis sin g?	Is the cont ext (setti ngs and circu msta nces) appli cabl e?	Is extern al valida tion of the model suffici ent to make its results credib le for your decisi on?	Is internal verifica tion of the model sufficie nt to make its results credible for your decision ?	Does the model have sufficie nt face validit y to make its results credibl e for your decisio n?	Is the desi gn of the mod el ade quat e for you r deci sion pro ble m?	Are the data used in populati ng the model suitable for your decision problem ?	Were the analysis perfor med using the model adequat e to inform your decision proble m?	Was ther e an adeq uate asses sme nt of the effec ts of unce rtain ty?	Was the repor ting of the mode l adeq uate to infor m your decisi on probl em?	Was the interp retati on of the result s fair and balan ced?	We re ther e any pot enti al con flict s of inte rest ?	If there were poten tial confli cts of intere st, were steps taken to addre ss these ?
Tsou et al [46]	No	No	No	No	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Can 't ans wer	Not report ed
Mizumoto et al [47]	No	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	N/A
Sasmita et al [48]	No	No	No	No	Yes	No	Yes	Yes	No	No	Yes	Insuff icient infor	Yes	No	N/A

Relevance and Credibility of Modeling Studies for Informing Health Care Decision Making															
Study	Rele	vance			Credibi	Credibility									
					Validation			Desig	n Data	Analysis		Repor ting	Inter pretat ion	Confl inter	lict of est
	Is the po pul ati on rel eva nt?	Ar e any crit ical int erv ent ion s mis sin g?	Ar e an y rel eva nt out co me s mis sin g?	Is the cont ext (setti ngs and circu msta nces) appli cabl e?	Is extern al valida tion of the model suffici ent to make its results credib le for your decisi on?	Is internal verifica tion of the model sufficie nt to make its results credible for your decision ?	Does the model have sufficie nt face validit y to make its results credibl e for your decisio n?	Is the desi gn of the mod el ade quat e for you r deci sion pro ble m?	Are the data used in populati ng the model suitable for your decision problem ?	Were the analysis perfor med using the model adequat e to inform your decision proble m?	Was ther e an adeq uate asses sme nt of the effec ts of unce rtain ty?	Was the repor ting of the mode l adeq uate to infor m your decisi on probl em?	Was the interp retati on of the result s fair and balan ced?	We re ther e any pot enti al con flict s of inte rest ?	If there were poten tial confli cts of intere st, were steps taken to addre ss these ?
												matio n			
Moghadas et al [49]	No	No	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	N/A
Bracis et al [50]	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	N/A

Relevance an	d Credi	ibility	of Mo	deling 8	Studies fo	r Informir	ng Health	Care D	ecision Ma	king					
Study	Rele	vance			Credibi	lity									
					Validat	ion		Desig	n Data	Analysis		Repor ting	Inter pretat ion	Conf inter	lict of est
	Is the po pul ati on rel eva nt?	Ar e any crit ical int erv ent ion s mis sin g?	Ar e an y rel eva nt out co me s mis sin g?	Is the cont ext (setti ngs and circu msta nces) appli cabl e?	Is extern al valida tion of the model suffici ent to make its results credib le for your decisi on?	Is internal verifica tion of the model sufficie nt to make its results credible for your decision ?	Does the model have sufficie nt face validit y to make its results credibl e for your decisio n?	Is the desi gn of the mod el ade quat e for you r deci sion pro ble m?	Are the data used in populati ng the model suitable for your decision problem ?	Were the analysis perfor med using the model adequat e to inform your decision proble m?	Was ther e an adeq uate asses sme nt of the effec ts of unce rtain ty?	Was the repor ting of the mode l adeq uate to infor m your decisi on probl em?	Was the interp retati on of the result s fair and balan ced?	We re ther e any pot enti al con flict s of inte rest ?	If there were poten tial confli cts of intere st, were steps taken to addre ss these ?
Pollmann et al [51]	Ye s	No	No	Yes	No	No	Yes	Yes	Not enough informati on	Yes	Yes	Yes	Yes	Can 't ans wer	Not report ed
Hill et al [52]	Ye s	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	N/A
Gorji et al [53]	No	No	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Can 't	Not report ed

Relevance and	Credi	bility	of Mo	deling S	Studies fo	r Informin	g Health	Care D	ecision Ma	king					
Study	Rele	vance			Credibi	Credibility									
					Validation			Desig	n Data	Analysis		Repor ting	Inter pretat ion	Confl intere	lict of est
	Is the po pul ati on rel eva nt?	Ar e any crit ical int erv ent ion s mis sin g?	Ar e an y rel eva nt out co me s mis sin g?	Is the cont ext (setti ngs and circu msta nces) appli cabl e?	Is extern al valida tion of the model suffici ent to make its results credib le for your decisi on?	Is internal verifica tion of the model sufficie nt to make its results credible for your decision ?	Does the model have sufficie nt face validit y to make its results credibl e for your decisio n?	Is the desi gn of the mod el ade quat e for you r deci sion pro ble m?	Are the data used in populati ng the model suitable for your decision problem ?	Were the analysis perfor med using the model adequat e to inform your decision proble m?	Was ther e an adeq uate asses sme nt of the effec ts of unce rtain ty?	Was the repor ting of the mode l adeq uate to infor m your decisi on probl em?	Was the interp retati on of the result s fair and balan ced?	We re ther e any pot enti al con flict s of inte rest ?	If there were poten tial confli cts of intere st, were steps taken to addre ss these ?
														ans wer	
Alsing et al [54]	Ye s	No	No	Yes	Yes	Not enough informat ion	Yes	Yes	No	Yes	Yes	Yes	Yes	Can 't ans wer	Not report ed
Cost- Effectiveness															

Relevance and Credibility of Modeling Studies for Informing Health Care Decision Making															
Study	Rele	vance			Credibility										
					Validat	ion		Desig	n Data	Analysis		Repor ting	Inter pretat ion	Conf inter	lict of est
	Is the po pul ati on rel eva nt?	Ar e any crit ical int erv ent ion s mis sin g?	Ar e an y rel eva nt out co me s mis sin g?	Is the cont ext (setti ngs and circu msta nces) appli cabl e?	Is extern al valida tion of the model suffici ent to make its results credib le for your decisi on?	Is internal verifica tion of the model sufficie nt to make its results credible for your decision ?	Does the model have sufficie nt face validit y to make its results credibl e for your decisio n?	Is the desi gn of the mod el ade quat e for you r deci sion pro ble m?	Are the data used in populati ng the model suitable for your decision problem ?	Were the analysis perfor med using the model adequat e to inform your decision proble m?	Was ther e an adeq uate asses sme nt of the effec ts of unce rtain ty?	Was the repor ting of the mode l adeq uate to infor m your decisi on probl em?	Was the interp retati on of the result s fair and balan ced?	We re ther e any pot enti al con flict s of inte rest ?	If there were poten tial confli cts of intere st, were steps taken to addre ss these ?
Paltiel et al [56]	No	No	No	No	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	N/A