Authors/Y ear	Article Title	Type of study	MERS QI	COR EQ	Study Aim	Methodology	Key findings	Proposed solutions/conclusions
Abbasi et al. 2014	Moral Distress in Physicians Practicing in Hospitals Affiliated to Medical Sciences Universities	Quantitati	15.5	NA	"This study aimed to determine the status of moral distress in physicians practicing in hospitals affiliated to Medical Sciences Universities in Tehran."	"This cross-sectional study was carried out using the Standard Hamric Scale to collect data after modification and evaluation of its reliability and validity. A total of 399 physicians responded to the scale. Data analysis was performed using descriptive and correlation statistics with	composite score of moral distress were 2.14 ± 0.80 and 2.94 ± 2.38, respectively. A significant negative correlation existed between age and frequency and composite score (r =	"Physicians may encounter moral distress during their practice; therefore, the common causes of distress should be identified in order to prevent its occurrence."

						respect to the variables."	experience and composite score (r = -0.11, P = 0.04). Moral distress composite score in adults specialists was higher than pediatricians (P = 0.002), but lower in physicians participated in medical ethics training courses compared to those not participated."	
Aguilera et al. 2014	Moral distress in pediatric hematology/onc ology physicians	Quantitati	NA	NA	"To quantify moral distress in pediatric Hematology- Oncology physicians"	"Using SurveyMonkey. com, we surveyed practicing pediatric hematology/onc ology attendings and fellows. We used the moral distress survey revised version. Respondents answered 21 questions, on a scale of 0 to 4, pertaining to the		

			intensity and	validated higher	levels of moral
			frequency of	moral distress score	distress."
			moral distress in	in practitioners with	
			their daily	less clinical	
			medical	experience.	
			practice. Moral	Physician age was	
			distress scores	negatively	
			were calculated	correlated with	
			by multiplying	moral distress scores	
			intensity by	associated with	
			frequency for	quetions with the	
			each question	highest total scores	
			and adding the	were: to watch	
			scores from all	patient suffer due to	
			questions for	lack of provider	
				continuity, decrease	
			Significance	patient care quality	
			was determined	due to poor team	
			_	communication, and	
			linear model,	continue life	
			Wilcoxon rank-	support. The lowest	
			sum, Pearson's	scores for moral	
			correlation	distress were:	
			coefficient, or	providing care that	
			the Spearman	does not relieve a	
			correlation	child's suffering	
			coefficient"	because of fear of	
				increasing doses of	
				pain medication and	
				administration of	
				sedatives to an	
				unconscious child	

							that could hasten the child's death."	
Alwadaei et al. 2019	Waiting for a miracle or best medical practice? Endoflife medical ethical dilemmas in Bahrain	Qualitativ	NA	18	"In Bahrain, maintaining life support at all costs is a cultural value considered to be embedded in the Islamic religion. We explore endof-life decision making for brain dead patients in an Arab country where medical cultures are dominated by Western ideas and the lay culture is Eastern."	"In-depth interviews were conducted from February to April 2018 with 12 Westerneducated Bahraini doctors whose medical practice often included end-of-life decision making. Discussions were about who should make withdrawal of life support decisions, how decisions are made and the context for decision making. To develop results, we used the inductive method of thematic analysis."	and no legal clarity about medical	"End-of-life decisions challenge Western-trained doctors in Bahrain as they grapple with aligning respect for local culture with their training in the ethical practice of Western medicine."

							and clinical decision making idiosyncratic regarding end-oflife care for brain dead patients. Participants referred to contrasts between their current practice and previous work in other countries, recognising the influences of religious and cultural dimensions on their practice in Bahrain."	
Aultman & Wurzel 2014	Recognizing and Alleviating Moral Distress Among Obstetrics and Gynecology Residents	Qualitativ e	NA	18	"We examined how moral and nonmoral judgments about patients are formulated, confirmed, or modified and how moral distress may be alleviated among obstetrics-gynecology residents."	"Three focus groups, guided by open-ended interview questions, were conducted with 31 obstetrics-gynecology residents from 3 academic medical institutions in northeast Ohio. Each focus group contained	"Our participants struggled with 3 types of patients perceived as difficult: (1) patients with chronic pain, including patients who abuse narcotics; (2) demanding and entitled patients; and (3) irresponsible patients. Difficult clinical encounters with such patients contribute to	research on

						7 to 14 participants and was recorded. Two investigators independently coded and thematically analyzed the transcribed data."	unalleviated moral distress for residents and negative, and often inaccurate, judgment made about patients. The residents reported that they were able to prevent stigmatizing judgments about patients by keeping an open mind or recognizing the particular needs of patients, but they still felt unresolved moral distress."	development as well as the recognition and alleviation of moral distress."
Bader 2018	Trainee Moral Distress in Capacity Consultations for End-of-Life Care	Qualitativ	NA	1	"The following cases illustrate different aspects of the psychiatric consultant's emotional experience that can arise from these complex questions."	"Presents case reports of an 80-year-old male with a history of end-stage renal disease on hemodialysis (HD), interstitial lung disease, and no prior psychiatric history, was hospitalized for pneumonia."	"Moral distress has been studied across disciplines, and found to be particularly present in clinical psychiatry. Psychiatrists are entrusted with one of the highest responsibilities: to assess someone's state of mind and their risk of harm to	"For decisions surrounding end-of-life care, psychiatric assessment can help medical care proceed in a way that is consistent with the person's values as well as with the ethical principles of the profession. Given the right circumstances, instead of being plagued with

						40-year-old women with a history of an aggressive lymphoma and bipolar disorder, was admitted for sepsis. After a few days, she started refusing all care, and kept repeating "let me die, let me die."	self or others. With this responsibility comes the expectation that the assessments will be definitive, whereas in reality, they are a process, complex in nature, and inherently uncertain." "Moral distress can be counteracted in several ways. On an individual level, a clinician can develop a sense of moral resilience, which occurs when one has considered the complexity of a situation, including ethical, psychological, social, and moral components."	moral distress about the decision, the clinician can be left with a sense of moral fidelity."
Beck et al. 2020	Moral distress in pediatric residents and pediatric hospitalists: sources and	Quantitati ve	11.5	NA	"Moral distress is increasingly identified as a major problem affecting healthcare professionals, but it is poorly characterized	"Cross-sectional survey from January through March 2019 of pediatric residents and		"Pediatric residents and hospitalists report experiencing moral distress from a variety of patient-, team-, and system-level sources,

association wit	h	among pediatricians.	hospital	95% confidence	and this distress is
burnout		Our objective was to	medicine	interval [CI],	associated with
		assess the sources of	attending	2.9–7.5) and	burnout."
		moral distress in	physicians	composite scores	
		residents and pediatric		(residents: $M = 97.6$	
		hospitalist attendings	free-standing	vs hospitalists: M =	
		and to examine the	children's	83.0;	
		association of moral	hospitals. Moral	difference: 14.6,	
		distress with reported	distress was	95% CI, 5.7–23.5)	
		burnout."	measured using	than hospitalists.	
			the Measure of	The most frequent	
			Moral Distress	source of moral	
			for Healthcare	distress was "having	
			Professionals	excessive	
			(MMD-HP).	documentation	
			Burnout was	requirements that	
			measured using	compromise patient	
			2 items adapted	care," and the most	
			from the	intense source of	
			Maslach	moral distress was	
			Burnout	"be[ing] required to	
			Inventory."	work with abusive	
				patients/family	
				members who are	
				compromising	
				quality of care."	
				Significantly higher	
				mean MMD-HP	
				composite scores	
				were observed	
				among participants	
				reporting that they	

							felt burned out at least once per week (M = 114.6 vs M = 82.3; difference: 32.3, 95% CI, 23.5–41.2)."	
Berger et al. 2019	Self-Inflicted Moral Distress: Opportunity for a Fuller Exercise of Professionalism	Comment	NA	NA	"We contend that some experiences of moral distress are self-inflicted due to one's under-assertion of professional authority, and these are potentially avoidable."	NA	"Individual-level moral distress may be self-inflicted in a number of ways. 1. Some clinicians' understandings of what is either permitted or obligated under established norms of professional authority may be limited. 2. An individual's ability to assert his or her recognized professional authority may be hampered due to limited skills in communicating with patients and families. 3. The individual is either ignorant of, or unwilling to,	"Individuals can - Better familiarize themselves with institutional policies and distinguish these from institutional "folklore" and common practice Improve their knowledge of relevant state laws and regulations, to both self-educate and to position themselves to offer peer support Exercises in self- reflective practices, training to recognize and mitigate countertransference, and skill building in communication techniques - Both individuals and groups of professionals should

							leverage institutional resources that, if appropriately accessed, would mitigate the morally distressing circumstance."	view institutional power brokers as primarily responsible for ensuring institutional integrity and supporting the exercise of professionalism. Reciprocally, leadership at the team, unit, and institutional level must be committed to a just culture, not merely in word but in deed."
Brown 2019	Reconceiving Decisions at the End of Life in Pediatrics: decision-making as a form of ritual	Comment	NA	NA	"This essay presents anthropological perspectives on the goals of healing and healing rituals, providing examples in which the recipient of healing was not the patient but the family or community. Drawing on this scholarship, the author reconceives decision-making at the end of life in pediatrics as a form of healing ritual,	NA	"Clinicians can be empowered—by their own moral imagination and with the support of the moral community of colleagues and supervisors—to view decision—making through a different lens, one with benefits for families as much as for patients. This is a paradigm shift—the process itself is	"If "conflict [between clinicians and families] exposes the question, implicitly or explicitly, of who or what is in control of deciding what to do", then healing rituals and practices might be seen as ways to push for change by shifting existing balances of power. I have demonstrated here that the process of decision-making itself carries some

					explores how this perspective might help clinicians to reframe situations that provoke moral and empathic distress, and analyzes the ethical implications of these arguments."		now valued for its long-term benefit to the family, regardless of the actual decision it yields—and it meaningfully alters the way language is used." Suffering and "quality of life" are also subjective terms. This framework prioritizes the parents' assessments in this regard over that of clinicians."	elements akin to healing rituals in traditional medicine, particularly when we consider the family as a potential recipient of healing effects."
Brown- Saltzman 2013	The Gift of Voice	Comment	NA	NA	"Initial writings and moral distress research focused on nursing, however, it soon became clear that others in healthcare also experienced moral distress. The narratives discussed in this commentary show this variation not only in the	"Twelve narratives have been given to us, relaying various experiences of moral distress in healthcare professionals."	"Other important themes drawn out here are: isolation, powerlessness, failure, regret, undermined potential and the way feelings are experienced. It is also noted that despite the pain and angst, there is a sense of gratitude in	"The narratives discussed in this commentary show this variation not only in the authors' multiplicity of disciplines (psychologists, nurses, an ethicist, and physicians), but also in their workplace environments

					authors' multiplicity of disciplines (psychologists, nurses, an ethicist, and physicians), but also in their workplace environments (prisons, hospitals, and homecare) and their roles, from students to well accomplished professionals."		these stories. They touch our own woundedness, remind us of our own resiliency and give us hope for the redemptive power of the experience and reflection."	(prisons, hospitals, and homecare) and their roles, from students to well accomplished professionals. In other words no one is immune. By looking through the lens of time the author shows that the experience of moral distress is not isolated in time, but in fact continues to be lived over time."
Bruce et al. 2015	A qualitative study exploring moral distress in the ICU team: the importance of unit functionality and intrateam dynamics	Qualitativ e	NA	26	"Our study objectives were to determine the key sources of MD in diverse critical care professionals and how they manage it in the context of team-based models."	"29 ICU team members of diverse professional backgrounds interviewed between March and July 2013."	"All members of the ICU team reported experiencing moral distress. Intrateam discordance served as a key source of distress for all healthcare disciplines."	"1. When clinicians alter the content of their goals-of-care conversations with patients or families to accommodate intrateam discordance (as part of the "pasde-deux"), subsequent decisions regarding medical care may be compromised. 2. When different team members respond differently to the same case— with nurses becoming

								more emotionally invested and physicians becoming more withdrawn—communication gaps are likely to occur at critical moral distress junctures"
Brummett 2020	The Baffling Babble of Brain Injury	Case study	NA	NA	"This paper presents a dialogue that demonstrates the "baffling babble of brain injury", a phenomenon that can occur when physicians' medical information is "either exceedingly vague or delivered through terminology that can be misinterpreted by surrogates."	study formulated from	"Brain babble is a form of miscommunication in the doctor-patient relationship that can significantly contribute to surrogate treatment decisions that confound clinicians and create considerable moral distress."	- "Genuine clinical uncertainty drives the hesitation to provide specific percentages for prognosis, and physicians who openly own this uncertainty are considered calming by most families who accept the uncertainty once it was stated." - "One helpful strategy for communicating prognosis about neurological recovery is to describe the best case, worst case, and most likely case, a method that gives families a range of expectations while accounting for

								uncertainty." - "Emphasizing the role of the surrogate as one who exercises substituted judgment also supports personhood by inviting the surrogate to channel the patient's values throughout the decision- making process."
Bullin & Bogetz 2020	Point: Moral Distress Can Indicate Inappropriate Care at End-Of- Life	Comment	NA	NA	Commentary on "practicing clinicians (oncologists or otherwise) who typically direct plans of care can also experience distress."	NA	professionals and trainees, most commonly in	"Clinicians should unpack their distress through introspection and with support, including consultation with third parties (such as palliative care teams and ethics consultative services), to recognize the contributing value differences, biases and systems issues and to understand what competing ethical considerations their distress may signal."

							or in poor communication of goals and understanding." "4. In rare cases, moral distress may be a marker of competing ethical interests, that do indicate a plan of care is inappropriate." "5. Prematurely dismissing moral distress can eliminate clinician's agency, and fails to recognize a common morality"	
Butler 2020	US Clinicians' Experiences and Perspectives on Resource Limitation and Patient Care During the COVID-19 Pandemic	Qualitativ e	NA	30	"To describe the perspectives and experiences of clinicians involved in institutional planning for resource limitation and/or patient care during the pandemic."	"This qualitative study used inductive thematic analysis of semi structured interviews conducted in April and May 2020 with a national group of clinicians (eg, intensivists,	"The 61 participants included in this study were practicing in 15 US states and were more heavily sampled from areas with the highest rates of COVID-19 infection at the time of interviews (ie, Seattle, New York City, New Orleans).	"The findings of this qualitative study highlighted the complexity of providing high-quality care for patients during the COVID-19 pandemic. Expanding the scope of institutional planning to address resource limitation challenges that can

	nephrologists, nurses) involved in institutional planning and/or clinical care during the COVID-19 pandemic across the United States."	individuals (39 [65%]), were attending physicians (45 [75%]), and were practicing in capacity may help to support frontline clinicians, promote equity, and optimize care as the pandemic
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			make rationing
			decisions at the
			bedside. However,
			even before a
			declaration of crisis
			capacity, clinicians
			encountered varied
			and sometimes
			unanticipated forms
			of resource
			limitation that could
			compromise care,
			require that they
			make difficult
			allocation decisions,
			and contribute to
			moral distress.
			Furthermore,
			unprecedented
			challenges to caring
			for patients during
			the pandemic,
			including the need
			to limit in-person
			interactions, the
			rapid pace of
			change, and the
			dearth of scientific
			evidence, added to
			the challenges of
			caring for patients
,	'		

							and communicating with families."	
Cabrini et al. 2015	Ethical issues associated with in-hospital emergency from the Medical Emergency Team's perspective: a national survey	Quantitati	11	NA	"We performed a survey among Italian intensivists/anesthesio logists evaluating the Medical Emergency Team (MET)'s perspective on the most relevant ethical aspects faced in daily practice."	"A questionnaire was developed on behalf of the Italian scientific society of anesthesia and intensive care (SIAARTI) and administered to its members. Decision making criteria applied by respondents when dealing with ethical aspects, the estimated incidence of conflicts due to ethical issues and the impact on the respondents' emotional and moral distress were explored."	expectancy, wishes, and the quality of life were the factors most considered for decisions. Conflicts with ward physicians were reported by most respondents; disagreement on appropriateness of ICU admission and family unpreparedness to	"Italian intensivists/anesthesio logists reported that ethical issues associated with inhospital emergencies are occurring commonly and are having a significant negative impact on MET well-being." Conflicts with ward physicians happen frequently. They also conveyed that hospitals do not offer ethics training and have no protocols in place to address ethical issues."

