Section and	Item	Checklist item	Section of	Location where item is reported
Topic			manuscript	
Title	1	Identify the report as	Title	Page1, Correlation between
		a systematic review.		sarcopenia and esophageal cancer:
				a narrative review
Abstract	2			
Background	1			
Objectives		Provide an explicit	Abstract	Page1, " This review examines the
		statement of the		prevalence of sarcopenia in
		main objective(s) or		patients with esophageal cancer, as
		question(s) the		well as the relationship between
		review addresses.		sarcopenia (before and after
				surgery or chemotherapy) and
				prognosis in patients with
				esophageal cancer. Moreover, we
				summarized the potential
				pathogenesis of sarcopenia and
				pharmacologic and non-
				pharmacologic therapies. "
Methods				
Eligibility		Specify the inclusion	Abstract	Page1, " Methods: A narrative
criteria		and exclusion		review was performed in PubMed
		criteria for the		and Web of Science using the
		review.		keywords ("esophageal cancer" or
				"esophageal neoplasm" or
				"neoplasm, esophageal" or
				"esophagus neoplasm" or
				"esophagus neoplasms" or
				"neoplasm, esophagus" or
				"neoplasms, esophagus" or
				"neoplasms, esophageal" or
				"cancer of esophagus" or "cancer
				of the esophagus" or "esophagus
				cancer" or "cancer, esophagus" or
				"cancers, esophagus" or

			"esophagus cancers" or
			"esophageal cancer" or "cancer,
			esophageal" or "cancers,
			esophageal" or "esophageal
			cancers") and ("sarcopenia" or
			"muscular atrophy" or "aging" or
			"senescence" or "biological aging"
			or "aging, biological" or
			"atrophies, muscular" or "atrophy,
			muscular" or "muscular atrophies"
			or "atrophy, muscle" or "atrophies,
			muscle" or "muscle atrophies").
			Studies reporting relationship
			between sarcopenia and
			esophageal cancer were analyzed.
			"
Information	Specify the	Abstract	Page1, " Methods: A narrative
sources	information sources		review was performed in PubMed
	(e.g. databases,		and Web of Science using the
	registers) used to		keywords ("esophageal cancer" or
	identify studies and		"esophageal neoplasm" or
	the date when each		"neoplasm, esophageal" or
	was last searched.		"esophagus neoplasm" or
			"esophagus neoplasms" or
			"neoplasm, esophagus" or
			"neoplasms, esophagus" or
			"neoplasms, esophageal" or
			"cancer of esophagus" or "cancer
			of the esophagus" or "esophagus
			cancer" or "cancer, esophagus" or
			"cancers, esophagus" or
			"esophagus cancers" or
			"esophageal cancer" or "cancer,
			esophageal" or "cancers,
			esophageal" or "esophageal

			cancers") and ("sarcopenia" or "muscular atrophy" or "aging" or "senescence" or "biological aging" or "aging, biological" or "atrophies, muscular" or "atrophy, muscular" or "muscular atrophies" or "atrophy, muscle" or "atrophies, muscle" or "atrophies, between sarcopenia and esophageal cancer were analyzed.
Risk of bias	Specify the methods		not applicable
	used to assess risk of		
	bias in the included		
	studies.		
Synthesis of	Specify the methods		not applicable
results	used to present and		
	synthesise results.		
Results	T		
Included	Give the total		not applicable
studies	number of included		
	studies and		
	participants and		
	summarise relevant		
	characteristics of		
	studies		
Synthesis of	Present results for	Abstract	Page2, "Results: The results of the
results	main outcomes,		review suggest that the average
	preferably indicating		prevalence of sarcopenia in
	the number of		esophageal cancer was 46.3 % ±
	included studies and		19.6% ranging from 14.4% to 81%
	participants for		and sarcopenia can be an important
	each. If meta-		predictor of poor prognosis in
	analysis was done,		patients with esophageal cancer.

