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Okay, so you've bravely embraced braces! Kudos to you, future smile champion. But let's be real, life with brackets and wires presents a whole new level of dental diligence. That's where regular checkups become absolutely crucial, especially when it comes to maintaining optimal oral hygiene. Orthodontic treatments can improve speech and chewing functions **Early orthodontic intervention** dental braces. Think of it this way: your orthodontist is now your co-pilot on this journey to a straighter smile. They're not just adjusting your wires; they're also your frontline defense against the plaque and bacteria that love to party in those hard-to-reach places around your braces.

During these checkups, they'll give your mouth a thorough inspection, identifying any potential problem areas you might be missing with your toothbrush and floss. They can show you specific techniques to clean around brackets, under wires, and those tricky spots between your teeth – maybe even recommend specialized tools like interdental brushes or water flossers. It's not just about lecturing you on brushing; it's about providing personalized guidance tailored to your unique brace setup and oral health needs.

And honestly, let's face it, even with the best intentions, plaque buildup happens. Your orthodontist can professionally clean those areas that are proving stubbornly resistant to your at-home efforts. This helps prevent cavities, gum disease, and those dreaded white spots that can appear when braces come off. Essentially, regular checkups are your insurance policy against developing other dental issues while you're already investing in a beautiful, straighter smile. They ensure that when those braces finally come off, you're not just revealing perfectly aligned teeth, but also a healthy and happy mouth ready to shine.

So you're rocking braces, aligners, or any other orthodontic magic to straighten your smile. Awesome! But here's the thing: while your orthodontist is busy perfecting your bite, your regular dentist is your secret weapon for making sure that journey stays smooth and complication-free. Think of it this way: early detection of dental issues that can complicate orthodontic treatment is absolutely key. Imagine developing a sneaky cavity under a bracket. Ouch, right? Or how about gum disease quietly brewing, potentially weakening the support for your teeth just when they're being shifted? A regular dental checkup acts like a vigilant scout, spotting these potential troublemakers before they can throw a wrench in your orthodontic progress. Your dentist can catch these issues early – cavities, gum disease, even impacted teeth – and address them promptly. This prevents delays in your orthodontic treatment, avoids potentially more invasive (and expensive!) procedures down the line, and most importantly, keeps your mouth healthy throughout the entire process. It's a team effort, really, between your orthodontist and your dentist, all working towards that dazzling, healthy smile you're dreaming of.

## \* Protecting the investment made in orthodontic treatment.

Orthodontic treatment is a fantastic investment in your smile, but those brackets and wires can create extra nooks and crannies where plaque loves to hide. That's why regular dental checkups become even more crucial during this time. Think of it this way: your orthodontist is straightening your teeth, but your general dentist is your defense against enamel damage and tooth decay creeping in around those appliances. They're the ones who can spot the early signs of trouble, like decalcification (those chalky white spots that appear on enamel), and take steps to prevent it from turning into full-blown cavities. Regular cleanings remove the plaque and tartar your toothbrush might miss, especially around brackets. Fluoride treatments strengthen the enamel and make it more resistant to acid attacks from bacteria. Your dentist can also give you personalized advice on brushing, flossing, and using special tools like interdental brushes to keep everything sparkling clean. Basically, they're your partner in making sure you finish your orthodontic journey with a straight, healthy, and decay-free smile. So, don't skip those checkups!





## \* Ensuring the long-term stability of the bite and smile.

Okay, so you're going through treatment – whatever it may be – and thinking about squeezing in another appointment probably feels like the last thing you want to do. But trust me on this one: regular dental checkups are even MORE vital when you're already dealing with health challenges. Think about it. Your body's probably under a bit of stress, and that can affect your

One of the big things your dentist keeps an eye on is your gum health. Monitoring gum health and preventing gingivitis isn't just about having a pretty smile (though that's a nice bonus!). It's about preventing a whole cascade of problems. We want to catch any signs of inflammation or bleeding early. Gingivitis, that initial stage of gum disease, can sneak up on you. If it's left unchecked, it can progress to periodontitis, which can damage the bone and tissues that support your teeth.

And why is that a big deal during treatment? Well, inflammation in your mouth can actually impact your overall health and potentially interfere with how your body responds to your primary treatment. Plus, infections in your mouth can weaken your immune system, making you more vulnerable to other illnesses. A healthy mouth contributes to a healthier you, and that's especially crucial when you're already battling something else. So, keeping those gums in tip-top shape is a really important part of looking after yourself during treatment. It's a small investment that can make a big difference.