Camporesi & Mori 2021	Ethicists, doctors and triage decisions: who should decide? And on what basis?	Comment	NA	NA	"We report here an emerging dispute in Italy concerning triage criteria for critically ill covid-19 patients, and how best to support doctors having to make difficult decisions in a context of insufficient life saving resources."	NA	"There are two opposing solutions to moral distress experienced by doctors and healthcare professionals in a context of imbalance between life-saving resources, and clinical needs of the population: 1. Make criteria explicit, support doctors with a triage committee. 2. Recommend that doctors make triage decisions alone, on the basis of their clinical judgments only."	"These are complex questions that go well beyond the pandemic."
Carse & Ruston 2017	Harnessing the Promise of Moral Distress: A Call for Re- Orientation	Comment	NA	NA	"To revisit the definition and challenges posed by MD, and re-understand the way moral distress is understood and worked with."	NA	"It is crucial that we find ways to empower clinicians in heeding this call—to support clinicians' moral agency and voice, foster their moral resilience, and facilitate their ability to contribute to	"Moral distress itself is not the enemy. If properly worked with, it can heighten awareness that an occasion calls for careful moral consideration and prompt fruitful reflection and action. It is essential that we

						needed reform within the organizations and systems in which they work. These objectives must inform creative expansion in the design of strategies for addressing moral distress in the day-to-day of clinical practice."	find new ways to support the effective moral agency of clinicians, at all levels of power and authority, so they can stand for, and give courageous voice to, matters of conscience without fear of resistance, dismissal, or reprisal, and with realistic hope that their constructive protests and creative ideas will be heard and taken seriously."
Cerrvantes et al. 2018	Clinicians' Perspectives on Providing Emergency- Only Hemodialysis to Undocumented Immigrants: A Qualitative Study.	Qualitativ	NA	20	"In the United States, nearly half of undocumented immigrants with endstage kidney disease receive hemodialysis only when they are evaluated in an emergency department and are found to have lifethreatening renal failure ("emergency-only hemodialysis" [EOHD]). These	subthemes (in parentheses) were identified: 1) drivers of professional burnout (emotional exhaustion from witnessing needless suffering and high mortality, jeopardizing patient	"Clinicians in safety- net settings who provide EOHD to undocumented patients describe experiencing moral distress and being driven toward professional burnout. The burden of EOHD on clinicians should inform discussions of systemic ap- proaches to support provision of adequate care

					patients experience psychosocial distress and much higher mortality than patients receiving regularly scheduled hemodialysis, but little is known about how providing EOHD affects the clinicians involved. To understand clinicians' experiences providing EOHD."	approved this study."	physical exhaustion from over extending to bridge care), 2) moral distress from propagating injustice (altered care based on nonmedical factors, focus on volume at the expense of quality, and need to game the system), 3) confusing and perverse financial incentives (wasting resources, confusing financial incentives, and concerns about sustainability), and 4) inspiration toward advocacy (deriving inspiration from patients and strengthened altruism)."	
Choong et al. 2010	A framework for resolving disagreement during end of life care in the critical care unit	Descripti ve	NA	NA	"To outline the roles and responsibilities of physicians, substitute decision makers, and the judicial system when decisions must be made on behalf of	"We used a case-based example to illustrate our objectives. We employed a comprehensive	"In Canada, laws about substitute decision-making for health care are primarily provincial or territorial. Thus, laws and policies	"Knowledge of underlying ethical principles, understanding of professional duties, and adoption of a process for mediation

					incapable persons, and to provide a framework for conflict resolution during end-of-life decision-making for physicians practicing in Canada."	approach to understanding end-of-life decision making that included: 1) a search for relevant literature; 2) a review of provincial college policies; 3) a review of provincial legislation on consent; 4) a consultation with two bioethicists and 5) a consultation with two legal experts in health law."	from professional regulatory bodies on end-of-life care vary across the country. We tabulated the provincial college policies on end-of-life care and the provincial legislation on consent and advance directives, and constructed a 10-step approach to conflict resolution."	and conflict resolution are essential to ensuring that physicians and institutions act responsibly in maintaining a patients' best interests in the context of family-centred care."
Close et al. 2019	Doctors' perceptions of how resource limitations relate to futility in end-of-life decision making: a qualitative analysis.	Qualitativ e	NA	23	"To increase knowledge of how doctors perceive futile treatments and scarcity of resources at the end of life. In particular, their perceptions about whether and how resource limitations	"Qualitative study using indepth, semistructured, face-to-face interviews. Ninety-six doctors were interviewed in 11 medical	"Doctors' perceptions of whether resource limitations were relevant to their practice varied, and doctors were more comfortable with explicit rather than implicit rationing.	"Doctors' ability to distinguish between futility and rationing would be enhanced through regulatory support for explicit rationing and strategies to support doctors' role in rationing at the

					influence end-of-life decision making. This study builds on previous work that found some doctors include resource limitations in their understanding of the concept of futility."	specialties. Transcripts of the interviews were analysed using thematic analysis."	availability of resources was one factor of many in assessing futility, secondary to patient considerations, but a few doctors indicated that the concept of futility concealed rationing. Doctors experienced moral distress due to the resource implications of providing futile treatment and the lack of administrative supports for bedside rationing."	bedside. Medical policies should address the distinction between resource limitations and futility to promote legitimacy in end-of- life decision making."
Colville et al. 2019	A survey of moral distress in staff working in intensive care in the UK	Quantitati ve	9	NA	"The main aim of this study was to add to the literature by using this scale to establish levels of moral distress in a sample of physicians and nurses	and physicians working in intensive care in	"Mean (SD) Moral Distress Scale- Revised score was 70.2 (39.6). Significant associations were found with female	"In conclusion, it is likely that some degree of moral distress is inevitable in this work and indeed some discomfort of this

		working in adult ICU	Kingdom	gender (female 74.1	kind may be a sign
		settings in the United	completed the	(40.2) vs. male 55.5	that staff are retaining
		Kingdom. Secondary	Moral Distress	(33.8), p=0.010);	the ability to think
		aims were to examine	Scale-Revised in	depression (r=0.165,	critically about what
		associations between	relation to their	p=0.035) and with	they are doing.
		MDS-R scores and	experiences at	intention to leave	However, if this form
		socio-demographic	work."	job (considering	of work-related stress
		factors, scores on a		leaving 85.5 (42.4)	builds to a level
		brief mental health		vs. not considering	where a staff
		screening instrument		leaving 67.2 (38.6),	member's emotional
		and intention to leave		p=0.040)."	wellbeing is seriously
		the job."			compromised, it is
					likely to have an
					impact on the quality
					of care of patients, as
					well as on unit morale
					and staff turnover.
					Interventions
					designed to help staff
					to make sense of the
					more difficult aspects
					of their experiences at
					work together and
					find a way to work
					through them, are
					therefore to be
					welcomed and a
					measure such as the
					MDS-R provides a
					potentially useful tool
					with which to

								evaluate their impact."
Cullati et al. 2017	Self-Rated Health and Sick Leave among Nurses and Physicians: The Role of Regret and Coping Strategies in Difficult Care- Related Situations	Quantitati	9.5	NA	"Moral distress – such as feeling strong regret over difficult patient situations – is common among nurses and physicians. Regret intensity, as well as the coping strategies used to manage regrets, may also influence the health and sickness absence of healthcare professionals. The objective of this study was to determine if the experience of regret related to difficult care-related situations is associated with poor health and sick leave and if coping strategies mediate these association."	sectional surveys were conducted in Switzerland	"Among 775 respondents, most reported very good SRH and 9.7% indicated absence from work during four working days or more. Intensity of the most important regret was associated with poor SRH among nurses and physicians, and with higher sick leave among nurses. Maladaptive emotion-focused strategies were associated with poor SRH among nurses, whereas adaptive emotion-focused strategies were positively associated with higher SRH and lower sick leave among physicians."	"Because care-related regret is an integral part of clinical practice in acute care hospitals, helping physicians and, especially, nurses to learn how to deal with negative events may yield beneficial consequences at the individual, patient care, and institutional level."
Daniel 2012	Bedside resource	Comment ary	NA	NA	"One provider describes her	NA	NA	"A better paradigm for the ethical care of

	stewardship in disasters: A provider's dilemma practicing in an ethical gap				experience allocating an oxygen tank in the intensive care unit at a hospital in Port-au-Prince, Haiti, immediately following the 2010 earthquake. Using a clinical vignette and reflective narrative she attempts to identify the factors that influenced her allocation decision, opening up the factors for commentary and debate by an ethicist."			patients during disasters is needed to better guide provider choices in the future."
Davidson et al. 2015	Workplace Blame and Related Concepts: An Analysis of Three Case Studies	Case series	NA	NA	"Blame has been thought to affect quality by decreasing error reporting. Very little is known about the incidence, characteristics, or consequences of the distress caused by being blamed. Blamerelated distress (B-RD) may be related to moral distress, but may also be a factor in burnout,	how blame impacts clinicians in the	"The distress caused by blame could result in a loss of moral integrity or the feeling that core values and duties have been violated. It is possible that actions known to minimize or reduce moral distress given the current definition could extend not only to situations where	"Health-care leaders are often in the position of reviewing perceived medical errors with negative patient outcomes with hospital staff. In most cases, negative outcomes are not caused by willful acts of harm, but instead by human error, slip, or lapse; organizational process failures; or

DeBoer et	Applying	Comment	NI A	NA	compassion fatigue, lateral violence, and second-victim syndrome. The purpose of this article is to explore these related concepts through a literature review applied to three index critical care clinician cases."	NA	inaction, but also when blame occurs following action and results in a negative patient outcome.	insufficient resources. Looking back on these index cases, it is important to frame case reviews in the workplace in a way that will not result in perceived blame. Leaders can teach staff how to investigate and debrief following a negative patient outcome in a way that does not incur blame, cultivating an environ- ment of performance improvement instead of punishment to prevent B-RD. The distress caused by blame should foster proactive reaching out to provide support to those who may be affected by a negative patient outcome."
al. 2020	Applying Lessons Learned From Low- Resource		INA	INA	disease 2019 (COVID-19) pandemic has forced	INA	from real-world experiences are myriad. First, in the	triage cancer care may be new to those who underwent

Settings to	oncology clinicians	setting of limited training and now
Prioritize	and administrators in	resources, a practice oncology in
Cancer Care in a	the United States to	utilitarian approach high-resource
Pandemic	set priorities for	to maximizing settings, it is familiar
	cancer care owing to	survival benefit for those who practice
	resource constraints.	should guide in low- and middle-
	As oncology practices	decision-making. income countries.
	adapt to a contracted	Second, conflicting Oncologists in the
	health care system,	principles will often United States facing
	expertise gained from	arise among unprecedented
	partnerships in low-	stakeholders and decisions about
	resource settings can	decision makers. prioritization can
	be used for guidance.	Third, fair decision- draw on ethical
	This article provides a	making procedures frameworks and
	primer on priority	should be lessons learned from
	setting in oncology	established to ensure real-world cancer care
	and ethical guidance	moral legitimacy priority setting in
	based on lessons	and accountability. resource-constrained
	learned from	Fourth, proactive environments."
	experience with	safeguards must be
	cancer care priority	implemented to
	setting in low-	protect vulnerable
	resource settings."	individuals, or
		disparities in cancer
		treatment and
		outcomes will only
		widen further. Fifth,
		communication with
		patients and families
		about priority setting
		decisions should be
		intentional and

							standardized. Sixth, moral distress among clinicians must be addressed to avoid burnout during a time when resilience is critical."	
Deep et al. 2008	"Thanks for letting me vent": Moral distress in physicians	Quantitati	5.5	NA	"Moral distress can arise when healthcare providers are constrained from implementing the course of action they deem ethically appropriate due to institutional obstacles or conflict with others about values. This construct has been extensively studied in nursing but has received little attention in physicians."	"We adapted an existing Moral Distress scale for use in physicians. The instrument contains 17 brief clinical scenarios such as professional competence, substandard care, end of life care, and workload. Respondents were asked to rate both the frequency of occurrence and the severity of distress using a 5-point Likert scale. An open	against the physician's	"Physicians are at risk for moral distress especially when providing lifesustaining treatment, dealing with surrogate decision makers and when enduring a high workload. The subjective experience varies among trainees and attending physicians. The etiologies and consequences deserve further study to improve physician satisfaction and patient care."

response item	high ratings for	
asked	severity of distress	
respondents to	include initiating	
describe the	extensive treat-	
time when they	ments believed only	
experienced the	to prolong death	
greatest moral	(73% of respondents	
distress in	rating 4 or 5) or	
clinical practice.	following the wishes	
The anonymous	of surrogate decision	
survey was	makers with regards	
administered to	to end-of-life care	
attending	(70%). Two	
physicians and	workload scenarios	
trainees who	also received high	
provide care to	ratings (68%, 69%).	
seriously-ill	Overall years	
adult inpatients	experience was	
including	correlated with	
internal	increasing distress in	
medicine and	trainees but not	
subspecialties,	attending	
neurology,	physicians.	
family medicine	Increasing critical	
and general	care experience was	
surgery. Surveys	positively correlated	
were	with distress in	
administered at	housestaff ($p < 0.05$)	
departmental	but negatively	
confer- ences or	correlated for	
via mail. We	attendings (p <	

						data using SAS including descriptive statistics and correlation matrices. Two independent raters performed content analysis via an iterative process on the open response data."	not predictive of moral distress. Content analysis revealed respondents describe the most distress in dealing with surrogate decision makers with 21of 53 open responses containing this theme. This most often was described when caring for patients near the end-of- life (10). Providing suboptimal care and inadequate information sharing were also commonly identified themes."	
Dodek et al. 2013	The relationship between moral distress and adverse safety events in intensive care units	Quantitati ve	10	NA	"The purpose of this study was to examine the relationship between moral distress in ICU staff and unplanned extubations, as an example of an adverse safety event."	"We administered the Moral Distress Scale survey (Hamric 2012) to all ICU professionals in 13 ICUs in southwest British	"There were 14,664 patients admitted to these ICUs during the 2-year period; 7909 patients were mechanically ventilated during their ICU stay and 271 had an unplanned	"There is no or at most a weak association between moral distress in ICU staff and unplanned extubations."

Columbia, extubation . W	
Canada. Over used data only	
the same period the 7 sites that	had
(2010-2011), we at least 8 unpla	nned
collected data extubations ov	er the
about unplanned study period.	
extubations in Average moral	
these same distress score v	vas
ICUs. We used 87.8 + 18 (SD)	for
Cox nurses, 59.5 +	
proportional for physicians,	
hazards models 82.7 + 24.5 for	
to determine the health professi	
association at these sites.	
between average Unplanned	
moral distress extubation rate	
score per site ranged from 2.	
and time to 5.1%. In	
unplanned multivariate	
extubations (for analyses for ea	ch
each of nurses, profession, mo	
physicians, and distress score v	
other health not associated	
professionals). unplanned	WILLI
The models extubations."	
were adjusted	
for patient	
characteristics	
(age, APACHE	
II score, and	
sex) and number	
of ICU beds.	

						Sites were treated as clusters. Patients who did not have an unplanned extubation were censored at ICU discharge."		
Dodek et al. 2016	Moral distress in intensive care unit professionals is associated with profession, age, and years of experience	Quantitati	8	NA	"To determine which demographic characteristics are associated with moral distress in intensive care unit (ICU) professionals."	"We distributed a self-administered, validated survey to measure moral distress to all clinical personnel in 13 ICUs in British Columbia, Canada. Each respondent to the survey also reported their age, sex, and years of experience in the ICU where they were working. We used multivariate, hierarchical	"Nurses and other health professionals had higher moral distress scores than physicians. Highest ranked items associated with moral distress were related to cost constraints and end-of-life controversies. Multivariate analyses showed that age is inversely associated with moral distress, but only in other health professionals (rate ratio [95% confidence interval]: -7.3 [-13.4, -1.2]); years of experience is directly associated	"Moral distress is higher in ICU nurses and other non-physician professionals than in physicians, is lower with older age for other non-physician professionals but greater with more years of experience in nurses, and is associated with tendency to leave the job."

						regression to analyze relationships between demographic characteristics and moral distress scores, and to analyze the relationship between moral distress and tendency to leave the workplace."	with moral distress, but only in nurses (rate ratio (95% confidence interval):10.8 [2.6, 18.9]). The moral distress score is directly related to the tendency to leave the ICU job, in both the past and present, but only for nurses and other non-physician health professionals."	
Dodek et al. 2018	Comparison of Moral Distress and Burnout Among Residents in Specialty Programs	Quantitati	6	NA	"Moral distress and burnout are important causes of attrition in health care providers. These constructs have been measured in residents from individual programs, but we are not aware of comparisons of these measures across different specialties within the same faculty of medicine."	"In this cross-sectional study, we distributed the Moral Distress Scale-Revised (MDS-R) and the Maslach Burnout Inventory (with permission) electronically to all residents within the Pediatrics, Psychiatry, and Family	"In July 2017, surveys were distributed to 26, 33, and 140 residents in Pediatrics, Psychiatry, and Family Medicine, respectively. Complete response rates were 65%, 82%, and 84% respectively. In Pediatrics, moral distress was higher in year 3 and 4 than in year 2, PA was lower in year 3 and	"Differences in moral distress and burnout across years of training and across training programs may point to successful strategies and opportunities for improvement."

						depersonalizatio n (DP), personal accomplishment (PA))."	moral distress was greater in Psychiatry than in Pediatrics, and PA was greater in Pediatrics than in Family Medicine. There were no other differences across programs, by year."	
Dodek et al. 2019	Moral distress in intensive care unit personnel is	Quantitati ve	10	NA	"To examine the association between moral distress in ICU	"In 13 ICUs, we measured moral distress once in	"In the pharmacy study, there were almost no significant	"Moral distress in ICU personnel is generally not

associated with adverse medication events and other adverse event	medication errors and adverse events, and other adverse events." and incidence of five explicity-defined adverse safety events over 2 years. In 10 of the ICUs, pharmacists tabulated medication errors and adverse events during 1 day in the 2-year period. Average moral distress scores for each professional group were correlated with each safety measure."	However, higher moral distress in nurses was associated with more interceptions of near misses per administration error $(r = 0.68, p = 0.04)$, and higher moral distress in
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						Score and each Job Content Questionnaire scale (decision latitude, psychological stressors, social support, psychological strain) after adjusting for age, sex, and years of experience of respondents; separate analyses were done for each profession."	
Dodek et al. 2020	Moral Distress and Other Wellness Measures in Canadian Critical Care Physicians	Quantitati	9	NA	"To understand the magnitude of moral distress and other measures of wellness in Canadian critical care physicians, to determine any associations among these measures, and to identify potentially modifiable factors."	"This was an online survey of Canadian critical care physicians whose email addresses were registered with either the Canadian Critical Care Society or the Canadian	"Canadian critical care physicians report moderate levels of moral distress, burnout, and compassionate fatigue, and moderate-high levels of compassion satisfaction and resilience. We found no modifiable factors associated with any

		Critical Care Trials Group. We used validated measures of moral distress, burnout, compassion fatigue, compassion satisfaction, and resilience. We also measured selected individual, practice, and workload characteristics."	syndrome and a similar proportion reported mediumhigh levels of compassion fatigue. In contrast, about one-half of respondents reported a high level of compassion satisfaction and overall, respondents reported a moderate level of resilience. Each of the 'negative' wellness measures (moral distress, burnout, and compassion fatigue) was associated directly with each of the other 'negative' wellness measures, and inversely with each of the 'positive' wellness measures (compassion satisfaction and resilience), but	Further quantitative and qualitative studies are needed to identify interventions to reduce moral distress, burnout and compassion fatigue."
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							moral distress was not associated with resilience. Moral distress was lower in respondents who were married or partnered compared to those who were not, and prevalence of burnout was lower in respondents who had been in practice for longer. There were no differences in any of the wellness measures between adult and pediatric critical care physicians."	
Dombrecht et al. 2020	Psychological support in end-of-life decision-making in neonatal intensive care units: Full population survey among neonatologists and neonatal nurses	Quantitati	9.5	NA	"To evaluate perceived psychological support in relation to end-of-life decisions of neonatologists and nurses working in Flemish neonatal intensive care units and to analyse whether or not this support is sufficient."	"A self-administered questionnaire was sent to all neonatologists and neonatal nurses of all eight Flemish neonatal intensive care units (Belgium) in May 2017.	"About 70% of neonatologists and nurses reported experiencing more stress than normal when confronted with an end-of-life decision; 86% of neonatologists feel supported by their colleagues when they make end-of-	"Even though neonatal intensive care unit colleagues generally support each other in difficult end-of-life decisions, the psychological support provided by their department is currently not sufficient. Professional ad hoc

Ducharlet	Moral Distress	Perspecti	NA	NA	"This article offers an	The response rate was 63% (52/83) for neonatologists and 46% (250/527) for nurses. Respondents indicated their level of agreement (5-point Likert-type scale) with seven statements regarding psychological support."	life decisions, 45% of nurses feel that the treating physician listens to their opinion when end-of-life decisions are made. About 60% of both neonatologists and nurses would like more psychological support offered by their department when confronted with end-of-life decisions, and 41% of neonatologists and 50% of nurses stated they did not have enough psychological support from their department when a patient died. Demographic groups did not differ in terms of perceived lack of sufficient support."	
	in Nephrology: Perceived	ve	11/1	1121	international perspective on moral	moral distress relating to	moral distress in Health Care	replete with clinical situations that may

	Barriers to Ethical Clinical Care				distress in nephrology in diverse contexts and health care systems. We examine and discuss the sociocultural factors that contribute to moral distress in nephrology and offer suggestions for interventions from individual provider, facility, and health care systems perspectives to reduce the impact of moral distress on nephrology provider"	clinicians in nephrology, including experienced physicians, physician trainees and extenders, and nursing staff in diverse situations. Case scenarios adapted from authors' experiences highlight various sources of moral distress in health care systems."	Providers" involving "resource constraints, treatment decision making, patient's withdrawal from dialysis and managing power dynamics".	precipitate moral distress. The challenge for health professionals, nephrology practices, institutions, and societies is how to acknowledge, manage, and lessen moral distress. Our ability to support and sustain ourselves and those around us depends on this response."
Dunham et al. 2020	A Bioethical Perspective for Navigating Moral Dilemmas Amidst the COVID-19 Pandemic	Comment	NA	NA	"Our goal was to provide a framework for considering how a global pandemic changes our moral responsibilities."	NA	duties and responsibilities most	sound advice on how to allocate resources. If clinicians are forced to allocate resources at the bedside, they betray

and often a family. Pandemic environments, however, bring challenges that can only be addressed by moving to a public health ethics frame. The standard question of what I ought to do is modified to what we, as a cohort, ought to do."