		41		Detients with assubsered
		report the summary		Patients with esophageal cancer
		estimate and		can suffer from sarcopenia due to
		confidence/credible		their nutritional deficiencies,
		interval. If		reduced physical activity,
		comparing		chemotherapy and the effects of
		groups, indicate the		certain inflammatory factors and
		direction of the		pathways. When classic diagnostic
		effect (i.e. which		values for sarcopenia such as
		group is favoured).		skeletal muscle index (SMI) are
				not available clinically, it is also
				feasible to predict esophageal
				cancer prognosis using simpler
				metrics, such as calf circumference
				(CC), five-count sit-up test (5-
				CST), six-minute walk distance
				(6MWD), etc. "
Discussion				
Limitations of		Provide a brief		not applicable
evidence		summary of the		
		limitations of the		
		evidence included in		
		the review (e.g.		
		study risk of bias,		
		inconsistency and		
		imprecision).		
Interpretation		Provide a general	Abstract	Page2, " Conclusions: Identifying
		interpretation of the		the potential mechanism of
		results and important		sarcopenia in patients with
		implications.		esophageal cancer and
				implementing appropriate
				interventions, may hold the key to
				improving the prognosis of these
				patients. "
Introduction	ı	1	L	1
Rationale	3	Describe the	Introduction	Page2, the introduction section
		l .		

Objectives	4	rationale for the review in the context of existing knowledge.  Provide an explicit	Introduction	introduces the relevant background about esophageal cancer and sarcopenia and the purpose of this review  Page4, "In this comprehensive
		statement of the		review, we delve into various
		objective(s) or		aspects related to sarcopenia in
		question(s) the		patients with esophageal cancer,
		review addresses.		including its incidence, prognostic
				value, the interplay between
				chemotherapy and sarcopenia, the underlying mechanisms of
				sarcopenia, therapeutic
				approaches, and alternative
				methods for predicting sarcopenia.
				Our aim is to critically evaluate the
				combined prognostic impact of
				factors associated with esophageal
				cancer and sarcopenia, drawing
				practical conclusions to support the
				multidisciplinary management of
				patients with esophageal cancer
				and offering fresh insights for the
				development of therapeutic
				regimens targeting this disease. "
Methods			T	<u> </u>
Eligibility	5	Specify the inclusion	Abstract	Page1, "Methods: A narrative
criteria		and exclusion		review was performed in PubMed
		criteria for the		and Web of Science using the
		review and how		keywords ("esophageal cancer" or
		studies were grouped		"esophageal neoplasm" or
		for the syntheses.		"neoplasm, esophageal" or
				"esophagus neoplasm" or
				"esophagus neoplasms" or
				"neoplasm, esophagus" or

				(4 1 1 1 N
				"neoplasms, esophagus" or
				"neoplasms, esophageal" or
				"cancer of esophagus" or "cancer
				of the esophagus" or "esophagus
				cancer" or "cancer, esophagus" or
				"cancers, esophagus" or
				"esophagus cancers" or
				"esophageal cancer" or "cancer,
				esophageal" or "cancers,
				esophageal" or "esophageal
				cancers") and ("sarcopenia" or
				"muscular atrophy" or "aging" or
				"senescence" or "biological aging"
				or "aging, biological" or
				"atrophies, muscular" or "atrophy,
				muscular" or "muscular atrophies"
				or "atrophy, muscle" or "atrophies,
				muscle" or "muscle atrophies").
				Studies reporting relationship
				between sarcopenia and
				esophageal cancer were analyzed.
				n .
Information	6	Specify all	Abstract	Page1, "Methods: A narrative
sources		databases, registers,		review was performed in PubMed
		websites,		and Web of Science using the
		organisations,		keywords ("esophageal cancer" or
		reference lists and		"esophageal neoplasm" or
		other sources		"neoplasm, esophageal" or
		searched or		"esophagus neoplasm" or
		consulted to identify		"esophagus neoplasms" or
		studies. Specify the		"neoplasm, esophagus" or
		date when each		"neoplasms, esophagus" or
		source was last		"neoplasms, esophageal" or
		searched or		"cancer of esophagus" or "cancer
		consulted.		of the esophagus" or "esophagus
		<u> </u>	<u>l</u>	1 0 1 0