## \* Supporting proper jaw growth and development in younger children.

Okay, so you're braving the world of braces or Invisalign, right? Good for you! But listen, just slapping those things on and hoping for the best isn't going to cut it. Regular dental checkups during your orthodontic treatment aren't just some extra chore your dentist dreamed up; they're absolutely crucial for making sure everything goes smoothly and you actually end up with that killer smile you're after. Think of it like this: your teeth are shifting, and your appliance is the engine driving that shift. If the engine's not running right or the wheels aren't aligned properly, you're going to end up stuck or going in the wrong direction.

That's where "ensuring proper alignment progress and appliance maintenance" comes in. During these checkups, your orthodontist is keeping a close eye on whether your teeth are moving as predicted. Are they tracking correctly? Are there any unexpected hitches or roadblocks? If things are off, they can make adjustments to the wires, elastics, or aligners to get you back on course. Believe me, catching these issues early saves you time, money, and potential discomfort down the road.

And it's not just about how your teeth are moving. Your appliance itself needs some TLC. Your dentist or orthodontist will check for any broken brackets, loose wires, or damaged aligners. They'll also give you a refresher on proper cleaning techniques to prevent plaque buildup around your appliance, which can lead to cavities and gum disease. Honestly, neglecting the maintenance aspect is like skipping oil changes on your car – it might run for a while, but eventually, something's going to break down. So, stick to those regular checkups. Your future smile (and your wallet) will thank you.



### \* Avoiding the need for future, potentially more extensive, orthodontic intervention.

Okay, so you've finally shed those braces! Freedom! A perfect smile! But hold on a second. All that hard work you and your orthodontist put in can vanish faster than you think if you don't keep up the good habits. Regular dental checkups are absolutely crucial, even *after* orthodontic treatment, because they're your shield against things like cavities and gum disease that can undo all the progress you made.

Think about it: braces can leave tiny imperfections on your teeth, little nooks and crannies that are just perfect for bacteria to set up shop. And even though you're now free of brackets and wires, plaque can still build up, especially if you're not brushing and flossing like a pro. Regular checkups allow your dentist to spot these potential problems early on, before they become bigger, more expensive issues.

Your dentist can professionally clean your teeth, removing stubborn plaque and tartar that you might miss at home. They can also give you personalized advice on the best ways to brush and floss, targeting those hard-to-reach areas. Plus, they'll check for any signs of gum disease, which, left untreated, can damage the bone that supports your teeth.

Basically, regular dental checkups after orthodontic treatment are all about maintaining that investment you made in your smile. They're about making sure those pearly whites stay healthy and straight for years to come. It's like getting your car serviced after a long road trip – preventative maintenance to keep everything running smoothly. So, don't skip those appointments! Your future smile (and your wallet) will thank you.

# \* Contributing to overall oral health by preventing crowding and misalignment.

Okay, so you've got braces. Awesome! Straight teeth are in your future. But, let's be real, sometimes those wires and brackets can be a bit...uncomfortable. And let's not even get started on trying to floss around them. That's where those regular dental checkups come in, especially while you're undergoing orthodontic treatment. Think of them as your comfort zone checkpoints.

Your dentist and hygienist aren't just checking for cavities (though that's definitely part of it!). They're also your allies in navigating the sometimes-tricky world of braces. Feeling a poke from a wire? Maybe a bracket is rubbing your cheek raw? Don't suffer in silence! These appointments are the perfect time to bring up any discomfort you're experiencing. They can adjust wires, apply wax to irritating spots, and offer suggestions for pain relief.

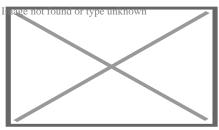
Beyond immediate discomfort, regular checkups also help address broader oral health concerns that can arise with braces. Food can get trapped more easily, increasing the risk of plaque buildup and gingivitis (inflamed gums). Your dental team can provide a super-thorough cleaning, reaching those hard-to-access areas around your brackets. They can also give you personalized tips and tricks for brushing and flossing effectively with braces, ensuring you maintain optimal oral hygiene throughout your treatment. Basically, they're keeping your mouth happy and healthy during this important process, so you can smile confidently both now and when those braces finally come off.