"Understanding the perspective of collective ethics helps the clinician understand systembased decisions. However, a clinician still is called to serve their specific patient and must still apply clinical ethics to everyday practice, which can result in significant distress when institutional restrictions prevent a

clinician from doing

dominated their clinical practice.... The shifted priorities in collective ethics require a level of impartiality and consensus. For this reason, the dilemmas that demand a perspective of collective ethics should be brought to a separate, impartial triaging committee that makes consistently just and equitable decisions based on the consensus values."

							what they think to be their obligation to a particular patient."	
Dzeng 2016	Moral Distress Amongst Physician Trainees Regarding Futile Treatments	Comment	NA	NA	"I thank Dr. Adams for her interest and engagement with our article on physician trainee moral distress regarding potentially futile treatments at the end of life."	NA	"Focusing on residents' knowledge base, however, delegitimizes the residents' individual perception and beliefs, and detracts attention from the reality that moral distress can be a significant part of the residents' experience."	"Interventions could focus on creating a culture of openness towards ethical and emotional debriefing following difficult cases. Prospective preparation throughout medical training would help equip trainees with the ethical vocabulary necessary to reflect upon serious moral issues surrounding death and dying."
Dzeng 2016	Moral Distress Amongst Physician Trainees Regarding Futile Treatments	Comment	NA	NA	NA	NA	"Focusing on residents' knowledge base, however, delegitimizes the residents' individual perception and beliefs, and detracts attention from the reality that moral distress can be a significant part of	"I believe we owe it to the young physicians we train to help them become not only clinically competent physicians, but also ethical and compassionate carers."

							the residents' experience. Interventions could focus on creating a culture of openness towards ethical and emotional debriefing following difficult cases. Prospective preparation throughout medical training would help equip trainees with the ethical vocabulary necessary to reflect upon serious moral issues surrounding death and dying."	
Dzeng 2017	Navigating the Liminal State Between Life and Death: Clinician Moral Distress and Uncertainty Regarding New Life-Sustaining Technologies	Perspecti ve	NA	NA	Commentary on clinicians who feel "uncertainty surrounding the treatment of dying patients with LVADs and other new technologies such as Extra-corporeal Membranous Oxygenation (ECMO)	NA	"New technologies like ECMO promote "liminal states between life and death" that "create uncertainty around what constitutes death in patients, causing anxiety and moral distress."	1) Medical education for non-specialists 2) "Develop strategies to address palliative care and advance care planning (ACP)" 3) "Recognize different moral economies surrounding end-of-life care and how that might contribute to moral distress within

								inter-professional teams" 4) "Developing ethical framework and clinical consensus guidelines on defining death in patient on ECMO and with LVADs"
Dzeng et al, 2016	Moral Distress Amongst American Physician Trainees Regarding Futile Treatments at the End of Life: A Qualitative Study	Qualitativ	NA	15	"To understand the magnitude of moral distress and other measures of wellness in Canadian critical care physicians, to determine any associations among these measures, and to identify potentially modifiable factors."	"This was an online survey of Canadian critical care physicians whose email addresses were registered with either the Canadian Critical Care Society or the Canadian Critical Care Trials Group. We used validated measures of moral distress, burnout, compassion fatigue, compassion	"Of the 499 physicians surveyed, 239 (48%) responded and there were 225 usable surveys. Respondents reported moderate levels of moral distress (107 +/- 59; mean +/- SD, maximum 432), one-third of respondents had considered leaving or had previously left a position due to moral distress, about one-third met criteria for burnout syndrome and a similar proportion reported medium-	"Canadian critical care physicians report moderate levels of moral distress, burnout, and compassionate fatigue, and moderate-high levels of compassion satisfaction and resilience. We found no modifiable factors associated with any wellness measures. Further quantitative and qualitative studies are needed to identify interventions to reduce moral distress, burnout and compassion fatigue."

			satisfaction, and	high levels of	
			resilience. We	compassion fatigue.	
			also measured	In contrast, about	
			selected	one-half of	
			individual,	respondents reported	
			practice, and	a high level of	
			workload	compassion	
			characteristics."	satisfaction and	
				overall, respondents	
				reported a moderate	
				level of resilience.	
				Each of the	
				'negative' wellness	
				measures (moral	
				distress, burnout,	
				and compassion	
				fatigue) was	
				associated directly	
				with each of the	
				other 'negative'	
				wellness measures,	
				and inversely with	
				each of the	
				'positive' wellness	
				measures	
				(compassion	
				satisfaction and	
				resilience), but	
				moral distress was	
				not associated with	
				resilience. Moral	
				distress was lower in	

							respondents who were married or partnered compared	
							to those who were	
							not, and prevalence	
							of burnout was	
							lower in respondents who had been in	
							practice for longer.	
							There were no	
							differences in any of	
							the wellness	
							measures between	
							adult and pediatric critical care	
							physicians."	
Dzeng et al. 2017	Physician trainees' experiences of moral distress regarding potentially futile treatments at the end of life in the United Kingdom: A qualitative study	Qualitativ e	NA	NA	"Moral distress, the inability to act in accordance with one's ethical beliefs due to hierarchical or institutional constraints, has been associated with burnout and poorer well-being. Significant moral distress amongst American physician	interviews with 14 junior doctors (equivalent of residents and fellows) in the UK regarding moral distress and attitudes surrounding do-	"UK trainees infrequently experienced feelings of ethical conflict surrounding resuscitation, though some respondents did note one or two rare but notable cases of resuscitation they felt were inappropriate.	distress and distress surrounding potentially futile care and resuscitation at the end of life between US and UK trainees. We
					trainees might occur when they feel obligated to provide	not-resuscitate (DNR) decision-making.	Themes that arose included a feeling of shared attitudes	hypothesize that UK policies and culture allow physicians to
					obligated to provide	maxing.	shared attitudes	anow physicians to

Epstein	End-of-life	Qualitativ	NA	14	treatments at the end of life that they believe to be futile or harmful. Policies in the United Kingdom permit physicians to make a decision to withhold or abort resuscitation that they believe would be inappropriate or ineffective following discussions with the family. The aim of this study was to explore whether moral distress surrounding resuscitation at the end of life occurred in the UK, a country whose health policies surrounding end of life care are notably different than those in the United States."	Interviews, which were audio-taped and professionally transcribed, lasted an average of 60 minutes. Transcripts were analyzed and double coded using thematic analysis. Themes and patterns emerged from initial interviews and analysis, and were refined and validated in subsequent interviews through questions added to the interview guide and probing of key themes during the interviews." "A hermeneutic	around providing care that was in a patient's best interest. Please see Table 1 for example quotations of UK junior doctors. Distress instead appeared to arise from other areas such as insufficient resources or personnel to provide optimal care and a lack of control over the nature of their work."	withhold inappropriate or ineffective resuscitation, allowing physicians to act in ways that are in accordance with their ethical beliefs. Different policies surrounding resuscitation at the end of life in the US and UK might contribute to different degrees of moral distress amongst physician trainees regarding potentially futile treatments at the end of life."
EG, 2008	experiences of nurses and	e			the larger study from which this article was	phenomenology of health-care	and 11 physicians were interviewed.	this study was that a common overall

newborn intensive care unit	explore the EOL phenomenon in the NICU by combining and comparing the lived EOL experiences of parents, nurses and physicians." August was con Semistri intervier complet individu provider Demogr data wer collecter Analysis themes a descript statistics perform	overall theme of 'creating the best possible experience' for parents. Despite this commonality, the two disciplines approached the EOL and accomplished their common obligation from different vantage points." born overall theme of 'creating the best possible experience for parents. Despite this commonality, the two disciplines approached the EOL and accomplished their common obligation from different vantage points." born overall theme of 'creating the best possible experience for parents. Despite this commonality, the two disciplines approached the EOL and accomplished their common obligation from different vantage points."
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							consent for autopsy."	
Epstein et al. 2019	Enhancing Understanding of Moral Distress: The Measure of Moral Distress for Health Care Professionals	Quantitati	10.5	NA	"As ongoing research explores the impact of moral distress on health care professionals (HCPs) and organizations and seeks to develop effective interventions, valid and reliable instruments to measure moral distress are needed. This article describes the development and testing of a revision of the widely used Moral Distress Scale—Revised (MDS-R) to measure moral distress."	evaluating the combined data from 22 previous studies, assessing 301 write-in items and 209 root causes identified through moral distress consultation, and reviewing 14 recent publications	HP demonstrated	"The MMD-HP represents the most currently understood causes of moral distress. Because the instrument behaves as would be predicted, we recommend that the MMD-HP replace the MDS-R."

						and pediatric critical, acute, or long-term acute care settings. We then assessed the reliability of the MMD-HP and evaluated construct validity via hypothesis testing. The MMD-HP, Hospital Ethical Climate Survey (HECS), and a demographic survey were distributed electronically via Qualtrics to nurses, physicians, and other health care professionals at two academic medical centers over a 3-week period."	reflective of patient, unit, and system levels of moral distress."	
Eves et al. 2015	Conflicting Values: A Case	Case study	NA	NA	"Exploring the experiences of one	"Management strategies to	"The authors then describe one	"An ethics consultation service

Elood et al	Study in Patient Choice and Caregiver Perspectives	Qualitativ	NA	19	pregnant woman and her caregivers, this case study highlights how bias may undermine caregivers' ability to meet their obligation to enhance patient autonomy and the moral distress they may experience when a patient's values do not align with their own."	mitigate the potential impact of bias and related moral distress are identified."	management strategy used in this case, facilitated ethics consultation, which is focused on thoughtful consideration of the patient's perspective."	can play an instrumental role in supporting the caregiving team in meeting this obligation in several ways. Illustrating one of those ways, the case study above describes how one ethics consult service used a perspective—taking approach and facilitated reflective discussion of the plurality of values. It demonstrates how this method can help caregivers reconcile their own values with the patient's when they do not align, in order to optimize the care environment and meet their professional ethical duties."
2020	Challenges in the provision of kidney care at the largest public	Qualitativ e	NA	19	"Chronic kidney disease (CKD) is increasing worldwide, and the majority of the CKD burden is in	interviews were	professionals most frequently described challenges in providing high-	"Health professionals at the largest public nephrology center in Guatemala described multiple strategies to

nephrology	lowand middle-	recruited	quality care due to	meet the rising
center in	income countries	through	resource limitations.	demand for renal
Guatemala: a	(LMICs). However,	convenience	Reducing the	replacement therapy.
qualitative study	there is wide	sampling at the	frequency of	Due to systems-level
with health	variability in global	largest public	hemodialysis,	limitations, health
professionals	access to kidney care	nephrology	encouraging patients	professionals faced
	therapies such as	center in	to opt for peritoneal	difficult choices on
	dialysis and kidney	Guatemala.	dialysis rather than	the stewardship of
	transplantation. The	Health	hemodialysis, and	resources that are
	challenges health	professionals	allocating resources	linked to sentiments
	professionals	included	based on clinical	of burnout and moral
	experience while	administrators,	acuity were common	distress. This study
	providing kidney care	physicians,	strategies for	offers important
	in LMICs have not	nurses,	reconciling high	lessons in Guatemala
	been well described.	technicians,	demand and limited	and other countries
	The goal of this study	nutritionists,	resources. Providers	seeking to build
	is to elicit health	psychologists,	experienced	capacity to scale-up
	professionals'	laboratory	significant	kidney care."
	perceptions of	personnel, and	emotional	
	providing kidney care	social workers.	challenges related to	
	in a resource-	Interviews were	high patient volume	
	constrained	recorded and	and difficult	
	environment,	transcribed in	decisions on	
	strategies for dealing	Spanish.	resource allocation,	
	with resource	Qualitative data	leading to burnout	
	limitations, and	from interviews	and moral distress.	
	suggestions for		To improve care,	
	improving kidney	NVivo using an	respondents	
	care in Guatemala."	inductive	suggested increased	
		approach,	budgets for	
		allowing	equipment and	
		dominant	personnel,	

						themes to emerge from interview transcriptions."	investments in preventative services, and decentralization of services"	
Førde and Aasland 2008	Moral distress among Norwegian doctors	Quantitati ve	10.5	NA	"To describe whether Norwegian doctors experience stress related to ethical dilemmas and lack of resources, and to explore whether the doctors feel that they have good strategies for the resolution of ethical dilemmas."	"Postal survey of a representative sample of 1497 Norwegian doctors in 2004, presenting statements about different ethical dilemmas, values and goals at their workplace."	misconduct. 51% described sometimes	distress varies with specialty and gender. Lack of strategies to solve ethical dilemmas and low tolerance for conflict

						more stress that their male colleagues. 44% reported that their workplace lacked strategies for dealing with ethical dilemmas."	
Fujii et al. 2021	Translation and validation of the Japanese version of the measure of moral distress for healthcare professionals	12	NA	"Moral distress occurs when professionals cannot carry out what they believe to be ethically appropriate actions because of constraints or barriers. We aimed to assess the validity and reliability of the Japanese translation of the Measure of Moral Distress for Healthcare Professionals (MMD-HP)."	the questionnaire into Japanese according to the instructions of EORTC Quality of Life group translation manual. All physicians and	eligible for the analysis. The mean total score of MMD-HP (range, 0–432) was 98.2 (SD, 59.9). The score was	"The translated Japanese version of the MMD-HP is a reliable and valid instrument to assess moral distress among physicians and nurses."

						factor structure. Construct validity was assessed with the relation to the intention to leave the clinical position, and internal consistency was assessed with Cronbach's alpha. Confirmatory factor analysis was conducted."		
Gordon 2014	Moral distress caused by an uncertain prognosis: when the surrogate and the physician bring different priorities to the discussion	Comment	NA	NA	"Our case describes a patient with acute disseminated encephalomyelitis (ADEM) severe enough to require intensive care unit (ICU) care."	NA	NA	"The ethics consultant is uniquely positioned to help all parties explore the sources of conflict, which, brought to the surface, can then become a source of fruitful discussion and, one hopes, reconciliation."
Grady 2015	Surgical medicine: imperfect and extraordinary	Comment	NA	NA	"Twelve powerful stories recount memorable experiences of surgeons."	NA	"The themes that emerge from these rich narratives by surgeons are familiar ones in the	"Uncertainty is a reality in medicine, and it is often said that medicine is an art, not just a science.