				cancer" or "cancer, esophagus" or "cancers, esophagus" or
				"esophagus cancers" or
				"esophageal cancer" or "cancer,
				esophageal" or "cancers,
				esophageal" or "esophageal
				cancers") and ("sarcopenia" or
				"muscular atrophy" or "aging" or
				"senescence" or "biological aging"
				or "aging, biological" or
				"atrophies, muscular" or "atrophy,
				muscular" or "muscular atrophies"
				or "atrophy, muscle" or "atrophies,
				muscle" or "muscle atrophies").
				Studies reporting relationship
				between sarcopenia and
				esophageal cancer were analyzed.
Search	7	Present the full	Abstract	Page1, "Methods: A narrative
strategy		search strategies for		review was performed in PubMed
		all databases,		and Web of Science using the
		registers and		keywords ("esophageal cancer" or
		websites, including		"esophageal neoplasm" or
		any filters and limits		"neoplasm, esophageal" or
		used		"esophagus neoplasm" or
				"esophagus neoplasms" or
				"neoplasm, esophagus" or
				"neoplasms, esophagus" or
				"neoplasms, esophageal" or
				"cancer of esophagus" or "cancer
				of the esophagus" or "esophagus
				cancer" or "cancer, esophagus" or
				"cancers, esophagus" or
				"esophagus cancers" or
				"esophageal cancer" or "cancer,

Selection	8	Specify the methods	esophageal" or "cancers, esophageal" or "esophageal cancers") and ("sarcopenia" or "muscular atrophy" or "aging" or "senescence" or "biological aging" or "aging, biological" or "atrophies, muscular" or "atrophy, muscular" or "muscular atrophies" or "atrophy, muscle" or "atrophies, muscle" or "atrophies, muscle" or "muscle atrophies"). Studies reporting relationship between sarcopenia and esophageal cancer were analyzed.
process		used to decide	
		whether a study met the inclusion criteria	
		of the review,	
		including how many	
		reviewers screened	
		each record	
		and each report	
		retrieved, whether	
		they worked	
		independently, and if	
		applicable, details of	
		automation tools	
		used in the process.	
Data	9	Specify the methods	not applicable
collection		used to collect data	
process		from reports,	
		including how many	
		reviewers collected	

		data from each	
		report, whether they	
		worked	
		independently, any	
		processes for	
		obtaining or	
		confirming data	
		from study	
		investigators, and if	
		applicable, details of	
		automation tools	
		used in the	
		process.	
Data items	10a	List and define all	not applicable
		outcomes for which	
		data were sought.	
		Specify whether all	
		results that were	
		compatible with	
		each outcome	
		domain in each	
		study were sought	
		(e.g. for all	
		measures, time	
		points, analyses),	
		and if not, the	
		methods used to	
		decide which results	
		to collect.	
	10b	List and define all	not applicable
		other variables for	11
		which data were	
		sought (e.g.	
		participant and	
		intervention	
		mici vention	

		ala a un a 4! t ! -	
		characteristics,	
		funding sources).	
		Describe any	
		assumptions made	
		about any missing or	
		unclear information.	
Study risk of	11	Specify the methods	not applicable
bias		used to assess risk of	
assessment		bias in the included	
		studies, including	
		details of the tool(s)	
		used, how many	
		reviewers assessed	
		each	
		study and whether	
		they worked	
		independently, and if	
		applicable, details of	
		automation tools	
		used in the process.	
Effect	12	Specify for each	not applicable
measures		outcome the effect	
		measure(s) (e.g. risk	
		ratio, mean	
		difference) used in	
		the synthesis or	
		presentation of	
		results.	
Synthesis	13a	Describe the	not applicable
methods	13a	processes used to	not applicable
memous		decide which studies	
		were eligible for	
		each synthesis (e.g.	
		tabulating the study	
		intervention	

	characteristics and comparing against the planned groups for each synthesis (item #5)).	
13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	not applicable
13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	not applicable
13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical	not applicable

	I		
		heterogeneity, and	
		software package(s)	
		used.	
	13e	Describe any	not applicable
		methods used to	
		explore possible	
		causes of	
		heterogeneity among	
		study results (e.g.	
		subgroup analysis,	
		meta-regression).	
	13f	Describe any	not applicable
		sensitivity analyses	
		conducted to assess	
		robustness of the	
		synthesized results.	
Reporting bias	14	Describe any	not applicable
assessment		methods used to	
		assess risk of bias	
		due to missing	
		results in a synthesis	
		(arising from	
		reporting biases).	
Certainty	15	Describe any	not applicable
assessment		methods used to	
		assess certainty (or	
		confidence) in the	
		body of evidence for	
		an outcome.	
Results	l		
Study	16a	Describe the results	not applicable
selection		of the search and	
		selection process,	
		from the number of	
		records identified in	
	1	1	