About health professional

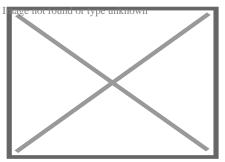
A health professional, healthcare professional, or healthcare worker (sometimes abbreviated HCW)[<sup>1</sup>] is a provider of health care treatment and advice based on formal training and experience. The field includes those who work as a nurse, physician (such as family physician, internist, obstetrician, psychiatrist, radiologist, surgeon etc.), physician assistant, registered dietitian, veterinarian, veterinary technician, optometrist, pharmacist, pharmacy technician, medical assistant, physical therapist, occupational therapist, dentist, midwife, psychologist, audiologist, or healthcare scientist, or who perform services in allied health professions. Experts in public health and community health are also health professionals.

#### **Fields**

[edit]



NY College of Health Professions massage therapy class

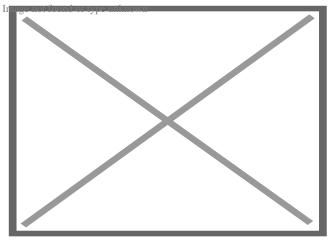


US Navy doctors deliver a healthy baby

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Health practitioners and professionals

- Athletic trainer
- Audiologist
- Chiropractor
- Clinical coder
- Clinical nurse specialist
- Clinical officer
- Community health worker
- Dentist
- Dietitian and nutritionist
- Emergency medical technician
- Feldsher
- Health administrator
- Medical assistant
- Medical laboratory scientist
- Medical transcriptionist
- Nurse anesthetist
- Nurse practitioner
- Nurse midwife
- $\circ \ \text{Nurse}$
- Occupational Therapist
- Optometrist
- Paramedic
- Pharmacist
- Pharmaconomist
- Pharmacy technician
- Phlebotomist
- Physician
- Physician assistant
- Podiatrist
- Psychologist
- Psychotherapist
- Physical therapist
- Radiographer
- Radiotherapist
- Respiratory therapist
- Speech-language pathologist
- Social Work
- Surgeon
- Surgeon's assistant
- Surgical technologist



70% of global health and social care workers are women, 30% of leaders in the global health sector are women

The healthcare workforce comprises a wide variety of professions and occupations who provide some type of healthcare service, including such direct care practitioners as physicians, nurse practitioners, physician assistants, nurses, respiratory therapists, dentists, pharmacists, speech-language pathologist, physical therapists, occupational therapists, physical and behavior therapists, as well as allied health professionals such as phlebotomists, medical laboratory scientists, dieticians, and social workers. They often work in hospitals, healthcare centers and other service delivery points, but also in academic training, research, and administration. Some provide care and treatment services for patients in private homes. Many countries have a large number of community health workers who work outside formal healthcare institutions. Managers of healthcare services, health information technicians, and other assistive personnel and support workers are also considered a vital part of health care teams.<sup>[2</sup>]

Healthcare practitioners are commonly grouped into health professions. Within each field of expertise, practitioners are often classified according to skill level and skill specialization. "Health professionals" are highly skilled workers, in professions that usually require extensive knowledge including university-level study leading to the award of a first degree or higher qualification.<sup>[3]</sup> This category includes physicians, physician assistants, registered nurses, veterinarians, veterinary technicians, veterinary assistants, dentists, midwives, radiographers, pharmacists, physiotherapists, optometrists, operating department practitioners and others. Allied health professionals, also referred to as "health associate professionals" in the International Standard Classification of Occupations, support implementation of health care, treatment and referral plans usually established by medical, nursing, respiratory care, and other health professionals, and usually require formal qualifications to practice their profession. In addition, unlicensed assistive personnel assist with providing health care services as permitted. *Citation needed* 

Another way to categorize healthcare practitioners is according to the sub-field in which they practice, such as mental health care, pregnancy and childbirth care, surgical care, rehabilitation care, or public health.<sup>[</sup>*citation needed*]