							about and difficulties with communication and with informed consent are common and troubling. Uncertainty was also a prevalent theme in these stories, uncertainty about the right thing to do or say and about how to treat the patients and families the surgeons wrote about."	prototypically confident in their recommendations. Yet, these surgeons poignantly describe uncertainty. Sometimes the uncertainty leads to
grauerholz et al. 2020	Fostering Vicarious Resilience for Perinatal Palliative Care Professionals	Qualitativ e	NA	NA	"The demands on healthcare professionals caring for familiesgrappling with a life-limiting condition in an unborn or newly born child can be overwhelming. Clinicians working in emergency/trauma,	"A scoping review of the research literature was conducted in order to distinguish the barriers and facilitators of professional resiliency in	"The research indicated that medical professionals often cite a lack of knowledge, inexperience using effective communication skills related to perinatal palliative	"Support should be strategic and multifaceted. The onus to implement salient measures to cultivate resilience in the perinatal palliative caregiver should not be only upon the individuals themselves but also

hospice, and pediatric	perinatal	care and	upon prevailing
settings are already at	palliative care.	bereavement,	regulatory governing
high risk for burnout	PubMed,	challenges with	bodies and healthcare
and compassion	Medline,	interdisciplinary	institutions."
fatigue, which can	CINAHL, and	collaboration,	
leavehealthcareinstitut	EBSCO	misconceptions	
ions increasingly	Psychology &	about the role and	
vulnerable to poor	Behavioral	function of palliative	
retention,	Sciences	care in the perinatal	
absenteeism, and	Collections were	or neonatal settings,	
waning quality of	systematically	moral distress, and	
care. The provision of	reviewed.	workload	
exemplary palliative	Because of the	challengesasencumb	
care requires a	paucity of	rances to	
cohesive	studies specific	professional	
interdisciplinary team	to perinatal	satisfaction.	
of seasoned	palliative care,	Strategic	
professionals resilient	several	implementation of	
to daily challenges. In	interviews of	facility-wide	
September 2019, the	nurses and	bereavement care	
American College of	physicians in	training, effective	
Gynecology, in a	that field were	communication	
committee opinion,	conducted and	modalities, and	
published standard of	analyzed for	evidenced-based	
care guidelines for	content	practical	
perinatal palliative	distinctly	applications are	
care. This has created	pertaining to	critical components	
an impetus for	personal	for a thriving	
exceptional	practices or	perinatal palliative	
caregiving and	workplace	care team. Authentic	
agreater demand	factors that	formal and informal	
forbothphysician and	support or	debriefing, peer	

					interdisciplinary healthcare provider education, training, and ongoing support that promotes truly beneficentcarefor pregnant patients confronted with life- limiting fetal conditions."	hinder professional resiliency."	mentoring, adequate caseloads, robust provider self-care practices, exceptional relational efficacy, and cultural and spiritual humility can foster personal growth and even vicarious resilience for perinatalpalliative careprofessionals."	
Green et al. 2016	Difficult Discharge in Pediatric Rehabilitation Medicine Causing Moral Distress	Case study	NA	NA	To present and discuss a case in which the "different ethical analyses that might each mitigate the moral distress of health care providers" can be explored.	NA	"We present one example of a morally distressing situation in which care was provided for a child who had altered physical abilities after a trauma and was being discharged to a suboptimal family environment. Caring for a child with an acquired spinal cord injury requires significant resources. When a family is able to	"Health care personnel in pediatric rehabilitation settings often face ethical dilemmas. These might result in moral distress. Applying ethical standards to such dilemmas might be useful in guiding staff to decisions that mitigate moral distress. However, applying BIS and upholding parental authority to this case did not result in likely reductions in staff

							physically care for the child, but has demonstrated incomplete follow- through, the team is at risk for experiencing significant moral distress."	distress. Other ethical standards or systems beyond principalism—perhaps narrative ethics—might be valuable to explore and might mitigate staff moral distress in future cases."
Green et al. 2017	Moral Distress in Rehabilitation	Perspective	NA	NA	"Hopefully, these 3 pieces will help you better to identify your own experiences of moral distress when they occur and give you tools to begin thinking about how to address them."	"In this column, we offer 3 perspectives to better understand and appreciate the experience of moral distress in physical medicine and rehabilitation (PM&R)."	NA	The 3 perspectives of moral distress shared on the "first-hand experiences of moral distress in the rehabilitation setting and how [the author] has learned to address these experiences", "defines moral distress in contrast to conscientious objection in health care", and "unpacks the complexities of a moral distress experience in PM&R health care professionals—and notes hazards that may be specific to those clinicians who

								care for patients over long periods of time".
Halper et al. 2020	Promoting Resident Wellness: A Novel Clinic Scheduling Model during Pediatric Intensive Care Unit Rotations	Quantitati	6.5	NA	"To implement and evaluate a novel continuity clinic schedule and measure changes in moral distress and continuity of care."	"Each pediatric resident was scheduled for one half- day continuity clinic session and one full-day continuity clinic session during their PICU rotation. Residents were not scheduled for clinic on a call day. Residents who had completed at least one PICU rotation were invited to fill out a baseline survey on their perceptions of continuity clinic attendance during the PICU rotation. Following implementation	"The pre- intervention survey found over 50% of residents felt moral distress and perceived PICU care was compromised when leaving for clinic. Post- intervention surveys showed a decrease in residents reporting moral distress and compromised PICU care (p<0.05). The pre-intervention median score for moral distress was 4 (often) and the post- intervention score was 1 (never). Further, residents who strongly agreed that continuity clinic was an important break from the PICU increased from 13.8% at baseline to 40%	"This novel continuity clinic scheduling model is associated with a decrease in moral distress and improvement in perceived continuity clinic value. Additionally, this model decreased the number of PICU handoffs, which potentially decreased opportunities for medical errors."

						of the new schedule, a post-intervention survey was distributed. Survey questions used Likert scales (range 1-5; 1=never, 5=almost always). Baseline and post-intervention survey data was analyzed using a two- sided Wilcoxon two-sample rank-sum test."	post-intervention. Residents appreciated the real life experience of a full clinic day and reported feeling less distracted in clinic. Finally, the schedule change led to 2.4 fewer PICU handoffs per resident per month."	
Hamric 2010	Moral distress and nurse- physician relationships	Case study	NA	NA	"Differences in nurses' and physicians' perspectives are often brought into sharp relief in end-of-life patient situations."	NA	NA	"Addressing organizational systems that give rise to repeated instances of moral distress with specific attention to interprofessional collaboration will be necessary to create a climate in which Gerard can fulfill his

								obligations as a professional nurse without compromising his integrity."
Hamric et al. 2007	Nurse-physician perspectives on the care of dying patients in critical care units: Collaboration, moral distress and ethical climate	Quantitati	10.5	NA	"To explore registered nurses' and attending physi- cians' perspectives on caring for dying patients in intensive care units (ICUs), with particular attention to the relationships among moral distress, ethical climate, physician/nurse collaboration, and satisfaction with quality of care."	and pilot tested a survey to	"Registered nurses experienced more moral distress and lower collaboration than physicians, they perceived their ethical environment as more negative, and they were less satisfied with the quality of care provided on their units than were physicians. Provider assessments of quality of care were strongly related to perception of collaboration."	"Improving the ethical climate in ICUs through explicit discussions of moral distress, recognition of differences in nurse/physician values, and improving collaboration may mitigate frustration arising from differences in perspective."
Hamric et al. 2012	Development and Testing of an Instrument to Measure Moral Distress in Healthcare Professionals	Quantitati ve	11	NA	"This article describes the development and testing of a revised measure of moral distress, the Moral Distress Scale– Revised (MDS-R),	"After instrument development and content validity testing, a survey methodology	"Adequate reliability and evidence of construct validity were demonstrated. Moral distress was significantly higher for nurses than	"Initial testing of the MDS-R reveals promising evidence of instrument reliability and validity. The findings from this study lend further

					designed for use in multiple health care settings and with multiple disciplines."	was used to assess reliability and construct validity of the MDS-R. Registered nurses (n = 169) and physicians (n = 37) in eight intensive care units (ICUs) at an academic medical center in the southeastern United States participated; the survey was administered during a 2-week period in January 2011."	physicians, although it was negatively correlated with ethical climate for both provider groups. MDS-R scores were significantly higher for those clinicians considering leaving their positions. The proportion of physicians and nurses who had left a previous position or who were considering leaving their current positions due to moral distress was high (16% and 31%, respectively)."	support to the important relationships between the moral distress of providers, the ethical climate of health care settings, and retention of health care professionals."
Hancock et al. 2020	Understanding burnout and moral distress to build resilience: a qualitative study of an interprofessional intensive care unit team	Qualitativ e	NA	19	"The purpose of this study was to explore personal and organizational factors that contribute to burnout and moral distress in a Canadian academic intensive care unit (ICU) healthcare team. Both	better understanding of stakeholder perspectives on burnout and	MDs, 21 RNs, and eight RTs) represented 43% of	"Intensive care unit team members described their experiences with moral distress and burnout, and suggested ways to build resilience in the workplace. Experiences and

	A 11			NI A	of these issues have a significant impact on healthcare providers, their families, and the quality of patient care. These themes will be used to design interventions to build team resilience."	focus groups with registered intensive care nurses (RNs), respiratory therapists (RTs), and physicians (MDs) considered causes of burnout and moral distress, its impact, coping strategies, as well as suggestions to build resilience."	the RNs, and 20.0% of the RTs. Themes were concordant between the professions and included: 1) organizational issues, 2) exposure to high-intensity situations, and 3) poor team experiences. Participants reported negative impacts on emotional and physical wellbeing, family dynamics, and patient care. Suggestions to build resilience were categorized into the three main themes: organizational issues, exposure to high intensity situations, and poor team experiences."	suggestions were similar between the interdisciplinary teams."
al. 2017	Addressing Palliative Care Clinician Burnout in Organizations:	Comment	INA	NA	"Efforts to mitigate and prevent burnout currently focus on individual clinicians. However, analysis of	NA	NA	"As a society, we hold organizations responsible for acting ethically, especially when it relates to

	A Workforce Necessity, an Ethical Imperative				the problem of burnout should be expanded to include both individual- and systems-level factors as well as solutions; comprehensive interventions must address both."			deployment and protection of valuable and constrained resources. We should similarly hold organizations responsible for being ethical stewards of the resource of highly trained and talented clinicians through comprehensive programs to address burnout."
Havyer et al. 2017	Update in Hospital Palliative Care: Symptom Management, Communication, Caregiver Outcomes, and Moral Distress	Qualitativ	NA	NA	"Updated knowledge of the palliative care (PC) literature is needed to maintain competency and best address the PC needs of hospitalized patients. We critiqued the recent PC literature with the highest potential to impact hospital practice."	"We reviewed articles published between January 2016 and December 2016, which were identified through a handsearch of leading journals and a MEDLINE search. The final 9 articles selected were determined by consensus based	"Key findings include the following: scheduled antipsychotics were inferior to a placebo for nonterminal delirium; a low-dose morphine was superior to a weak opioid for moderate cancer pain; methadone as a coanalgesic improved high-intensity cancer pain; many hospitalized patients	"Recent research provides important guidance for clinicians caring for hospitalized patients with serious illnesses, including symptom management, ACP, moral distress, and outcomes of critical illness."

		rig to me im	gor, relevance hospital edicine, and npact on ractice."	on comfort care still receive antimicrobials; video decision aids improved the rates of advance care planning (ACP) and hospice use and decreased costs; standardized, PC-led intervention did not improve psychological outcomes in families of patients with a chronic critical illness; caregivers of patients surviving a prolonged critical illness experienced high and persistent rates of depression; people with nonnormative sexuality or gender faced additional stressors with partner loss; and physician trainees experienced significant moral
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							distress with futile treatments."	
Heinze et al. 2017	Strategies for Promoting High-Quality Care and Personal Resilience in Palliative Care	Comment	NA	NA	"In this paper, we discuss recommendations related to two promising pathways for supporting palliative care (PC) clinicians in providing high-quality PC: (1) improving systemic PC delivery and (2) strategies to promote ethical practice environments and individual resilience. Enacting these recommendations holds promise for sustaining higher-quality and accessible PC and a more engaged PC workforce."	NA	"PC clinicians have a moral imperative to care for others and to care for themselves. There are currently many barriers to fulfilling these duties: systemically, the provision of high-quality PC is impeded by lack of training opportunities and lack of evidence-based outcomes data. On an individual level, PC clinicians may be plagued by moral distress that can lead to burnout, job dissatisfaction, or leaving the profession. In order to address these challenges, we offer two recommendations. First, PC programs	"Enacting these recommendations holds promise for sustaining higher-quality and accessible PC and a more engaged PC workforce."

						PC outlined in Dying in America should be implemented to ensure delivery of high-quality PC. PC research should also incorporate these core components so that results can be compared across studies. Furthermore, PC education components should be included in general education for all health care clinicians. Second, individual PC clinicians and health care organizations should invest in resources to mitigate the impact of moral distress and build ethical practice environments."	
auses of Moral vistress in the	Qualitativ e	NA	22	"To examine the causes of moral	"We used focus groups and	"Based on input from 19 staff nurses	"Causes of moral distress vary among

	ICU: A Qualitative Study				distress in diverse members of the ICU team in both community and tertiary ICUs"	coding of transcripts into themes and subthemes in 2 tertiary care intensive care units and 1 community intensive care unit."	(3 focus groups), 4 clinical nurse leaders (1 focus group), 13 physicians (3 focus groups), and 20 other health professionals (3 focus groups), the most commonly reported causes of moral distress were concerns about the care provided by other health care workers, the amount of care provided (especially too much care at end of life), poor communication, inconsistent care plans, and issues around end of life decision-making."	ICU professional groups but all are amenable to improvement."
Henrich et al. 2017	Consequences of Moral Distress in the Intensive Care Unit: A Qualitative Study	Qualitativ e	NA	23	"To examine the consequences of moral distress in personnel in community and tertiary intensive care	"Data for this study were obtained from focus groups and analysis of transcripts by themes and sub-	"According to input from 19 staff nurses (3 focus groups), 4 clinical nurse leaders (1 focus group), 13 physicians (3 focus	"In response to moral distress, health care providers experience negative emotional consequences, patient care is perceived to be negatively affected,

					units in Vancouver, Canada."	themes in 2 tertiary care intensive care units and 1 community intensive care unit."	groups), and 20 other health professionals (3 focus groups), the most commonly reported emotion associated with moral distress was frustration. Negative impact on patient care due to moral distress was reported 26 times, whereas positive impact on patient care was reported 11 times and no impact on patient care was reported 10 times. Having thoughts about quitting working in the ICU was reported 16 times, and having no thoughts about quitting was reported 14 times."	
Hilliard et al. 2007	Ethical conflicts and moral distress experienced by paediatric	Qualitativ e	INA	14	"To identify the ethical conflicts and moral distress experienced by	"Data were collected from four focus groups, which were organized	"While residents occasionally face traditional paediatric ethical issues, such as 'do not	"Paediatric residents experience significant ethical conflicts and moral distress. Understanding these

resi	idents during	paediatric residents	according to the	resuscitate' orders,	ethical issues will
thei	ir training	during their training."	four separate	more often they	help those responsible
			years of	experience conflicts	for postgraduate
			residency	because of their	medical education to
			training. Focus	inexperience and	review or revise the
			groups	their place in the	ethics curriculum in
			consisting of	hierarchy of the	keeping with the
			four to 10	medical care team,	current moral distress
			participants	particularly when	experienced by
			were led by a	there is	residents, and help to
			research	disagreement	mentor and guide
			assistant. The	between trainees and	trainees."
			focus groups	senior staff. Their	
			were recorded	ability to deal and	
			by an audio	cope with these	
			device and	issues changes as	
			transcribed	they go through	
			verbatim; all	their training. Many	
			data that would	residents in the first	
			identify any of	part of their training	
			the participants	were more frustrated	
			or staff were	and confused with	
			eliminated. Data		
			analysis	these cases,	
			involved a	residents found their	
			modified	best support from	
			thematic	their peers and other	
			analysis. The	senior residents.	
			study was	Residents in the	
			approved by the	later years of	
			Research Ethics	training seemed	
			Board at the	more accustomed to	

						Hospital for Sick Children in Toronto, Ontario."	ethical issues. Furthermore, almost all of the residents believed that other members of their health care team have acted in an unethical or unprofessional way."	
Hlubocky et al. 2020	A Call to Action: Ethics Committee Roundtable Recommendatio ns for Addressing Burnout and Moral Distress in Oncology	Comment	NA	NA	"In this Call to Action article, we discuss causes of and interventions for burnout and moral distress in oncology, highlight existing interventions, and provide recommendations for addressing burnout and improving wellbeing at the individual and organizational levels to deliver ethical, quality cancer care."		"As the previous discussion makes clear, burnout compromises clinician health and well-being, patient safety and quality of care, the economic strength of practices and institutions, and the future oncology workforce. Because the effects are so widespread, individual physicians, oncology practices and health care employers, professional societies such as ASCO, and other	"3 recommendations: 1. Broaden clinician education resources", 2. Establish Physician Well-Being and Burnout as Important Quality Metrics for Oncology Practices 3. Promote research"

							stakeholders (eg, Centers for Medicare and Medicaid Services, state medical boards, payers, regulators, and electronic health record vendors) all share responsibility for addressing the problem."	
Hossain 2020	Moral distress among healthcare providers and mistrust among patients during COVID-19 in Bangladesh	Perspective	NA	NA	"This article specifically discusses the importance of interpersonal relationships in driving change, using the framework of Responsiveness, while stating the need for complementary systematic change in order to rebuild trust in the Bangladeshi healthcare system."	NA		"In the context of Bangladesh, it is urgent that healthcare providers, the government, and healthcare systems embrace and include responsiveness as normative and expected best practices. This has five components: friendliness, respect, informing and guiding, trust-building, and optimizing benefit."

							their families. This dilemma places healthcare providers in situations where they experience moral distress."	
Howe 2017	How Should Physicians Respond When the Best Treatment for an Individual Patient Conflicts with Practice Guidelines about the Use of a Limited Resource?	Case study	NA	NA	"To offer an interpretation of physicians' moral distress in resource-scarce situations and ways to preserve physician-patient relationships"	NA	"The case presents a physician's ethical conflict, due to limited resources, between his obligations to meet the needs of a community and those of his patient. Elements of the decision-making process (and who should make the decision) are discussed, including the limitations of what ethical reasoning can offer and risks of arbitrary outcomes. Additionally, potential benefits to physicians and their patients of discussing these conflicts, including	"I argue that physicians' abilities to make "right" decisions in such situations are limited, and I suggest ways in which physicians can try to preserve their relationships with patients."

							reducing the physician's moral distress, are noted."	
Howe 2017	Fourteen Important Concepts Regarding Moral Distress	Comment	NA	NA	"The article discusses the "reasons for moral distress among patients and HCPs, and advocates for the welcoming of expressions of moral distress from clinicians, patients and their families."	NA	NA	"I have addressed 14 points that we may want to consider when our patients or we ourselves feel moral distress. The end goal is to welcome and appreciate our patients and our colleagues who express their moral distress, rather than finding it threatening in any way."
Jacoba et al. 2016	Appropriateness of care and moral distress among neonatal intensive care unit staff: repeated measurements	Quantitati	10.5	NA	"To assess the immediate impact of perceived inappropriate patient care on nurses' and physicians' MD intensity, and explore a possible moderating effect of ethical climate."	"In a repeated measures design, after baseline assessment, each participant completed self-report questionnaires after five randomly selected shifts. Data were	"At baseline, overall MD was relatively low; in nurses, it was significantly higher than in physicians. Few morally distressing situations were reported in the repeated measurements, but distress could be intense in these	"Although infrequently perceived, overtreatment of patients caused considerable distress in nurses and physicians. Our unit introduced multidisciplinary medical ethical decision making 5 years ago, which may

Jacobs et	Moral Distress	Comment	NA	NA	"The objective of this	analysed with logistic and Tobit regression."	cases; nurses' and physicians' scores were comparable. Physicians were significantly more likely than nurses to disagree with their patients' level of care (p = 0.02). Still, perceived overtreatment, but not undertreatment, was significantly related to distress intensity in both professional groups; ethical climate did not moderate this effect. Substandard patient care due to lack of continuity, poor communication and unsafe levels of staffing were rated as more important causes of MD than perceived inappropriate care."	partly explain the low MD at baseline."
al. 2020	During COVID- 19: Residents in		IVA	11/1	paper is to identify the unique challenges that residents face,		IVA	patients, facing longer work hours, and feeling the burden of

Training Are at	specifically moral		low staffing, all which
High Risk	distress, as it plays		have been linked to
	out during the		increasing moral
	COVID-19 pandemic.		distress. With more
	Further we offer		clinicians being
	strategies that		trained to assist in the
	residency program		critical care settings
	leadership can		for COVID-19
	implement to support		outbreaks, a large
	residents within their		population of
	training programs."		providers who have
			not previously seen
			such stark ethical
			challenges in their
			training may face
			moral distress.
			Education about
			moral distress and its
			consequences may
			strengthen residents'
			capacity to cope and
			seek support during
			the COVID-19
			pandemic and
			throughout their
			residency. This
			training will hopefully
			mitigate the
			development of moral
			injury among this
			critical physician
			workforce."

