

Ethical framework for head and neck cancer care impacted by COVID-19

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Abstract

The COVID-19 pandemic has upended head and neck cancer care delivery in ways unforeseen and unprecedented. The impact of these changes parallels other fields in oncology, but is disproportionate due to protective measures and limitations on potentially aerosolizing procedures and related interventions specific to the upper aerodigestive tract. The moral and professional dimensions of providing ethically appropriate and consistent care for our patients in the COVID-19 crisis are considered herein for head and neck oncology providers.

KEYWORDS

cancer ethics, COVID-19, head and neck cancer, professional duty to treat, public health ethics

1 | INTRODUCTION

The COVID-19 pandemic continues to evolve and commandeer all aspects of clinical management.¹ The impact upon head and neck oncologic care might lead to delayed diagnoses, treatment, and surveillance in a manner that threatens optimal outcomes and survival for untold patients.² How this will directly influence multi-disciplinary care in widely divergent settings remains unknown and uncharted.³ Head and neck cancer providers will be constrained in their ability to provide vulnerable patients with the attention and care they require, and will likely experience moral distress when routine management is all but impossible. These

feelings may be amplified by conflict between a duty to care for patients and a duty to protect others by avoiding high-risk exposures. This article is designed to provide a guide to the ethical issues inherent to care delivery in the current COVID-19 era.

1.1 | Conflicting duties

One of the major challenges specific to head and neck cancer during this pandemic involves the significant risk associated with examination, biopsy, and treatment of pathology arising in the upper aerodigestive tract. Health care workers constituted a large percentage of the first cohort of infected patients. Potential aerosolization of SARS-CoA-2 virions hinders our ability to conduct routine management and requires extra resources and time to perform what before were routine examinations, endoscopy, biopsy, and surgery. Recent publications echo and reinforce the related dimensions of infection control,

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safety, and resource stewardship.⁴ Airway management represents a discrete consideration in routine, urgent, and emergent settings, and newly published guides are also instructive.⁵ All of these reaffirm the importance of protecting patients as well as clinical staff from unnecessary exposure. Indeed, protections of the clinical workforce and public are fundamental ethical and professional responsibilities. However, the balance between our duty to care for patients with our duty to protect ourselves and our colleagues is not clear.

The American Head and Neck Society has a dynamic online resource for head and neck oncology providers.⁶ The American Academy of Otolaryngology - Head and Neck Surgery Foundation's related position statement affirms the need to avoid all clinical interactions which are not urgent/emergent, but "recognizes that 'time sensitivity' and 'urgency' are determined by individual physician judgment and must always take into account each individual patient's medical condition, social circumstances, and needs."⁷ Other societies have produced COVID-19-related resources and guidance that are also informative. The American College of Surgeons' dedicated website clarifies the importance of delaying/deferring nonessential operations, and offers comprehensive support, including patient-facing messages which may be valuable to head and neck surgical oncology practices.⁸ The Society for Surgical Oncology recommends that "urgent procedures... should be carefully considered for delay on a case-by case basis... and diagnoses which have equivalent results with radiation therapy and surgery should be considered for radiation therapy."⁹ The American Society of Clinical Oncology has general guidance for cancer providers and patients to avoid in-person encounters whenever possible, but the organization does not offer guidance specific to management of specific cancers.¹⁰

Although the duty to the patient is a cornerstone of the medical profession, it should not trump our duty to care for ourselves and those around us. Head and neck cancer practitioners should recognize the stress of the current situation on themselves, practice diligent self-care, and liberally seek counsel among colleagues, loved ones, and professionals.

1.2 | Individual vs population interests

It is clear that we need to collectively limit face-to-face encounters, and do our part to flatten the epidemiological curve to protect our collective patient populations, providers, and society at-large. Demonstrably worsened clinical outcomes among patients with cancer who contract COVID-19 underscore this risk.¹¹ We also know that

delaying head and neck cancer evaluation and management will undoubtedly impact oncologic and functional outcomes, and patients and providers alike will bristle when facing such postponements.

The principles of medical ethics, broadly speaking, require us to consider patient preference, maximizing benefit, minimizing harm, and being deliberative and fair.¹² The challenge of the current COVID-19 pandemic is that honoring these principles as resources becomes scarce or nonexistent will lead to intrinsic conflict. There will be instances when we cannot grant specific individual requests or focus on a specific patient's needs in a manner that supersedes the obligation to protect populations and to conserve resources necessary for others. This highlights the tension between "clinical ethics" and "public health ethics."¹³ The former, which is familiar to most clinicians, focuses on the primacy of the doctor-patient relationship in formulating evidence-based and individualized treatment paradigms designed to maximize the best outcome for a specific patient. In contrast, public health ethics concentrates on the needs and interests of populations, even if that might negatively impact specific individuals.

Such a paradigm shift might be difficult for individual head and neck cancer providers to accept, and explains the intense challenges facing us all. When we shift from a clinical ethics framework to a public health framework, it is important that we do not force individual clinicians to ration at the bedside, but rather, institutions that are charged with caring for communities must take the lead. Our oncology community will need to discern when the needs of populations outweigh the needs of individuals, potentially leading to treatment delays or nonstandard treatment paradigms.