		the search to the		
		number of studies		
		included in		
		the review, ideally		
		using a flow		
		diagram.		
	16b	Cite studies that		not applicable
		might appear to meet		
		the inclusion criteria,		
		but which were		
		excluded, and		
		explain why they		
		were excluded.		
Study	17	Cite each included		Page28, Table1,2,3
characteristics		study and present its		
		characteristics.		
Risk of bias in	18	Present assessments		not applicable
studies		of risk of bias for		
		each included study.		
Results of	19	For all outcomes,	2. Prevalence	Page5, " Among the included
individual		present, for each	of sarcopenia	studies (Table 1), the average
studies		study: (a) summary	in esophageal	prevalence of sarcopenia in
		statistics for each	cancer	esophageal cancer was found to be
		group (where		46.3% ± 19.6%. "
		appropriate) and (b)	3. The role of	Page 5, "Numerous studies have
		an effect estimate	sarcopenia in	demonstrated that preoperative
		and its precision	the prognosis	sarcopenia not only increases the
		(e.g.	of surgical	risk of complications such as
		confidence/credible	treatment of	pulmonary issues and mortality in
		interval), ideally	esophageal	older adults, but also leads to
		using structured	cancer	extended hospital stays and
		tables or plots.		reduced survival rates. Numerous
				studies have demonstrated that
				preoperative sarcopenia not only
				increases the risk of complications

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	such as pulmonary issues and
	mortality in older adults, but also
	leads to extended hospital stays
	and reduced survival rates."
	Page 6, "Apart from its impact on
	surgical complications,
	preoperative sarcopenia has also
	been linked to long-term
	prognosis." is a presentation of the
	results;
4.	Page 7," 4.1 Chemotherapy-
Chemotherapy	induced sarcopenia"
and	Page 9," Table 2 lists the studies
sarcopenia	related to the effect of sarcopenia
sarcopema	on chemotherapy in esophageal
	cancer. Based on the a
	forementioned studies, it is evident
	that sarcopenia independently
	indicates reduced overall survival,
	disease-free survival, and
	recurrence-free survival in patients
	with esophageal cancer who
	Furthermore, sarcopenia increases the incidence of toxic reactions,
	mucositis, fever, and lymphopenia,
	consequently leading to
	perioperative complications, an
	elevated risk of postoperative
	recurrence rates, and postoperative
	mortality. "
5. Potential	Page9, each subheading is a result
mechanisms	section
of esophageal	Page9, 5.1 Malnutrition

				B 10 50 1 1 2
			cancer-	Page 10, 5.2 Lack of exercise
			associated	lifestyle
			sarcopenia	Page10, 5.3 Inflammation
				Page10, 5.4 Chemotherapy causes
				sarcopenia
				Page11, 5.5 Other signaling
				pathways
			6. Predicting	Page 12," Besides assessing the
			esophageal	presence of sarcopenia according
			cancer	to diagnostic criteria and gauging
			prognosis with	its prognostic significance,
			a simple	researchers have been particularly
			indicator in	intrigued by the extent of skeletal
			the diagnosis	muscle mass reduction during
			of sarcopenia	treatment or post-surgery. In
				instances where standardized tests
				fail to meet the criteria for
				diagnosing sarcopenia, employing
				alternative, efficient methods like
				HGS, 5-SCT, GS, 6MWD, and CC
				to predict prognosis is highly
				desirable. "
			7. Treatment	7.1 non-pharmacological treatment
			of sarcopenia	7.2 Pharmacologic Treatment
			8. Conclusions	the section "8. Conclusions and
			and future	future perspectives" presents the
			perspectives	conclusions and discussion of the
			-	entire review.
Results of	20a	For each synthesis,		not applicable
syntheses		briefly summarise		
		the characteristics		
		and risk of bias		
		among contributing		
		studies.		
	20b	Present results of all		not applicable
	1			

		statistical syntheses	
		conducted. If meta-	
		analysis was done,	
		present for each the	
		summary estimate	
		and its precision	
		(e.g.	
		confidence/credible	
		interval) and	
		measures of	
		statistical	
		heterogeneity. If	
		comparing groups,	
		describe the	
		direction of the	
		effect.	
	20c	Present results of all	not applicable
		investigations of	
		possible causes of	
		heterogeneity among	
		study results.	
	20d	Present results of all	not applicable
		sensitivity analyses	
		conducted to assess	
		the robustness of the	
		synthesized results.	
Reporting	21	Present assessments	not applicable
biases		of risk of bias due to	11
		missing results	
		(arising from	
		reporting biases) for	
		each synthesis	
		assessed.	
Certainty of	22	Present assessments	not applicable
evidence		of certainty (or	