Janvier et	Moral distress in	Quantitati	7	NA	"The aims of this	"Between July	"Two hundred and	"In summary, we
al. 2007	the neonatal	ve			study were to	and October	seventy-nine	wished to investigate
	intensive care				determine whether	2002, an	caregivers	the ethical
	unit: caregiver's				ethical confrontation	anonymous	participated (115	experiences of nurses
	experience				is frequent for	questionnaire	full time nurses and	and residents involved
					residents and nurses	regarding	164 residents). All	in neonatal care
					caring for extremely	opinions and	the distributed	because ethical
					preterm infants and to	knowledge	questionnaires were	confrontations can
					determine factors	related to	completed. Frequent	
					associated with	neonatal		the health-care team
					ethical confrontation	resuscitation and	1 2	and interfere with the
					such as age, sex, the	neurological	35% of the nurses	provision of high-
					fact of having	outcome at and	and 19% of the	quality care. Further
					children, experience,	below 28 weeks	residents. Among	studies will be
					religion, center where	was distributed	the nurses, moral	required to find ways
					one works,	to groups of	distress differed	to equip trainees and
					knowledge of	residents and	significantly	health-care workers
					neurological long-	nurses. All	between work	with the tools to
					term outcome and	residents in	environments.	examine these
					opinions regarding	pediatrics and	Nurses working in	confrontations, to
					acceptability of	obstetrics in the	an out-born NICU	learn from these
					resuscitations at the	province of	and obstetric nurses	difficult situations and
					margins of viability."	Quebec, Canada	were more likely to	thus to profit from
						were surveyed.	overestimate CP	them."
						Four university	prevalence (P<0.05).	
						centers in	Nurses who	
						Quebec have a	overestimated CP	
						residency	rates had higher thresholds for	
						program in Obstetrics and	resuscitation and	
						Pediatrics:	were more likely to	
						Quebec,	experience ethical	
						Quebec,	experience eunical	

Johnson-	Moral distress	Quantitati	11	NA	"To describe and	Sherbrooke, Montre al (Universite de Montre al and McGill University). Nurses of the McGill University Health Centre involved in perinatal and neonatal care were also questioned; the three groups being delivery room nurses, nurses working in a maternity hospital neonatal intensive care unit (NICU), NICU nurses working in a Children's hospital."	confrontations. Of the residents, 60% were pediatric and 40% obstetric. All groups of residents frequently overestimated the prevalence of CP, and knowledge differed significantly by residency program (P<0.05). The residents who overestimated CP rates had higher thresholds for resuscitation, had more incorrect answers regarding prematurity outcomes and were less likely to have ethical confrontations."	"Moral distress and
Coyle et al. 2016	and burnout among cardiovascular	ve			compare the prevalence and contributing factors to	survey of ICU professionals (registered	nine providers completed the sur- vey (response rate	burnout are common in healthcare professionals in a

surgery intensive care unit healthcare professionals: prospective cross-sectional survey		moral distress and burnout among ICU professionals in a large quaternary cardiovascular surgery ICU (CVICU)."	nurses [RN]/nurse practitioners [NP]; registered respiratory therapists [RRT]; allied health [AH] and physicians [MD]) working in a 24-bed CVICU at the Mazankowski Alberta Heart Institute, between June 15-29, 2015. The survey captured sociodemograph ic data and integrated the Moral Distress Scale-Revised, the Maslach Burnout	of respondents were aged 26-34 years old (45%), female (79%), married or common law (50%), full-time employed (78%) and had been working in the CVICU for >5 years (46%). Moral distress scores were highest among RN/NP (med [IQR] 80 [57-110]) and RRT (85 [61-104]) compared to AH (54 [39-66]) and physicians (66 [43-82], p=0.05). The highest-ranked sources of moral distress were related to controversies on end-of-life care	large academic cardiovascular surgery ICU, in particular among nurses and respiratory therapists. Both moral distress and burnout have a negative perception on job satisfaction. These findings will direct strategies to mitigate moral distress and burnout along with enhancing patient care and improving the workplace environment."
			ic data and integrated the Moral Distress	highest-ranked sources of moral distress were related	
			the Maslach Burnout Inventory', and a	end-of-life care ("Continue to participate in the	
			validated job satisfaction questionnaire."	care for a hopelessly ill person who is being sustained on a ventilator, when no one will make a	

			decision to	
			withdrawal	
			support") and poor	
			communication	
			("witness healthcare	
			providers giving	
			false hope' to a	
			patient or family").	
			High, moderate and	
			low levels of	
			burnout syndrome	
			were found in	
			64.0%, 22.7% and	
			13.3% of	
			respondents with	
			significantly greater	
			levels among non-	
			physician	
			professionals	
			(p<0.001). Job	
			satisfaction was	
			highest for	
			physicians	
			compared with other	
			professionals	
			(p<0.001). The item	
			"the recognition you	
			get for good work"	
			was consistently	
			rated as poor across	
			all groups. Moral	
			distress and burnout	
I.	 I			

							scores were positively correlated (p<0.001), whereas both were negatively correlated with job satisfaction (p<0.001 for both). This was primarily driven by RN/NP scores."	
Johnston et al. 2021	Assessing moral distress in trainees on a pediatric hematology-oncology rotation	Mixed methods	NA	NA	"1. Identify themes causing moral distress. 2. Create a moral space to discuss moral distress. 3. Develop interventions to mitigate moral distress."	rotation, trainees	"A total of 26 residents have completed the survey. The most common, higher scoring themes were related to poor communication, documentation requirements, volume of patients, and lack of continuity. A hematology-oncology specific theme was the inability to discuss the prognosis with the patient/family. Themes identified in discussion included feeling inadequate	residents who have participated in sessions focused on discussing these experiences find having this time to reflect useful. Additionally, this process has informed targeted interventions to mitigate moral distress during this rotation. Future

						for one hour to discuss moral distress and items identified in their surveys as causing high distress. Trainees were encouraged to reflect on their experiences openly after assuring confidentiality. Changes to the process were implemented over time based on initial results, as determined by scores on the measure and themes identified in sessions with trainees. "	involvement with patients' significant events, such as new diagnosis discussions, and caring for actively dying children. Based on initial results, trainees were given a checklist at the start of the rotation to ensure participation in important discussions, and an additional survey was added assessing whether trainees found these sessions useful. Preliminary information indicates that the implemented checklist is helping residents feel emboldened to communicate more openly to obtain training experiences. Six trainees have	rotation as compared to other rotations during their training, and how to best address any differences found."
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							intervention survey and each endorsed usefulness of the meeting."	
Jones et al. 2020	Psychological impact of working in paediatric intensive care. A UK-wide prevalence study	Quantitati	10.5	NA	"To determine the prevalence of work-related psychological distress in staff working in UK paediatric intensive care units (PICU)."	"Online (Qualtrics) staff questionnaire, conducted April to May 2018. Staff working in 29 PICUs and 10 PICU transport services were invited to participate."	"The Moral Distress Scale- Revised (MDS-R) was used to look at moral distress, the abbreviated Maslach Burnout Inventory to examine the depersonalisation and emotional exhaustion domains of burnout, and the Trauma Screening Questionnaire (TSQ) to assess risk of post-traumatic stress disorder (PTSD). Results 435/1194 (36%) nurses, 48/270 (18%) physicians and 19/192 (10%) other staff scored above the study threshold for moral distress (90 on MDS-R) (χ 2 test, p<0.00001).	"These results suggest that UK PICU staff are experiencing work-related distress. Further studies are needed to understand causation and to develop strategies for prevention and treatment."

							594/1194 (50%) nurses, 99/270 (37%) physicians and 86/192 (45%) other staff had high burnout scores (χ2 test, p=0.0004). 366/1194 (31%) nurses, 42/270 (16%) physicians and 21/192 (11%) other staff scored at risk for PTSD (χ2 test, p<0.00001). Junior nurses were at highest risk of moral distress and PTSD, and junior doctors of burnout. Larger unit size was associated with higher MDS-R, burnout and TSQ scores."	
Kapiriri 2015	Ethical challenges in clinical decision-making in the era of new technologies: Experiences from low	Perspecti ve	NA	NA	"To discuss the ethical (and other) challenges clinicians in Low-income countries (LIC)s face in this new technology era."	NA	"Patient related challenges included; inappropriate demand, ability to make informed decisions and balancing self-interest vs. public	-"explicit processes and criteria for allocating new technologies. In the shorter term there should be transparency in the decision making

	income countries						interest. Clinician related challenges included; the use of unfair criteria, lack of explicit criteria and processes, lack of evidence, potential for abuse, physicians' dual role, autonomy and moral distress. Most of these were directly influenced by the extreme lack of resources, and decisions made at the meso- macro and global levels with regards to research and development and investing in new technologies for LICs."	clinicians' decision making"
Knifed et al. 2010	Moral angst for surgical residents: a qualitative study	Qualitativ e	NA	18	"Such ethical matters have not been explored in the surgical literature, especially not from the perspective of the trainees themselves. The purpose of this study was to explore	"Grounded theory methodology was used. All University of Toronto surgical, otolaryngology, and obstetrics	"Five encompassing themes emerged: (1) residents prefer operating with another resident while the staff watches; (2) residents felt that patients were rarely	"Residents encounter ethical dilemmas leading to moral angst during their surgical training and need to feel safe to discuss these openly. Staff and residents should work together to

					ethical concerns and distress that surgical residents may encounter as a result of their being "on-the-job trainees."	and gynecology residents were invited to participate. Twenty-eight face-to-face interviews were conducted. Interviews were transcribed and analyzed by 3 reviewers."	well informed about their role; (3) residents develop good relationships with patients; (4) residents felt ethically obliged to disclose intraoperative errors; and (5) residents experience ethical distress in certain teaching circumstances."	establish optimal communication and teaching situations."
Ladin et al. 2018	Discussing Conservative Management With Older Patients With CKD: An Interview Study of Nephrologists	Qualitativ e	NA	22	"In this qualitative study, we examine how nephrologists decide whether to discuss CM with older patients, and identify triggers for CM discussion and the barriers and facilitators to discussion. We also explore nephrologists' beliefs, experiences, and challenges in engaging older patients in discussions about CM."	"Semi-structured interviews with 35 nephrologists sampled based on gender, years in practice, practice type, and region. Thematic and narrative analysis of recorded and transcribed interviews."	"Among 35 semi- structured interviews with nephrologists from 18 practices, 37% described routinely discussing CM ("early adopters"). Five themes and related subthemes reflected issues that influence nephrologists' decisions to discuss CM and their approaches to these discussions: struggling to define	"Our findings clarify how moral distress serves as a catalyst for CM discussion and highlight points of intervention and mechanisms potentially underlying low CM use in the United States."

			nephrologists' roles
			(determining
			treatment, instilling
			hope, improving
			patient symptoms),
			circumventing end-
			of-life conversations
			(contending with
			prognostic
			uncertainty, fearing
			emotional backlash,
			jeopardizing
			relationships,
			tailoring
			information),
			confronting
			institutional barriers
			(time constraints,
			care coordination,
			incentives for
			dialysis, discomfort
			with varied CM
			approaches), CM as
			"no care", and moral
			distress.
			Nephrologists'
			approaches to CM
			discussions were
			shaped by
			perceptions of their
			roles and by a
			common view of
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							CM as "no care". Their willingness to pursue CM was influenced by provider-level and institutional-level barriers and experiences with older patients who regretted or had been harmed by dialysis (moral distress). Early adopters routinely discussed CM as a way of relieving moral distress, whereas others who were more selective in discussing CM experienced greater distress."	
Lamiani et al. 2017	When healthcare professionals cannot do the right thing: A systematic review of moral distress and its correlates	Qualitativ e	NA	NA	"This review describes the publication trend on moral distress and explores its relationships with other constructs."	"A bibliometric analysis revealed that since 1984, 239 articles were published, with an increase after 2011."	"Of the 239 articles, 17 empirical studies were systematically analyzed. Moral distress correlated with organizational environment (poor ethical climate and collaboration), professional	"Findings revealed that moral distress negatively affects clinicians' wellbeing and job retention. Further studies should investigate protective psychological factors to develop preventive interventions."

							attitudes (low work satisfaction and engagement), and psychological characteristics (low psychological empowerment and autonomy)."	
Lamiani et al. 2017	Value congruence and depressive symptoms among critical care clinicians: The mediating role of moral distress	Quantitati	11.5	NA	"This study aimed to test the mediating role of moral distress in the relationship between value congruence and job control, on the one hand, and depression, on the other hand."	"A cross-sectional study involving physicians, nurses, and residents working in 7 intensive care units in the north of Italy was conducted. Clinicians were administered in the Italian Moral Distress Scale—Revised, the value and control subscales of the Areas of Worklife Scale, and the Beck Depression Inventory II.	"Analysis on 170 questionnaires (response rate 72%) found no relations between job control and moral distress. A total indirect effect of value congruence on depression through moral distress ($\beta =12$; $p = .02$) was found."	"Moral distress contributes to the development of depressive symptoms among critical care clinicians who perceive a value incongruence with their organization and therefore should be addressed."

						Structural equation modeling was used to test the mediation model."		
Lamiani et al. 2017	Measuring moral distress among critical care clinicians: Validation and psychometric properties of the Italian Moral Distress Scale-Revised (MDS-R)	Quantitati	11.5	NA	"Moral distress is a common experience among critical care professionals leading to frustration, withdrawal from patient care and job abandonment. Most of the studies on moral distress have used the Moral Distress Scale (MDS) or its revised version (MDS-R). However, these scales have never been validated through factor analysis. This paper aims to explore the factorial structure of the MDS-R and develop a valid and reliable scale through factor analysis."	"The MDS-R was translated into Italian and administered along with a measure of depression (BDI-II) to establish convergent validity. Exploratory factor analysis was conducted to explore the MDS-R factorial structure. Items with low (≤.350) or multiple saturations were removed. The resulting model was tested through confirmatory factor analysis."	"The Italian MDS-R evinces good reliability (α=.81) and moderately correlates with BDI-II (r=.293; p=.000). No significant differences were found in the moral distress total score between physicians and nurses. However, nurses scored higher on Futile care than physicians (t=2.051; p=.042), while physicians scored higher on Deceptive communication than nurses (t=3.617; p=.000). Moral distress was higher for those clinicians considering to give	"The Italian MDS-R is a valid and reliable instrument to assess moral distress among critical care clinicians and develop tailored interventions addressing its different components. Further research could test the generalizability of its factorial structure in other cultures."

							up their position (t=2.778; p=.006)."	
Lamiani et al. 2018	Clinicians' moral distress and family satisfaction in the intensive care unit	Quantitati	11.5	NA	"This study explored the relationship between clinicians' moral distress and family satisfaction with care in five intensive care units in Italy."	"A total of 122 clinicians (45 physicians and 77 nurses) and 59 family members completed the Italian Moral Distress Scale-Revised and the Family Satisfaction in the ICU questionnaire, respectively."	"Clinicians' moral distress inversely correlated with family satisfaction related to the inclusion in the decision-making process. Specifically, physicians' moral distress inversely correlated with satisfaction regarding the respect shown toward the patient. Nurses' moral distress inversely correlated with satisfaction regarding breathlessness and agitation regarding breathlessness and agitation management, provision of emotional support, understanding of information, and inclusion in the decision-making process."	"These findings suggest that moral distress, as a form of distress pertaining to the professional and ethical dimensions of the clinical work, may be an indicator of low-quality care and therefore should be addressed. Educational and supportive initiatives such as ethical rounds, interdisciplinary case discussion, and clinical supervisions could be offered for clinicians to promote moral resiliency and improve the quality of care."

	Critically III Patients: Clinicians' Empathy Promotes Job Satisfaction and Does Not Predict Moral Distress	ve			assess whether the level of empathy of clinicians working in critical care settings may expose them to moral distress, poor job satisfaction, and intention to quit their job."	clinicians who attended the 2016 "Smart Meeting Anesthesia Resuscitation in Intensive Care" completed the Empathy Quotient questionnaire, the Moral Distress Scale-Revised, and two questions assessing job satisfaction and intention to quit the job. Multiple linear and logistic regressions were performed to determine if clinicians' empathy influences moral distress, job satisfaction, and intention to quit.	analyses. Respondents were 56% physicians, 24% nurses, and 20% residents. Over half of the clinicians (58%) were female. Empathy resulted the only significant predictor of job satisfaction (β = 0.193; p < 0.05). None of the	neither moral distress nor intention to quit. Findings suggest that empathy is not a risk factor for critical care clinicians in developing moral distress and the intention to quit their job. On the contrary, empathy was found to enhance clinicians' job satisfaction."
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						and profession were used as control variables."		
Larson et al. 2017	Moral Distress in PICU and Neonatal ICU Practitioners: A Cross-Sectional Evaluation	Quantitati	10.5	NA	"To measure the level of moral distress in PICU and neonatal ICU health practitioners, and to describe the relationship of moral distress with demographic factors, burnout, and uncertainty."	"A 41-item questionnaire examining moral distress, burnout, and uncertainty."	Secondary outcomes were frequency and intensity Revised Moral Distress Scale	"In this single-center, cross-sectional study, we found that moral distress is present in PICU and neonatal ICU health practitioners and is correlated with burnout, uncertainty, and feeling unsupported."