Since surgical manipulation of the upper aerodigestive tract now poses new risks and requires additional resources, the weighting of treatment choices will change. Specifically, when nonsurgical modalities are superior to surgery, the choice is easy. In cases in which these choices are either neutral or preference-sensitive, nonsurgical approaches should be recommended. However, for conditions in which surgery is clearly preferred or is the sole option, proceeding with an operation might carry considerably more risks and tradeoffs than in the pre-COVID-19 era. Relative urgency related to estimated tumor progression and risk of delay is another metric for triage. This is not to state that such tradeoffs cannot be justified, but rather than clinicians will need to recognize that choices for individual patients will be made based upon the needs of others in ways we do not normally consider. Complicating the situation, we will also need to factor in the finite availability of nonsurgical

resources and the limited number of skilled personnel necessary to deliver the selected care safely and appropriately. Nonsurgical modalities also require repeated and uninterrupted visits over extended periods of time that serve as a potential vector to other populations of clinical staff and oncology patients seeking similar nonsurgical therapies.

This does not obviate our ethical responsibility to our patients, though. Even though we might not be able to provide the same level of care or be able to see patients face to face, this does not prevent us from maintaining productive doctor-patient relationships. Patients and survivors are often intensely vulnerable and they deserve support, counseling, and reassurance for cancer control and symptom management as much as ever. Utilization of virtual care can be invaluable to counsel our patients and ensure they do not feel abandoned.¹⁴

1.3 | Consistency as an ethical tenet

The multidisciplinary nature of head and neck cancer care is both an advantage and vulnerability in the COVID-19 era. Multiple treatment paradigms and the networks of clinicians create systemic redundancy and options, all of which are welcome. However, this also can create conflicting, disparate perspectives, and approaches, both at societal/national levels and for individual care teams.

Major ethical concerns arise when dissimilar treatment approaches are offered to similar groups in different locations. Even if a provider or group is consistent in their practice and treatment algorithms for a specific, discrete population of patients, other providers might employ consistent but fundamentally different approaches, thus creating different care approaches that are inconsistent with ethical principles of justice and fairness.

The solution to this dilemma is to ensure consistent evidence-based approaches as best as possible, considering the systematic issues. Within our sphere of influence, it is essential that we form consensus approaches to head and neck cancer management. Also, given that resource allocation and safety will impact care decisions, these best consensus approaches may require revision. At the institutional level, this requires providers to collaborate and consider how best to maintain care paradigms. For example, it would be inappropriate for individual surgeons to decide to operate on all oropharyngeal cancers without proactively unifying the broad approach with radiation and medical oncology colleagues, whether they are part of the same institution or part of a broader

referral network. Individual patients can and should still be discussed in multidisciplinary tumor boards, but this does not replace a more cogent and cohesive approach to disease management.

Limited capacity for treatment (regardless of modality) will also impact decisions. Scarce resource allocation with regard to ventilators and ICU beds for patients with COVID-19 is in the spotlight, but the principles similarly apply to cancer care resources if and when they are also insufficient.¹⁵ The selection of ablative and reconstructive procedures that avoid the use of ICU beds is an example. In short, this requires explicit, consistent, evidence-based and objective standards, transparency, and involvement of all necessary stakeholders. Such protocols must responsibly utilize and preserve vital resources, and frame treatment that aligns as much as possible with current best practice.

Some populations have been victims of cultural, racial, geographic, and economic discrimination for generations and societal stress points such as pandemics can worsen both explicit and implicit biases.¹⁶ Health care providers must deliberately partner with underrepresented groups to assure that the risks of care disparities are minimized in the face of crisis.

1.4 | Clinical research

Clinical oncology research trials in the era of COVID-19 can continue in some instances and ethical guidance is available.¹⁷ Trials can be stratified by trial phase, disease site/stage/histology, and treatment intent as well as how these options would compare with clinical care off-trial. Trials with a high likelihood of benefit should proceed although they may need modification after consideration of the added burdens, risks, and trial-specific testing and face-to-face interactions. For trials without clear benefits to the participant, continued enrollment into the trial is viewed in the context of the potential for generalizable knowledge afforded by the data generated. For head and neck cancer specifically—in everything from investigator-initiated to cooperative trials—risks, benefits, and tradeoffs should be assessed, knowing that every intervention and instrumentation of the upper aerodigestive tract poses a risk to patients, subjects, and providers alike.

Regulatory and funding agencies have provided resources to assist. The National Cancer Institute has issued specific guidance for federally funded cancer trials,¹⁸ and the National Institutes of Health has broader resources available for clinical researchers.¹⁹ In addition, specific FDA guidance will be of value for those trials involving their regulatory oversight.²⁰

2 | CONCLUSION

In summary, COVID-19 threatens the very essence of head and neck cancer care delivery and puts both patients and providers at significant risk for additional foreseen and unforeseen morbidities and mortality. This creates a significant and previously unknown barrier to care that must be acknowledged and addressed as an ethical challenge, both as we care for individuals and fulfill our responsibilities to society. The importance of open and honest communication, consistent multidisciplinary planning and messaging, and adoption of novel treatment approaches will be essential.

The practice of head and neck oncology has always been shaped by disease factors and the complex context in which our patients require care. Collectively, our diverse community can and will meet these new travails with the alacrity, creativity, and commitment for which we pride ourselves.

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CONFLICT OF INTEREST

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