	1			
		confidence) in the		
		body of evidence for		
		each outcome		
		assessed.		
Discussion				
Discussion	23a	Provide a general	2. Prevalence	Page5, " However, the prevalence
		interpretation of the	of sarcopenia	of sarcopenia in patients with
		results in the context	in esophageal	esophageal cancer varies
		of other evidence.	cancer	considerably due to differences in
				study populations, age, diagnostic
				methods, and criteria, and the
				criteria used to determine the
				prevalence of sarcopenia varied
				among the studies in this review, as
				shown in Table 1, with prevalence
				rates ranging from 14.4% to 81%.
				"
				Page5, " Despite discrepancies in
				diagnostic criteria and methods,
				sarcopenia was frequently
				diagnosed during preoperative
				examinations in patients with
				esophageal cancer. Given that
				esophageal cancer exhibits the
				highest prevalence of sarcopenia
				among gastrointestinal tumors, it is
				imperative to allocate greater
				attention to this condition in
				esophageal cancer patients. "
			5. Potential	Page9, this section is discussing
			mechanisms	the possible causes of sarcopenia.
			of esophageal	
			cancer-	
			associated	
			sarcopenia	

		6 Due 11 - 41	Docato "Docidoin- d
		6. Predicting	Page12, "Besides assessing the
		esophageal	presence of sarcopenia according
		cancer	to diagnostic criteria and gauging
		prognosis with	its prognostic significance,
		a simple	researchers have been particularly
		indicator in	intrigued by the extent of skeletal
		the diagnosis	muscle mass reduction during
		of sarcopenia	treatment or post-surgery. In
			instances where standardized tests
			fail to meet the criteria for
			diagnosing sarcopenia, employing
			alternative, efficient methods like
			HGS, 5-SCT, GS, 6MWD, and CC
			to predict prognosis is highly
			desirable. "
23b	Discuss any	2. Prevalence	Page5, " However, the prevalence
	limitations of the	of sarcopenia	of sarcopenia in patients with
	evidence included in	in esophageal	esophageal cancer varies
	the review.	cancer	considerably due to differences in
			study populations, age, diagnostic
			methods, and criteria, and the
			criteria used to determine the
			prevalence of sarcopenia varied
			among the studies in this review, as
			shown in Table 1, with prevalence
			rates ranging from 14.4% to 81%.
			"
			Page5, " Despite discrepancies in
			diagnostic criteria and methods,
			sarcopenia was frequently
			diagnosed during preoperative
			examinations in patients with
			esophageal cancer. Given that
			esophageal cancer exhibits the
			highest prevalence of sarcopenia

				among gastraintastinal tumors it is
				among gastrointestinal tumors, it is
				imperative to allocate greater
				attention to this condition in
				esophageal cancer patients. "
			7. Treatment	Page15, "Despite the existence of
			of sarcopenia	studies showcasing the positive
				effects of the aforementioned
				drugs in sarcopenia patients, their
				efficacy remains a subject of
				controversy. Furthermore, the
				optimal dosage and potential side
				effects of these drugs require
				further investigation through
				additional studies. The
				pharmacological treatment of
				sarcopenia necessitates more
				extensive exploration and clinical
				trials to scientifically evaluate the
				efficacy of these drugs. "
			8. Conclusions	Page15, "To date, the majority of
			and future	studies investigating sarcopenia in
			perspectives	esophageal cancer patients have
				primarily relied on retrospective
				approaches, severely constraining
				their ability to comprehensively
				depict patient populations.
				Consequently, our understanding
				of the underlying mechanisms
				linked to heightened adverse
				outcomes remains limited"
	23c	Discuss any		not applicable
		limitations of the		
		review processes		
		used.		
	23d	Discuss implications	2. Prevalence	Page5, " Despite discrepancies in
<u> </u>	23 <b>u</b>	Discuss implications	2. Trevalence	1 4505, Despite discrepancies in