			the measures of
			moral distress,
			burnout, and
			uncertainty. Two-
			hundred six
			analyzable surveys
			were returned. The
			median Revised
			Moral Distress Scale
			score was 96.5
			(interquartile range,
			69–133), and 58%
			of respondents
			reported significant
			work-related moral
			dis- tress. Revised
			Moral Distress Scale
			items involving end-
			of-life care and
			communication
			scored highest.
			Moral distress was
			positively associated
			with burnout ($r2 = 0.27$; $p < 0.001$) and
			uncertainty ($r2 =$
			0.04; p = 0.008) and
			inversely associated
			with perceived
			hospital
			supportiveness (r2 =
			0.18; p < 0.001).
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							Nurses reported higher moral distress intensity than physicians (Revised Moral Distress Scale intensity subscores: 57.3 vs 44.7; $p = 0.002$). In nurses only, moral distress was positively associated with increasing years of ICU experience ($p = 0.02$) and uncertainty about whether their care was of benefit ($r2 = 0.11$; $p < 0.001$) and inversely associated with uncertainty about a child's prognosis ($r2 = 0.03$; $p = 0.03$)."	
Lievrouw et al. 2015	Coping With Moral Distress in Oncology Practice: Nurse and Physician Strategies	Qualitativ e	NA	22	"To explore variations in coping with moral distress among physicians and nurses in a university hospital oncology setting."	"17 doctors and 18 nurses with varying experience levels, working in three different oncology hospital	"Moral distress lingered if it was accompanied by emotional distress. Four dominant ways of coping (thoroughness, autonomy,	"Moral distress is a challenging phenomenon in oncology. However, when managed well, it can lead to more introspection and team reflection,

			settings" were interviewed "based on the critical incident technique. Analyses were performed using thematic analysis."	which could be mapped on two perpendicular continuous axes: a tendency to internalize or externalize moral distress, and a tendency to focus on rational or experiential elements. Each of the ways of coping had strengths and weaknesses. Doctors reported a mainly rational coping style, whereas nurses tended to focus on feelings and experiences. However, people appeared to change their ways of handling moral distress depending on personal or work-related experiences and perceived team	resulting in a better interpersonal understanding."
				culture. Prejudices	

							were expressed about other professions."	
Litleskare et al. 2020	Refusals to perform ritual circumcision: a qualitative study of doctors' professional and ethical reasoning	Qualitativ	NA	19	"Ritual circumcision of infant boys is controversial in Norway, as in many other countries. The procedure became a part of Norwegian public health services in 2015. A new law opened for conscientious objection to the procedure. We have studied physicians' refusals to perform ritual circumcision as an issue of professional ethics."	"Qualitative interview study with 10 urologists who refused to perform ritual circumcision from six Norwegian public hospitals. Interviews were recorded and transcribed, then analysed with systematic text condensation, a qualitative analysis framework."	"The physicians are unanimous in grounding their opposition to the procedure in professional standards and norms, based on fundamental tenets of professional ethics. While there is homogeneity in the group when it comes to this reasoning, there are significant variations as to how deeply the matter touches the urologists on a personal level. About half of them connect their stance to their personal integrity, and state that performing the procedure would go against their conscience and lead	"It is argued that professional moral norms sometimes might become more or less 'integrated' in the professional's core moral values and moral identity. If this is the case, then the distinction between conscience-based and professional refusals to certain healthcare services cannot be drawn as sharply as it has been."

							to pangs of conscience."	
Luyckx et al. 2017	Ethical Challenges in the Provision of Dialysis in Resource- Constrained Environments	Descripti	NA	NA	"In this article, we present ethical challenges faced by patients, families, clinicians, and policy makers where dialysis is not universally accessible and discuss the potential ethical consequences of various dialysis allocation strategies."	NA	NA	"Finally, we suggest an ethical framework for use in policy development for priority setting of dialysis care. The accountability for reasonableness framework is proposed as a procedurally fair decision-making, priority-setting process."
Mair et al. 2020	Burnout, Professional Quality of Life, and Workplace Stressors in Intensivists in Australia and New Zealand	Quantitati	NA	NA	"To investigate (1) the degree and prevalence of burnout in intensivists working in Australia and New Zealand; and (2) workplace stressors associated with an increased risk of self-reported burnout."		"Very few participants (0.8%) demonstrated high scores (>75th centile) for burnout and 70.9% scored in the average range for burnout. 98.1% participants scored in the average to high range for compassion satisfaction. No association was found between	"Known socio- organisational factors asso- ciated with work-related stress and burnout were common in ANZ intensivists. Despite this, fewer ANZ intensivists experienced a high degree of burnout than has previously been estimated. Identified themes may

	to assess (1) interpersonal interactions an workplace rela tionships, (2) leadership and governance, ar (3) self- determination and control, all of which have previously bee associated with	level of burnout or compassion satisfaction. Seven major themes for intensivists' work stressors were: (1) interpersonal interactions and workplace relationships; (2) workload and its impact; (3) resources and capacity; (4) health systems leadership and bureaucracy; (5) end-of-life issues and moral distress; (6) clinical management; and (7) job security and future uncertainty."
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Martin 2019	An ethics refresher for doctors in moral distress: theory and practice	Comment	NA	NA	"This article describes a gap between ethics-in-practice and ethics-in-theory; clinicians are often better at knowing what to do than articulating why to do it. This gap can go unnoticed until moments of moral distress. To reduce this gap, this article presents the four principles approach to medical ethics as a helpful framework when implemented carefully."	NA	clinicians' ethical deliberation. It	"Through its careful implementation, the gap between ethics-in-practice and ethics-in-theory can be narrowed and clinicians can be helped through times of moral distress."
McDougall 2009	Combating junior doctors' "4am logic": a challenge for medical ethics education	Comment	NA	NA	"This paper uses an intern's story of an ethically challenging situation to argue that this emphasis is problematic in terms of ensuring students' ethical practice as junior doctors."	NA	"The story suggests that it is aligning their actions with the values that they reflectively embrace that can present difficulties for junior doctors working in the pressures of the hospital environment, rather than reasoning to an	"I argue that junior doctors need skills for implementing their ethical decisions and that these ought to form a central component of undergraduate medical ethics education."

							ethically appropriate action."	
McLaughli n et al. 2019	Moral Distress in Internal Medicine Residents	Quantitati	7	NA	"This is a mixed methods prospective observational cohort study that aims to enroll 90 internal medicine (IM) residents on a rolling basis from one IM residency program."	"Data is being collected by a series of 3 surveys over 1 year, using the previously validated Moral Distress Scale, to evaluate frequency and intensity of distress associated with specific situations experienced or witnessed by residents during training. This initial analysis, bivariate and multivariate regression of quantitative data from the first time point (survey #1), investigated associations between moral	were: 66.8 (SD 31.0) and 61 (range 16-132). In multivariate linear regression "PC" residents had scores 31 pt. higher compared to "Categorical" residents. Male residents had scores 25 pt lower than female residents, and PGY year conferred an incremental score increase of 11 pt per year. Themes regarding causes of moral distress included: lack of resources, situations when patient care is dictated by cost-saving measures,	"In this preliminary analysis, residents in the PC track have higher average moral distress scores. It is unclear whether residents prone to more moral distress self select into this track or whether distress is related to differences in training between PC and categorical tracks. Additionally, more senior residents had average higher scores. This supports the theory of residual moral distress; an increasing amount of moral distress is experienced as a provider witnesses/experiences distressing events over time. Most coping strat- egies involve social

						distress scores and demographic, training-specific, and intrinsic personal factors of participants. Analysis of qualitative openended questions further explored causes of moral distress and as well as coping mechanisms employed by residents."	included: debriefing with team members or others outside of work, active individual reflection, exercise/yoga/medit ation, participating in activities and social events outside of medicine, reflective writing/journaling, and suppression and/or distraction."	
McLaughli n et al. 2020	Moral distress among physician trainees: contexts, conflicts, and coping mechanisms in the training environment	Qualitativ e	NA	NA	"There is a dearth of literature focusing on moral distress among physician trainees, particularly as regards the clinical training environment. This study explores the phenomenon of moral distress among internal medicine trainees, with an emphasis on the contexts of clinical	"We report qualitative data from a mixed methods prospective observational cohort study of internal medicine (IM) residents and associated faculty at a large, urban, academic	"Experience with moral distress was universal among participants. Trainees identified several drivers of moral distress that were unique to their professional development as clinicians and their role as trainees/ learners within clinical teams,	"Physician trainees experience considerable moral distress in the context of their professional development, with unique drivers of moral distress identified in the training and clinical team context. This improved understanding of factors unique to the

training and	medical	including: feelings	trainees' experience
professional role	institution. Five	of inadequacy in	has implications for
development."	focus groups	clinical or	tailoring educational
	were conducted	procedural skills,	experiences as
	with 15 internal	being asked to	professional
	medicine	perform duties	development
	residents	outside of their	activities, as well as
	(PGY1-3),	scope of practice,	potential wellness and
	between January	discomfort with the	resilience-building
	and October	idea of 'practicing'	among physician
	2019. In each	skills on patients,	trainees. It may also
	focus group	poor team	inform the training of
	trained	communication,	physician leaders and
	facilitators	disagreements with	seniors clinicians who
	conducted semi-	senior team	engage with trainees
	structured	members,	in learning and
	interviews using		clinical
	prompts which	disempowerment as	environments."
	focused on	junior team	
	definitions of,	members, and	
	experiences	overwhelming or	
	with, and	inappropriate	
	consequences of		
	moral distress.	non-clinical	
	Transcripts were		
	independently	also identified	
	coded by	unique, place-based	
	investigators,	moral distress across	
	and analyzed by	different clinical	
	major themes	environments,	
	and sub-themes.	including intensive	
	Discrepant	care units, wards,	

						themes and codes were reviewed by the full research team to establish clarity and consensus. Data were analyzed using Dedoose® software."	and outpatient environments, as well as between private, public, and government-run hospital facilities."	
Meeker et al. 2018	Transition to Comfort- Focused Care: A Metasynthesis of Patient, Family, and Provider Perspectives	Qualitativ	NA	NA	"Transitioning to comfort-focused care is inherently difficult with fear, loss, and a sense of powerlessness common. Failure to assist patient and family with a timely transition increases suffering, truncates the opportunity for meaningful life closure, and subjects patients to needless interventions, draining healthcare resources while adversely impacting patient and family outcomes. The purpose of this study	"Study Identification. Literature was sourced from systematic searches of Medline, CINAHL, and PsycInfo databases. Inclusion criteria were: (a) published report of a primary study using qualitative methods, (b) addresses some aspect of transition process to comfort-focused	The transition process of moving toward a shared view was dependent on sub-processes of (1) engaging and establishing connection and (2) sharing decision- making. Connection	"The findings provide a framework to guide clinicians in reducing conflict and facilitating a patient's transition to comfort-focused care when appropriate and congruent with patient goals as well as directions for needed research."

to comfort-focused care as reported by patients, family members, healthcare providers." Description Descripti	care as reported by patients, family members, healthcare providers." English from any country, and (e) all participants were adults. No date limitations were placed. The Joanna Briggs tool was used for quality appraisal. Data Extraction and Synthesis. Information was abstracted and placed in a matrix. Data was first synthesized by participant group and then	
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Miljeteig	Clinical ethics	Mixed	11	12	"Ethical dilemmas are	"A national	"A total of 587	"Ethiopian physicians
et al. 2019	dilemmas in a	Methods			part of medicine, but	survey of	physicians	report ethical
	low-income				the type of challenges,	physicians from	responded (response	challenges related
	setting - a				the frequency of their	49 public	rate 91,7%), and 565	more to bedside
	national survey				occurrence and the	hospitals using	met the inclusion	rationing and fairness
	among				nuances in the	stratified, multi-	criteria. Twelve of	concerns than futility
	physicians in				difficulties have not	stage sampling	24 specified	discussions and
	Ethiopia				been systematically	was conducted	ethically challenging	conflicts about
					studied in low-income	in six of the 11	situations were	autonomy as
					settings. The	regions in	reported to be	described in studies
					objective of this paper	Ethiopia.	experienced often or	from high-income
					was to map out the	Descriptive	sometimes by more	countries. In addition
					ethical dilemmas from	statistics were	than 50% of the	to the high report of
					the perspective of	used and the	physicians. The	experienced
					Ethiopian physicians	responses to the	most frequently	challenges, gravity of
					working in public	open-ended	reported challenge	the dilemmas that are
					hospitals."	question "If you	concerned resource	present in their
						have	distribution: 93%	narratives are striking.
						experienced any	agreed that they	Recognition of the
						ethical dilemma,	often or sometimes	everyday experiences
						can you please		of physicians in low-
						describe a	choices due to	income settings
						dilemma you	resource limitation,	should prompt the
						have	and 83% often or	development of ethics
						encountered in	sometimes	teaching and support
						your own	encountered	mechanisms,
						words?" were	difficulties because	discussion of ethical
						analyzed using a	patients were unable	guidelines as well as
						template	to pay for the	increase our focus on
						analysis	preferred course of	how to improve the
						process."	treatment. Other	grave resource
							frequently reported	

							difficulties were doubts about doing good or harming the patient, relating to conflicting views, concern for family welfare, disclosure issues and caring for patients not able to consent. Few reported dilemmas related to end-of-life issues. The 200 responses to the open-ended question mirrored the quantitative results."	
Mills and Cortezzo 2020	Moral Distress in the Neonatal Intensive Care Unit: What Is It, Why It Happens, and How We Can Address It	Qualitativ	NA	NA	"The purpose of this review is to describe moral distress and the situations that give rise to it in the NICU, ways in which various members of the medical team experience it, how it impacts care delivery, and approaches to address it."	NA	NA	"The multitude of circumstances that can lead to moral distress require a thoughtful and tailored approach to patient care. Ethics rounds, debriefing after deaths, codes, or other challenging situations, and exceptional communication among team members and with caregivers

			are the cornerstones
			of minimizing the
			negative impact of
			moral distress while
			leveraging its role in
			progress. Simulation
			or case-based
			discussion can
			provoke thought and
			acknowledgment of
			one's own feelings in
			various situations so
			that providers feel
			confident in their
			approach to care. In
			addition, not delaying
			difficult conversations
			with parents can
			minimize the trauma
			associated with
			aggressive medical
			interventions or end-
			of-life care and will
			encourage open,
			deliberate
			communication. Most
			importantly, perhaps,
			is the recognition of
			moral distress as an
			entity, its impact on
			care provided, and
			helping staff identify

			its presence. By
			acknowledging the
			influence and
			implications of moral
			distress, providers are
			better equipped to
			minimize the negative
			effects and provide
			safer, more resilient
			care. Utilization of
			behavioral medicine
			resources, team
			discussions,
			mentorship and buddy
			systems for emotional
			and moral support can
			encourage self-
			awareness and a focus
			on addressing moral
			distress. Fostering a
			culture of openness,
			ethical sincerity and
			support for those who
			are struggling can
			reduce consequences
			such as burnout and
			job dissatisfaction.
			Communication with
			team members can
			offer insight in to
			other perspectives and
			guide future actions.

								Guidance from seasoned mentors and reassurance from colleagues regarding the normalcy of moral distress and advice for managing it provides the tools for personal and professional growth."
Morris et al. 2020	Burnout in psychosocial oncology clinicians: A systematic review	Quantitati	NA	NA	"The aim of this systematic review was to summarize what is known about the prevalence and severity of burnout in psychosocial clinicians who work in oncology settings and the factors that are believed to contribute or protect against it."	(including compassion fatigue and secondary trauma) in psychosocial oncology clinicians were identified by searching PubMed/MEDL INE, EMBASE, PsycINFO, the Cumulative	"Thirty-eight articles were reviewed at the full-text level, and of those, nine met study inclusion criteria. All were published between 2004 and 2018 and included data from 678 psychosocial clinicians. Quality assessment revealed relatively low risk of bias and high methodological quality. Study composition and sample size varied greatly, and the majority of clinicians were aged between 40 and 59	review suggests that psychosocial clinicians are not at increased risk of burnout compared with other health care professionals working in oncology or in mental health. Although the data are quite limited, several

						Science Core Collection."	that might impact burnout, including work engagement, meaning, and moral distress. When	work. More research using standardized measures of burnout with larger samples of clinicians is needed to examine both prevalence rates and how the experience of burnout changes over time. By virtue of their training, psychosocial clinicians are well placed to support each other and their nursing and medical colleagues."
Moskop et al. 2018	Another Look at the Persistent Moral Problem of Emergency Department Crowding	Comment	NA	NA	"This article revisits the persistent problem of crowding in US hospital emergency departments (EDs)."	NA	NA	"The article concludes that ED crowding remains a morally significant problem and calls on emergency physicians, ED and hospital leaders, emergency medicine professional associations, and policymakers to

							collaborate on solutions."
Nejadsarva ri et al. 2015	Relationship of Moral Sensitivity and Distress Among Physicians	Quantitati	12	NA	"In this survey, we evaluated moral sensitivity and moral distress among physicians and the relationship of these ethical factors on them. Hence, we assessed y relationship between moral sensitivity and moral distress in physicians will facilitate their sound management so as to provide high-quality and safe health services. Moreover it will confirm proposed theories regarding this subject."	"There was a negative significant relationship between moral sensitivity and moral distress frequency; there was a positive significant relationship between moral sensitivity and moral distress intensity. Participating in medical ethics courses increased moral sensitivity and decreased the frequency of moral distress."	sensitivity and decreased the frequency of moral distress."

						moral distress, and moral sensitivity was used for collecting data which then were analyzed using SPSS-20."		
Neo et al. 2016	Preliminary data from studying moral distress amongst trainees in a residency programme	ve	NA	NA	"Moral distress is the mental and emotional pain from participating in perceived moral wrongdoings. Residents are particularly vulnerable owing to relative inexperience and position in the professional hierarchy."	"Residents and senior residents were surveyed via anonymous, online questionnaires. Subjects scored frequency and intensity of distress using the Moral Distress Scale-Revised (MDS-R). Perceived efficacy in coping with moral distress was measured using the General Self Efficacy (GSE) scale. Information including	"Of 140 respondents, 54.3% were female, and 35% were senior residents. Mean MDS-R scores (± SD) was low at 81.7 ± 44.9. However, >20% of subjects experienced severe distress in 13/22 scenarios of the MDS-R. Of these, >20% of subjects encountered 8 scenarios sometimes too very frequently. They pertain to: 1) futile interventions; 2) collusion; 3) inappropriate treatment for fear of litigations; 4) poor	"A subpopulation of trainee experiences exceedingly higher moral distress across an array of clinical encounters, but fails to perceive a deficit in coping. Further qualitative interviews will explore predictors of distress and deficiencies in current bioethics curriculum."

						sociodemograph ics, year of residency, academic qualifications and duration of clinical practice were collected. Subjects with MDS-R within the top and bottom quartiles were compared, to identify predisposing factors."	communication, and 5) inadequate healthcare resources. Comparing the highest and lowest quartiles of MDS-R scores, age 26-30 is significantly associated with greater distress (OR 4.36, P <0.05). There were no differences by demographics, religion, duration of practice, stage of residency and previous ethical training. Mean GSE scores (28.74 ± 4.08 vs 28.75 ± 3.43) were near-identical."	
Neumann et al. 2018	Burnout, Moral Distress, Work— Life Balance, and Career Satisfaction among Hematopoietic Cell Transplantation Professionals	Quantitati ve	11.5	NA	"A projected shortage of hematopoietic cell transplantation (HCT) health professionals was identified as a major issue during the National Marrow Donor Program/Be The Match System Capacity Initiative.	"A cross- sectional, 90- item, web-based survey was administered to advanced practice providers, nurses, physicians,	"Of 5759 HCT providers who received an individualized invitation to participate, 914 (16%) responded; 627 additional participants responded to an	"These results suggest specific areas to address in the work environment for HCT health professionals, especially the need for relief of moral distress and a greater degree of personal time. As the creation

potential barriers to recruitment/retention. This study examined these barriers and their association with career satisfaction across HCT disciplines." Participants were recruited from these barriers and their association with career satisfaction parcess HCT groups. Burnout (measured with the Maslach Burnout Inventory subscales of emotional exhaustion and depersonalization on and moral distress (measured by Moral Distress Scale—Revised) were examined to identify work-related distress. Additional questions Additional questions addressed demographics, work-life balance, and limuturatize and decrease costs, disciplines (pt <0.05). The prevalence of burnout differed and ceross disciplines (pt <0.05) with an overall prevalence of adve. Over one-late distress and burnout, whereas social workers had the lowest prevalence at less than one-third. Moral distress scores ranged from questions addressed demographics, work-life balance, and listed and decrease costs, disciplines (pt <0.05) with an overall prevalence of surrout disciplines (pt <0.05) with an overall prevalence of surrout disciplines (pt <0.05) with an overall prevalence of surrout disciplines (pt <0.05) with an overall prevalence of surrout disciplines (pt <0.05) with an overall prevalence of surrout disciplines (pt <0.05) with an overall prevalence of surrout distress and decrease costs, and decrease costs, and the prevalence of surrout distress and the mitigate work-relate distress and burnout, whereas social workers had the lowest (pt <0.05) with an overall prevalence of surrout distress and the mitigate work-relate distress and the mitigate work-relate distress and the motivative of 40%. Over one-late distress and the lowest (pt <0.05) with an overall prevalence of the surrout distress and the leadership to develop interventions that distress and the leadership to with an overall prevalence at less than one-third. Moral distress and the mitigate work-relate distress and the motivative of 40%. Over one-late distress and the mitigate work-relate dis
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						career satisfaction."	univariate analyses, variables contributing to burnout varied by discipline; however, moral distress was a significant contributing factor for all providers. Those with burnout were more likely to report inadequate work—life balance and a low level of career satisfaction; however, overall there was a high level of career satisfaction across disciplines. Burnout, moral distress, and inadequate work—life balance existed at a variable rate in all HCT disciplines, yet career satisfaction was high."	
Oliver 2018	David Oliver: Moral distress in hospital doctors	Perspecti ve	NA	NA	Perspective article on moral distress on physicians and its effects.	NA	NA	"Jocelyn Cornwell cited as key factors in improving working conditions: shared

								values and mutual support in teams; managers being willing to talk openly and honestly about pressure (and finding ways to mitigate it); and low tolerance for poor behaviour. She also emphasised the behaviour of senior clinicians and managers—in role modelling, valuing, and engaging clinical teams—as being crucial to frontline staff. Maybe the starting point in handling moral distress in doctors and other health practitioners is to speak its name rather than play down its existence."
Pergert et al. 2018	Moral distress in paediatric oncology: Contributing factors and	Quantitati ve	11	NA	"To explore healthcare professionals' experiences of situations that generate moral	"In this national study, data collection was conducted using the Swedish Moral Distress	"The two situations with the highest moral distress scores concerned lack of competence and continuity of	"The two most morally distressing situations, lack of competence and continuity, are both organisational in

	group lifferences			distress in Swedish paediatric oncology."	Scale-Revised. The data analysis included descriptive statistics and non-parametric analysis of differences between groups."	personnel. All professional groups reported high levels of disturbance. Nurses rated significantly higher frequencies and higher total Moral Distress Scale scores compared to medical doctors and nursing assistants." "Lack of competence and continuity, as the two most morally distressing situations, confirms the findings of studies from other countries, where inadequate staffing was reported as being among the top five morally distressing situations. The levels of total Moral Distress Scale scores were more similar to those reported in	
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							than in other paediatric care settings."	
Pololi et al. 2019	Us, Too. Sexual Harassment Within Academic Medicine in the United States	Quantitati	7.5	NA	"We report on the extent of sexual harassment among residents and examine its relationship to specialty and program year and effects."	"Using the C-Change Resident Survey, we surveyed residents in 34 internal medicine, pediatrics, and general surgery programs in 14 academic medical centers (AMCs). A total of 1708 residents completed the survey (70% response-rate); 51% (n = 879) were women. Respondents reported unwanted sexual comments, attention, or advances by a superior or colleagues	"Rates of sexual harassment reported by women differed across the 34 programs, with an interquartile range of 0%-11%. Residents in pediatrics had the lowest frequencies of sexual harassment (mean 2%, 95% confidence interval [CI] 0%, 4%). Residents in internal medicine had higher rates of sexual harassment (mean 7%, 95% CI 1%, 25%). Residents in surgery had the highest rates (mean 12%, 95% CI 2%, 33%). Sexual harassment was associated with lower levels of vitality and higher ethical or moral	"Sexual harassment is more common for women residents in Internal Medicine and Surgery programs. The adverse effects of sexual harassment on female residents detracts from an institution's professional workforce."

						within the last 2 years. Measures of vitality and ethical or moral distress were included in the surveys."	distress (both, P b0.05)."	
Prentice & Gillam 2018	Can the Ethical Best Practice of Shared Decision- Making lead to Moral Distress?	Comment	NA	NA	"This paper will examine how the application of shared decision-making may contribute to the experience of moral distress for physicians and why such distress may go underrecognized. Appreciation of these dynamics may assist in cross-discipline sensitivity, enabling more constructive dialogue and collaboration."	NA	"This paper will argue that physicians can and indeed feel constrained in a way that causes them moral distress, and that the professional expectation to undertake shared decision-making is a key factor in this. Though shared decision-making is only one of many types of constraints physicians may feel it is a useful place to begin a dialogue about physician moral distress."	"While societal expectations of physicians' roles may change, the physician—patient relationship is likely to always remain central to medical professionalism. Recognizing and addressing the impact of this relationship on moral distress within the medical profession may go some way to improving ethical climate and ultimately patient care."
Prentice et al. 2016	Moral distress within neonatal and paediatric	Qualitativ e	NA	NA	"To review the literature on moral distress experienced	"Pubmed, EBSCO (Academic	"13 studies on moral distress published between January	"Moral distress affects the care of patients in the NICU

intensive care units: a	by nursing and medical professionals	Search Complete,	1985 and March 2015 met our	and PICU. Empirical data on
systematic	within neonatal	CINAHL and	inclusion criteria.	multidisciplinary
review	intensive care units	Medline) and	Fewer than half of	populations remain
	(NICUs) and	Scopus were	those studies (6)	sparse, with
	paediatric intensive	searched using	were	inconsistent
	care units (PICUs)."	the terms	multidisciplinary,	definitions and
		neonat, infant,		predominantly small
		pediatric,	of nursing staff	sample sizes limiting
		prematur or	responses across all	generalisability of
		preterm AND	studies. The most	studies. Longitudinal
		(moral distress	common themes	data reflecting the
		OR moral	identified were	views of all
		responsibility	overly 'burdensome'	,
		OR moral		including parents, are
		dilemma OR	use of technology	required."
		conscience OR	perceived not to be	
		ethical	in a patient's best	
		confrontation)	interest, and	
		AND intensive	powerlessness to	
		care."	act. Concepts of	
			moral distress are	
			expressed	
			differently within	
			nursing and medical	
			literature. In nursing	
			literature, nurses are	
			often portrayed as	
			victims, with	
			physicians seen as	
			the perpetrators	
			instigating	

							'aggressive care'. Within medical literature moral distress is described in terms of dilemmas or ethical confrontations."	
Prentice et al. 2020	How should neonatal clinicians act in the presence of moral distress?	Comment	NA	NA	Commentary based on a case of "Hannah was born at 23+1 weeks. At 2 weeks of age, Hannah developed severe necrotising enterocolitis requiring extensive resection of her small bowel."	NA	NA	"Moral distress is not necessarily an institutional failing. Rather, it may arise from personal values and professional obligations to respect parents as decision-makers for their child. Sometimes, action may be limited to finding meaning in our duty to care for patients and families, and to support our colleagues, despite differences of opinions. Sometimes, it may even mean accepting some degree of moral distress in order to uphold one's professional duty to ongoing care

								provision and the practice of shared decision-making."
Pye 2013	Exploring moral distress in pediatric oncology; a sample of registered practitioners	Qualitativ	NA	19	"The aim of this research was to explore perceptions of doctors and nurses working in an English regional pediatric oncology unit, regarding their lived experiences and feelings relating to the concept of moral distress. This was undertaken to illuminate the understanding of team dynamics and the impact that the causes and repercussions of moral distress may have on that team."	by the Heideggarian phenomenologic al approach and data analysis was undertaken using Colaizzi's (1978) phenomenologic al method for protocol	"Six main themes were identified expressing participants' experiences of morally distressing situations, with three warranting in depth exploration: "the importance of the decision-making processes," "conflict over right to treatment and withholding treatment," and "communication within the team.""	scenarios. The implications of this small study show benefits in sharing the
Redmann et al. 2016	Moral distress in pediatric otolaryngology: A pilot study	Quantitati ve	13	NA	"1. Determine the prevalence of moral distress for pediatric otolaryngologists at a	"Moral distress is defined as "when one knows the right	"Response rate was 89% (16/18). Overall MDS-R score was 40 (range	"Pediatric Otolaryngologists at our institution have lower degrees of

	tertiary medical center. 2. Evaluate the impact of demographic variables on moral distress levels."	constraints make it nearly impossible to pursue the right course of action". The Moral Distress Survey-Revised (MDS-R) is a validated 21-question survey measuring moral distress in pediatrics. The MDS-R was anonymously distributed to pediatric otolaryngology faculty and fellows at a tertiary institution. Descriptive	literature for pediatric surgeons (reported mean 72), pediatric intensivists (reported means 57– 86), and similar to pediatric oncologists (reported means 42– 52). Fellows had a significantly higher level of moral	Further research is necessary to determine degrees of distress across institutions and to determine its impact on the wellness of pediatric
		tertiary	administration/insur	
		statistics,	reduce costs.	
		bivariate and		
		multivariate		
		analysis were		
		performed."		

Rosenwohl -Mack et al. 2020	Understanding Experiences of Moral Distress in End-of-Life Care Among US and UK Physician	Qualitativ e	NA	24	"We investigated cultural factors in the US and the UK that may produce moral distress within their respective healthcare systems, as well as	"Semi-structured in-depth qualitative interviews about experiences of end-of-life care and moral	"Some drivers of moral distress were similar among US and UK trainees, including delivery of potentially inappropriate	"This research highlights how the differing experiences of moral distress among US and UK physician trainees are influenced by their
	Trainees: a				how these factors	distress" with	treatments, a poorly	countries' healthcare
	Comparative				shape experiences of	"sixteen internal	defined care	cultures. This
	Qualitative				moral distress among	medicine	trajectory, and	research illustrates
	Study				physician trainees."	residents in the	involvement of	how experiences of
						US and fourteen	-	moral distress reflect
							creating different	the broader culture in
						the UK."	care expectations. For UK trainees,	which it occurs and
							healthcare team	suggests how trainees may be particularly
							hierarchy was	vulnerable to it.
							common, whereas	Clinicians and
							for US trainees,	healthcare leaders in
							pressure from	both countries can
							families, a lack of	learn from each other
							guidelines for	about policies and
							withholding	practices that might
							inappropriate	decrease the moral
							treatments, and	distress trainees
							distress around	experience."
							physically harming	
							patients were	
							frequently cited. US	
							trainees described	
							how patient	
							autonomy and a fear	

							of lawsuits contributed to moral distress, whereas UK trainees described how societal expectations around resource allocation mitigated it."	
Roxanne et al. 2017	The Burdens of Offering: Ethical and Practical Considerations	Comment	NA	NA	"We reflect upon highlights of a facilitated panel discussion from the 2016 Pediatric Cardiac Intensive Care Society Meeting. The session was designed to explore challenges, share practical clinical experiences, and review ethical underpinnings surrounding decisions to offer intensive, invasive therapies to patients who have a poor prognosis for survival or are likely to be burdened with multiple residual	NA	"Key issues discussed included patient's best interests, physician obligations, moral distress, and communication in the context of decisions about providing therapy for patients with a poor prognosis."	"As outlined by the participants of the session, decision-making about offering therapies in the face of poor likelihood of good outcome is in itself burdensome. Careful reflection concerning the patient's best interests and potential future QOL are subjective and are better understood within the context of parental input regarding values, beliefs, and cultural preferences."

					comorbidities if survival is achieved."			
Rushton et al. 2013	A framework for understanding moral distress among palliative care clinicians	ary	NA	NA	"Our objective was to expand a social psychology model focusing on empathy and compassion in response to suffering to include an ethical dimension and to examine how the interrelationships of its proposed components can assist clinicians in understanding their responses to morally distressing situations."	NA	In the clinical context, responses to distressing events are thought to include four dimensions: empathy (emotional attunement), perspective taking (cognitive attunement), memory (personal experience), and moral sensitivity (ethical attunement). These dynamically intertwined dimensions create the preconditions for how clinicians respond to a triggering event instigated by an ethical conflict or dilemma. We postulate that if the four dimensions are highly aligned, the intensity and valence of emotional	conceptual framework offers a promising approach to designing interventions that help clinicians mitigate the detrimental consequences of unregulated moral distress and to build the resilience necessary to sustain themselves in clinical

							arousal will influence ethical appraisal and discernment by engaging a robust view of the ethical issues, conflicts, and possible solutions and cultivating compassionate action and resilience. In contrast, if they are not, ethical appraisal and discernment will be deficient, creating emotional disregulation and potentially leading to personal and moral distress, self- focused behaviors, unregulated moral outrage, burnout, and secondary stress.	
Rushton et al. 2013	Addressing moral distress: application of a framework to palliative care practice	Comment	NA	NA	The objective was to illustrate the application of this adapted conceptual framework to a clinical case and to	NA	"In the clinical case, clinicians are expected to respond to the patient's suffering based on four factors:	"Application of the proposed framework to a clinical case provides opportunities for understanding mechanisms of

	offer	empathy (emotional	
	recommendations for	attunement),	amenable to
	enlarging the	perspective taking	intervention and for
	professional	(cognitive	suggesting
	repertoire for	attunement),	appropriate
	responding to	memory (personal	alternative strategies
	challenging cases	experience), and	and practices. A full
	involving moral	moral sensitivity	understanding of the
	distress.	(ethical attunement).	process can help to
		Each of these	mitigate or to avoid
		interrelated and	the progression of
		J	distress and
			concurrently to
			appraise the situation
		patients with life-	that leads to moral
		limiting conditions.	distress or moral
		This creates the	outrage."
		foundations for	
		clinicians'	
		responses. When	
		responses risk	
		becoming aversive	
		in the face of moral	
		dilemmas, strategies are needed to foster	
		principled	
		compassion instead	
		of unregulated moral	
		outrage. A number of cognitive,	
		attentional,	
		affective, and	
		arrective, and	

							somatic approaches derived from contemplative traditions are consistent with the framework. Combined with a systemsfocused approach that incorporates organizational factors, they offer a means of improving professional repertoires for responding to difficult situations."	
Sajjadi et al. 2017	Moral distress and burnout in internal medicine residents	Quantitati	10.5	NA	"Residents frequently encounter situations in their workplace that may induce moral distress or burnout. The objective of this study was to measure overall and rotation-specific moral distress and burnout in medical residents, and the relationship between demographics and	Burnout Inventory (Human Service version) were administered to Internal Medicine residents in the 2013–2014	"Of the 88 residents, 45 completed the surveys. Participants (mean age 30±3; 46% male) reported a median moral distress score (interquartile range) of 77 (50–96). Twenty-six percent of residents had considered quitting because of moral distress, 21% had a high level of	"Internal Medicine residents report moral distress that is greatest during ICU and CTU rotations, and is associated with burnout and intention to leave the job."

					moral distress and burnout."	British Columbia."	burnout, and only 5% had a low level of burnout. Moral distress scores were highest during Intensive Care Unit (ICU) and Clinical Teaching Unit (CTU) rotations, and lowest during elective rotations (p<0.0001). Women reported higher emotional exhaustion. Moral distress was associated with depersonalization (p=0.01), and both moral distress and burnout were associated with intention to leave the job."	
Salehi et al. 2020	Consequences of Medical Hierarchy on Medical Students, Residents, and Medical	Qualitativ e	NA	NA	"(1) clarify the concept of medical hierarchy; (2) examine the role of medical hierarchy in medical education and resident training; (3) discuss the potential	Literature review	"Two types of hierarchies exist: "functional" and "dysfunctional." While functional medical hierarchies aim to optimize patient care through	"1) Paradigm shift in relationship between trainees and leaders to "just culture," in which trainees are not punished for expressing concerns and viewpoints. 2)

	Education in Otolaryngology				negative impacts of dysfunctional hierarchies, with a critical focus on the field of otolaryngology"		clinical instruction, dysfunctional hierarchies have been linked to negative impacts by creating learning environments that discourage the voicing of concerns, legitimize trainee mistreatment, and create moral distress through ethical dilemmas."	Organizations should promote the individual and personal lives of its trainees where possible, since residents who are physically and mentally well improve patient care."
Sanderson et al. 2019	Re-defining moral distress: A systematic review and critical reappraisal of the argument-based bioethics literature	Qualitativ	NA	NA	"There is a large body of literature associated with moral distress, yet multiple definitions now exist, significantly limiting its usefulness."	"We undertook a systematic review of the argument-based bioethics literature on this topic as the basis for a critical appraisal, identifying 55 papers for analysis."	"We found that moral distress is most frequently framed around individual experiences of distress in relation to local practices and constraints, and understood in terms of power relations and workplace hierarchies. This understanding is directly derived from, and often still seen as specific to, nursing. Frequently	"Based on our review, we propose a redefinition of moral distress: 'Ethical unease or disquiet resulting from a situation where a clinician believes they have contributed to avoidable patient or community harm through their involvement in an action, inaction or decision that conflicts with their own values'. This definition is specific

							the perspective of the morally distressed individual is privileged."	enough for research use, anchored in clinicians' professional responsibilities and concerns about harms to patients, framed relationally rather than hierarchically, and amenable to multiple perspectives on any given morally distressing situation."
Shahla et al. 2017	Having it all-Burnout and Moral Distress in Working Female Physicians in a Developed Asian Country	Quantitati	7	NA	"Our objectives were to study the incidence of burnout and moral distress amongst working female physicians using evidence based criteria in a developed Asian country."	out an anonymous	"Our results show a 54% rate of burnout and an 8% rate of self-harm consideration. Family pressures and poor work life balance as well as motivational factors at work seem to be major contributors to this."	"This simple survey self-reported study gives a glimpse into the association between female physicians and burnout in Singapore healthcare context, and the fact that such a phenomenon can potentially have a devastating effect on mental health, physical health and family's lives of these working female physicians."