0 1 1 2		
of the results for	of sarcopenia	diagnostic criteria and methods,
practice, policy, and	in esophageal	sarcopenia was frequently
future research.	cancer	diagnosed during preoperative
		examinations in patients with
		esophageal cancer. Given that
		esophageal cancer exhibits the
		highest prevalence of sarcopenia
		among gastrointestinal tumors, it is
		imperative to allocate greater
		attention to this condition in
		esophageal cancer patients. "
	3. The role of	Page 6, "Consequently, the routine
	sarcopenia in	evaluation and accurate diagnosis
	the prognosis	of sarcopenia in older adults has
	of surgical	been linked to long-term
	treatment of	prognosis. diagnosis of sarcopenia
	esophageal	in esophageal cancer patients can
	cancer	assist clinicians in tailoring
		treatment plans, providing timely
		nutritional support, and ultimately
		improving short-term and long-
		term patient outcomes, as well as
		the overall prognosis of esophageal
		cancer."
		Page 7," The prognosis of
		postoperative muscle loss in
		esophageal cancer has received
		limited attention and the timing of
		postoperative detection of
		sarcopenia varies considerably
		across studies, but each of these
		studies consistently demonstrates a
		substantial association between
		postoperative muscle loss or
		reduced skeletal muscle mass and
		reduced skeretar musere mass and

	poor prognosis, and more
	prospective cohort studies are
	needed to demonstrate this
	association."
4.	Page 9," Early implementation of
Chemotherapy	appropriate nutritional
and	intervention prior to treatment may
sarcopenia	improve prognosis"
6. Predicting	Page12, "Besides assessing the
esophageal	presence of sarcopenia according
cancer	to diagnostic criteria and gauging
prognosis with	its prognostic significance,
a simple	researchers have been particularly
indicator in	intrigued by the extent of skeletal
the diagnosis	muscle mass reduction during
of sarcopenia	treatment or post-surgery. In
	instances where standardized tests
	fail to meet the criteria for
	diagnosing sarcopenia, employing
	alternative, efficient methods like
	HGS, 5-SCT, GS, 6MWD, and CC
	to predict prognosis is highly
	desirable. "
7. Treatment	Page15, "Despite the existence of
of sarcopenia	studies showcasing the positive
	effects of the aforementioned
	drugs in sarcopenia patients, their
	efficacy remains a subject of
	controversy. Furthermore, the
	optimal dosage and potential side
	effects of these drugs require
	further investigation through
	additional studies. The
	pharmacological treatment of
	sarcopenia necessitates more

extensive exploration and clinical trials to scientifically evaluate the efficacy of these drugs. " 8. Conclusions Page 15, "Hence, it is imperative to and future conduct more prospective perspectives evaluations on sarcopenia in individuals afflicted with cancer. esophageal These evaluations will enable us to establish a more profound comprehension of the correlation between sarcopenia, characterized by the depletion of skeletal muscle mass or strength, and adverse outcomes or post-treatment complications. Furthermore, they will facilitate the development of precise and personalized interventions based on the findings, thereby enhancing outcomes in high-risk populations[114]. By performing of requisite assessments sarcopenia in esophageal cancer patients, we can devise optimal treatment strategies that rectify the sarcopenic condition prior surgery or chemotherapy through nutritional support and exercise, adjuvant therapy, and meticulous postoperative monitoring[115]. comprehensive approach aims to augment the quality of life

> for patients with esophageal cancer while simultaneously alleviating

				the healthcare burden on society."
Other informa	ation			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.		not applicable
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.		not applicable
	24c	Describe and explain any amendments to information provided at registration or in the protocol.		not applicable
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Funding	Page17, "This work was supported by Natural Science Foundation General Program of Hunan Province (2022JJ40830), Natural Science Foundation General Program of Changsha City (kq2014290) and National Multidisciplinary Cooperative Diagnosis and Treatment Capacity Building Project for Major Diseases (Lung Cancer, grant number: z027002). "
Competing interests	26	Declare any competing interests	Competing interests	Page17,"The authors declare that they have no competing interests."

		of review authors.		
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	not applicable	