Sheffield & Smith 2016	Requests for VIP Treatment in Pathology: Implications for Social Justice and Systems- Based Practice	Comment	NA	NA	"Preferential treatment of patients whom we deem "very important" is a practice that is common in our health care system. The impact of this designation and the care that results is rarely studied or scrutinized. Although we assume that this type of treatment results in superior outcomes, this assumption can be wrong for a variety of reasons, which we discuss here."	NA	"Preferential treatment of VIPs can either be blatant, as in the case of celebrities or donors, or more insidious, as when members of the health care team are expected to treat other physicians or their family members preferentially. When confronted with the care of a VIP patient, we, as clinicians, feel pressure to provide care that is seamless, hassle-free, and error-free. Although this is what we want for all of our patients, we believe that such care is impossible in our current system, and so we try to circumvent the problems that we know exist. In trying	VIP's care on a case- by-case basis. Instead, institutions should actively discourage any systematic prioritization of VIP patients. Development offices should not facilitate scheduling or be allowed to interfere with policies and procedures that apply to patients served by an institution. Hospital administrators and
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							to rectify the inefficiencies and problems that we know about in treating VIPs, however, we might bypass standard protocols and create new problems with "work-arounds," actually increasing potential for error and harm."	
Smith 2013	Moral distress in academic medicine: my brother's keeper?	Comment	NA	NA	Perspective article which describes an encounter with a junior resident who had concerns about "the pathologists at another institution were not grading one type of cancer the way that they had learned to do this at our hospital".	NA	NA	"Encouraging open discussions of issues and errors, however, is a good starting point. There is no shame in sharing ways to improve our practice. We are, after all, only human."
St Ledger et al. 2017	Doctors' experiences of moral distress in end-of-life care decisions in the	Qualitativ e	NA	17	"To explore moral distress in relatives doctors and nurses, in end-of-life care decision-making, in	"In-depth digitally recorded interviews will be conducted with relatives,	"This is the first time that moral distress is explored, in a case approach, among relatives, doctors, and nurses	"Dissemination of findings will make a large contribution to international knowledge and understanding in this

intensive care	the adult intensive	doctors, and	intimately involved	area and alert HCPs
unit	care unit."	nurses involved	in end-of-life	and relatives to an
		in end-of-life	decisions in	otherwise under-
		cases	intensive care.	recognized, but
		comprising: (1)	Dissemination of	potentially
		withdrawal of	findings will make a	detrimental,
		therapy,		experience. Findings
		including	international	will be used to inform
		circulatory death	knowledge and	education, practice,
		organ donation;	understanding in this	and policy. Taking
		(2) non-	area and alert	part in the study and
		escalation of	healthcare	donating interviews to
		therapy; and (3)	professionals and	HTO will provide
		brain stem death	relatives to an	participants an
		with a request	otherwise under-	opportunity to share
		for organ	recognized, but	experiences with
		donation.	potentially	others going through
		Relatives will be		similar experiences.
		offered the		_
		opportunity to	will inform	research will be used
		share their	education, practice,	to inform clinical and
		experiences on	and policy."	university-based
		'Healthtalkonlin		multidisciplinary
		e' by		education
		copyrighting		programmes to
		audio-visual		benefit future ICU
		interviews to the		patients and relatives,
		Health		and HCPs caring for
		Experiences		them. It is anticipated
		Research Group,		that this in turn will
		Oxford		positively influence
		University.		clinical practice and

						Research Ethics Committee approval was obtained (April 2012)."		inform future research and understanding. New insights will advance the concept of moral distress. The study findings and recommendations will be of interest to others beyond the realms of ICU and may inform organi- zational and strategic policy development. This study will also report on the usefulness and limitations of narrative methods in this area."
Stephen 2019	Palliative Care and Communication Training in Neurosurgery Residency: Results of a Trainee Survey	Mixed methods	12	13	"Neurosurgeons care for critically ill patients near the end of life, yet little is known about how well their training prepares them for this role. We surveyed a random sample of neurosurgery residents to describe the quantity and quality of teaching activities related to	"A previously validated survey instrument was adapted to reflect required communication and palliative care competencies in the 2015 the Accreditation Council for Graduate Medical	"Sixty-two responses were recorded between August 2016 and October 2016. Most respondents reported no explicit teaching on: explaining risks and benefits of intubation and ventilation (69%), formulating prognoses in neurocritical care	"Residents in our sample reported limited formal training, and relatively less observation and feedback, on required ACGME competencies in palliative care and communication. Most reported preparedness in this domain, but many were receptive

communication and palliative care, and resident attitudes and perceived preparedness to care for seriously ill patients." Communication and palliative care, and resident attitudes and perceived preparedness to care for seriously ill patients." Communication and palliative care, and resident attitudes and perceived preparedness to care for seriously ill patients." Communication and palliative care, and residents and the preparedness to care for seriously ill patients." Communication and palliative care, and wild sturious performing performing craniotomies, respondents had less reviewed for content validity leading discussions about withdrawing neurosurgeons, piloted with graduating neurosurgical residents, and distributed observed (18% vs. online in August 2016 to neurosurgery residents in the United States 0.01). Nearly all using the American Association of Neurological life-sustaining surgeons treatments." Communication and previous fination performing crainotomies, erapiondents had less frequent practice leading discussions about withdrawing life-sustaining meterosuries. Compared to performing crainotomies, respondents had less reviewed for content validity leading discussions about withdrawing life-sustaining treatments.
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						and Critical Care email listserv. Multiple choice and Likert scale responses were analyzed using descriptive statistics."	residency." Most (87%) reported moral distress, agreeing that they "participated in operations and worried whether surgery aligned with patient goals." "	
Thomas et al. 2016	A Qualitative Study Exploring Moral Distress Among Pediatric Resuscitation Team Clinicians: Challenges to Professional Integrity	Qualitativ	NA	19	"Our study objectives were to explore moral distress among pediatric team clinicians within the context of resuscitation experiences, and determine whether there were any distinctively ethical perspectives on moral distress that could be conceptualized as challenges to professional integrity, rather than to previously described psychological responses of clinicians."	"Twenty-five PICU resuscitation team clinicians were interviewed from December 2012 to April 2013."	"All clinicians reported experiencing moral distress during certain resuscitations. Twenty-one of 25 clinicians reflected and acknowledged that their sense of professional integrity had been challenged during those resuscitation events. Four main components of resuscitation experience that induced moral distress were identified: 1) experiences where there was lack of	"The perception of moral distress exists among pediatric clinicians during resuscitations and could be conceptualized as challenges to professional integrity. This ethical framework offers an alternative approach to understanding and investigating the complex layers of moral distress."

							understanding of the big picture; 2) experiences where there was suboptimal team leadership; 3) experiences where there was variable meanings to the word "resuscitation"; and 4) experiences were there was uncertainty of role responsibility."	
Tigard 2017	Rethinking moral distress: conceptual demands for a troubling phenomenon affecting health care professionals	Comment	NA	NA	"Make clear what a robust account of moral distress should be able to explain and how the most common notions in the existing literature leave significant gaps"	NA	"Jameton, Wilkinson and Corley's early and most influential definitions of moral distress are incomplete, with a a number of important desiderata for a robust account not fully satisfied"	"An explanatorily satisfying conception of MD is still needed."
Traudt & Liaschenk o 2017	What Should Physicians Do When They Disagree, Clinically and	Comment	NA	NA	"This article addresses the virtues and communication strategies needed to respond appropriately	NA	NA	"Good moral communicative work can help mitigate moral distress. However, even the

	Ethically, with a Surrogate's Wishes?				in such situations. Specifically, we offer a framework and language that rely on moral community to facilitate common ground and alleviate moral distress."			most virtuous and skilled communicator may not be able to move the patient's wife from her position. This could be the case even after ethics consultation resources have been utilized. When such a disagreement occurs, it is important to recognize and acknowledge that the moral community of caregivers might need to cope with the tragedy of providing aggressive treatment that prolongs a patient's suffering."
Trotochau d et al. 2015	Moral Distress in Pediatric Healthcare Providers	Quantitati ve	11	NA	"The objectives of this study are: (1) to determine the degree of moral distress experienced by pediatric providers from different professional groups and working in different clinical settings; (2) to	"A descriptive study on moral distress in pediatric providers was conducted in April and May 2012. The setting was a large pediatric health system in	"A direct relationship was found between high MDS and respondents stating that they had left or considered leaving a clinical position. Greater than a third (n = 308, 35.7%) of respondents reported	"In conclusion, the purpose of this study was to more fully assess the degree of moral distress experienced by different pediatric providers in a variety of clinical settings, including moral distress experienced

	distress to pediatric provider intent to leave; and (3) to identify specific situations more likely to be associated with pediatric provider moral distress."	chat includes three children's chospitals with 60 pediatric specialties. A convenience sample included all registered converses providing direct patient care (n = 1765); attending chysicians with admitting crivileges, subspecialty fellows, and codiatric residents (n = 650); and other confessionals including respiratory cherapists, social workers, chysical cherapist, and other healthcare croviders (n = 650); and other confessionals including respiratory cherapists, social workers, chysical cherapist, and other healthcare croviders (n = 650); and other conviders (n = 650); and other confessionals concluding respiratory cherapists, social confessionals co	clinical position because of moral distress. The average MDS was statistically higher for those who considered leaving	settings. Using the results of this study, pediatric organizations can begin to develop context-specific interventions to address provider moral distress. Strategies may be created that help providers recognize morally distressing situations when they experience them, offer providers proactive and in-the-moment tools to address these situations, and support providers through morally challenging and unalterable situations when there is no way to change the course of action."
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						survey was sent via e-mail and providers were invited to complete the survey through a direct link to SurveyMonkey ®. Participants were given 6 weeks to complete the survey with reminders sent to non-respondents at 2 and 4 weeks."		
Vincent et al. 2020	Moral distress perspectives among interprofessional intensive care unit team members	Qualitativ e	NA	14	"To examine interprofessional healthcare professionals' perceptions of triggers and root causes of moral distress."	"A subset of interprofessional providers from a parent study provided opentext comments that originated from four areas of the Moral Distress Scale—Revised, including the margins of the 21-item questionnaire,	medical center intensive care units reported feelings of moral distress. Feelings of moral distress were associated with professional anguish over patient care decisions, team, and	"Moral distress was associated with feelings of anguish, professional intimidation, and organizational factors that impacted the delivery of ethically based patient care. Participants expressed a sense of awareness that they may experience ethical dilemmas as a consequence of the

						the designated open-text section, shared perceptions of team communication and dynamics affecting moral distress, and the section addressing an intent to leave a clinical position because of moral distress. Open-text comments were captured, coded, and divided into meaning units and themes using systematic text condensation."	system constraints impeding reliable patient care delivery."	of all healthcare providers."
Weissman 2009	Moral Distress in Palliative Care	Perspecti ve	NA	NA	Opinion piece of a palliative care consultant	NA	"I do not believe moral distress is inevitable, the degree to which one becomes distressed is likely to follow a	"My hope is that through better awareness of the problems we face, we can learn to channel our moral distress into

							bell-shaped curve related to personality traits, coping styles, past experiences, and concurrent stressors."	positive acts of system change leading to better care for patients and greater peace for ourselves."
Westling et al. 2017	Perceived Ethics Dilemmas Among Pioneer Accountable Care Organizations	Qualitativ	NA	22	"The purpose of our study was to more fully understand the various domains of ethical dilemmas present in organizations participating in the Pioneer ACO model of care. The Pioneer program is of particular interest because it was designed for leading health systems to be early adopters of the ACO model."	"Semistructured interviews with key informants at 7 Pioneer ACOs"	"The ACO model is creating moral distress for physicians and business leaders in seven critical ways: 1. Incompatible reimbursement models 2. Two standards of clinical care 3. Financial incentives versus patient choice 4. "Best" care disagreements 5. Required ACO metrics versus evidence-based care 6. Shifting resources to focus on prevention 7. Limited support systems for resolving ethical conflicts"	"Engaging physicians in developing compensation plans, looking to specialty societies for best practice guidance, accepting limited numbers of non-ACO patients in ACO care management programs, and linking quality improvement efforts to resolve systemic issues. However, few of the sites have proactively addressed ethics at the organizational level in a deliberate, coordinated way."

	Moral distress among healthcare professionals: report of an institution-wide survey	Quantitati	NA	11	"Moral distress is a phenomenon affecting many professionals across healthcare settings. Few studies have used a standard measure of moral distress to assess and compare differences among professions and settings."	"Data were gathered via a web-based survey of demographics, the Moral Distress Scale-Revised (MDS-R), and a shortened version of Olson's Hospital Ethical Climate Scale (HECS-S)."	"Moral distress was present in all professional groups. Nurses and other professionals involved in direct patient care had significantly higher moral distress than physicians (p = .001) and other indirect care professionals (p < .001). Moral distress was negatively correlated with ethical workplace climate (r = -0.516; p < .001). Watching patient care suffer due to lack of continuity and poor communication were the highest-ranked sources of moral distress for all professional groups, but the groups varied in other identified sources. Providers working	"Although there may be differences in perspectives and experiences, moral distress is a common experience for clinicians, regardless of profession. Moral distress is associated with burnout and intention to leave a position. By understanding its root causes, interventions can be tailored to minimize moral distress with the ultimate goal of enhancing patient care, staff satisfaction, and retention."
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							in adult or intensive care unit (ICU) settings had higher levels of moral distress than did clinicians in pediatric or non-ICU settings (p < .001). Providers who left or considered leaving a position had significantly higher moral distress levels than those who never considered leaving (p < .001). Providers who had training in end-of-life care had higher average levels of moral distress than those without this training (p = .005)."	
Wocial et al. 2017	Pediatric Ethics and Communication Excellence (PEACE) Rounds: Decreasing Moral Distress	Quantitati ve	7.5	NA	"This article reports the evaluation of this practice innovation project aimed at reducing moral distress of healthcare providers in a PICU. We evaluated the	"Over a year, weekly meetings (PEACE rounds) to establish goals of care for patients with longer than 10	intermittently with the MDT fluctuated.	"The addition of a clinical ethicist and senior intensivist to weekly interprofessional team meetings facilitates difficult conversations regarding realistic

Wocial et	and Patient Length of Stay in the PICU	Quantitati	13	NA	impact of the project on staff and on the target patient population (patients with extended ICU length of stay)."	days length of stay in the ICU."	to moral distress. Post intervention, overall MDS-R scores were lower for respondents in all categories (nonsignificant), and on three specific items (significant). Patient outcomes before and after PEACE intervention showed a statistically significant decrease in PRISM indexed LOS (4.94 control vs 3.37 PEACE, p=0.015), a statistically significant increase in both code status changes DNR (11% control, 28% PEACE, p=0.013), and in-hospital death (9% control, 25% PEACE, p=0.015), with no change in patient 30 or 365 day mortality."	goals of care. The PEACE intervention had a positive impact on some factors that contribute to moral distress and can shorten PICU length of stay for some patients."
al. 2020	associated with	ve	13	INA	frequency of and	survey of	experienced moral	distress occurs more

ph	hysician moral	factors associated	"physicians	distress in the care	frequently when the
di	istress caring	with physicians'	(n = 154) caring	of 152 of 362	physician is male, the
fo	or hospitalized	moral distress caring	for patients aged	patients (42.0%).	patient is older or
ele	derly patients	for patients requiring	65 years and	Physicians were	requires decisions
ne	eeding a	a surrogate."	older and their	more likely to	about life-sustaining
	ırrogate		surrogate	experience moral	treatments. These
de	ecision-maker:		decision-makers	distress when caring	findings may help
a	prospective		(n = 362)	for older patients	target interventions to
	udy		patient/surrogate	(1.06, 1.02-1.10),	support physicians.
			dyads). Patients	and facing a	Prior discussions
			were admitted to	decision about life-	about patient wishes
			medicine or	sustaining treatment	is associated with
			medical	(3.58, 1.54–8.32).	lower distress and
			intensive care	Physicians were less	may be a target for
			services, lacked	likely to experience	patient-centered
			decisional	moral distress when	interventions."
			_ ·	caring for patients	
			an identified	residing in a nursing	
			surrogate."	home (0.40, 0.23–	
				0.69), patients who	
				previously discussed	
				care preferences	
				(0.56, 0.35-0.90),	
				and higher surrogate	
				ratings of emotional	
				support from	
				clinicians (0.94,	
				0.89–0.99).	
				Physicians' internal	
				discordance when	
				they prefer a more	
				comfort-focused	

							plan than the patient is receiving was associated with significantly higher moral distress (2.22, 1.33–3.70) after adjusting for patient, surrogate, and physician characteristics."	
Zimmerma nn et al. 2019	Factors That Impact Moral Distress for Surgeons Caring for Older Adults with Life- Limiting Acute Surgical Conditions	Qualitativ e	NA	NA	"Our objective was to understand the relationship between factors that promote nonbeneficial surgery and moral distress in surgeons caring for older adults with life- limiting surgical conditions."	survey, which included questions	"The adjusted response rate was 53%. Eighty percent of surgeons reported respecting a family's request for surgery when they believed surgery was not in the patient's best interests as very or somewhat distressing, and nearly half reported that this occurs sometimes or often in their practice. Surgeons who believed their role in surgical decision making was to offer choices and let the	

						association between system, surgeon, and family-related factors that influence nonbeneficial surgery and moral distress reported by respondents."	patient or family choose were more likely to report moral distress (p = 0.004); surgeons who believed they were ultimately in control of preventing nonbeneficial surgery were less likely to report moral distress (p < 0.001)."	
Zimmerma nn et al. 2020	The association between factors promoting non-beneficial surgery and moral distress: A national survey of surgeons	Quantitati	12.5	NA	"To assess the prevalence of moral distress among surgeons and test the association between factors promoting non-beneficial surgery and surgeons' moral distress."	"We mailed surveys to 5,200 surgeons randomly selected from the American College of Surgeons membership, which included questions adapted from the revised Moral Distress Scale. We then analyzed the association between factors	"The weighted adjusted response rate was 53% (n=2,161). Respondents whose decision to offer surgery was influenced by their belief that pursuing surgery gives the patient or family time to cope with the patient's condition were more likely to have high moral distress (34% vs 22%, p<0.001), and this persisted on	"Surgeons experience moral distress when they feel pressured to perform surgery they believe provides no clear patient benefit. Strategies that empower surgeons to recommend non-surgical treatments when they believe this is in the patient's best interest may reduce non-beneficial surgery and surgeon moral distress."

not associated with		surgery to seriously ill older adults a	fer (OR 1.44, 95% CI 1.02-2.03). Time required to discuss and non-operative treatments or the consulting intensivists' endorsement of operative intervention, were	
not associated with high surgeon moral distress."			not associated with high surgeon moral	