#### Mental health

#### [edit]

Main article: Mental health professional

A mental health professional is a health worker who offers services to improve the mental health of individuals or treat mental illness. These include psychiatrists, psychiatry physician assistants, clinical, counseling, and school psychologists, occupational therapists, clinical social workers, psychiatric-mental health nurse practitioners, marriage and family therapists, mental health counselors, as well as other health professionals and allied health professions. These health care providers often deal with the same illnesses, disorders, conditions, and issues; however, their scope of practice often differs. The most significant difference across categories of mental health practitioners is education and training.<sup>[4]</sup> There are many damaging effects to the health care workers. Many have had diverse negative psychological symptoms ranging from emotional trauma to very severe anxiety. Health care workers have not been treated right and because of that their mental, physical, and emotional health has been affected by it. The SAGE author's said that there were 94% of nurses that had experienced at least one PTSD after the traumatic experience. Others have experienced nightmares, flashbacks, and short and long term emotional reactions.<sup>[5</sup>] The abuse is causing detrimental effects on these health care workers. Violence is causing health care workers to have a negative attitude toward work tasks and patients, and because of that they are "feeling pressured to accept the order, dispense a product, or administer a medication".<sup>[6</sup>] Sometimes it can range from verbal to sexual to physical harassment, whether the abuser is a patient, patient's families, physician, supervisors, or nurses. *citation needed* 

#### **Obstetrics**

[edit]

Main articles: Obstetrics, Midwifery, and Birth attendant

A maternal and newborn health practitioner is a health care expert who deals with the care of women and their children before, during and after pregnancy and childbirth. Such health practitioners include obstetricians, physician assistants, midwives, obstetrical nurses and many others. One of the main differences between these professions is in the training and authority to provide surgical services and other life-saving interventions.<sup>[7]</sup> In some developing countries, traditional birth attendants, or traditional midwives, are the primary source of pregnancy and childbirth care for many women and families, although they are not certified or licensed. According to research, rates for unhappiness among obstetrician-gynecologists (Ob-Gyns) range somewhere between 40 and 75 percent.<sup>[8]</sup>

#### Geriatrics

[edit]

Main articles: Geriatrics and Geriatric care management

A geriatric care practitioner plans and coordinates the care of the elderly and/or disabled to promote their health, improve their quality of life, and maintain their independence for as long as possible.<sup>[9]</sup> They include geriatricians, occupational therapists, physician assistants, adult-gerontology nurse practitioners, clinical nurse specialists, geriatric clinical pharmacists, geriatric nurses, geriatric care managers, geriatric aides, nursing aides, caregivers and others who focus on the health and psychological care needs of older adults.<sup>[</sup>*citation needed*]

#### Surgery

[edit]

A surgical practitioner is a healthcare professional and expert who specializes in the planning and delivery of a patient's perioperative care, including during the anaesthetic, surgical and recovery stages. They may include general and specialist surgeons, physician assistants, assistant surgeons, surgical assistants, veterinary surgeons, veterinary technicians. anesthesiologists, anesthesiologist assistants, nurse anesthetists, surgical nurses, clinical officers, operating department practitioners, anaesthetic technicians, perioperative nurses, surgical technologists, and others. *Icitation needed* 

#### Rehabilitation

[edit]

A rehabilitation care practitioner is a health worker who provides care and treatment which aims to enhance and restore functional ability and quality of life to those with physical impairments or disabilities. These include physiatrists, physician assistants, rehabilitation nurses, clinical nurse specialists, nurse practitioners, physiotherapists, chiropractors, orthotists, prosthetists, occupational therapists, recreational therapists, audiologists, speech and language pathologists, respiratory therapists, rehabilitation counsellors, physical rehabilitation therapists, athletic trainers, physiotherapy technicians, orthotic technicians, prosthetic technicians, personal care assistants, and others.<sup>[10</sup>]

#### Optometry

[edit] Main article: Optometry

Optometry is a field traditionally associated with the correction of refractive errors using glasses or contact lenses, and treating eye diseases. Optometrists also provide general eye care, including screening exams for glaucoma and diabetic retinopathy and management of routine or eye conditions. Optometrists may also undergo further training in

order to specialize in various fields, including glaucoma, medical retina, low vision, or paediatrics. In some countries, such as the United Kingdom, United States, and Canada, Optometrists may also undergo further training in order to be able to perform some surgical procedures.

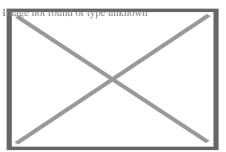
#### Diagnostics

[edit] Main article: Medical diagnosis

Medical diagnosis providers are health workers responsible for the process of determining which disease or condition explains a person's symptoms and signs. It is most often referred to as diagnosis with the medical context being implicit. This usually involves a team of healthcare providers in various diagnostic units. These include radiographers, radiologists, Sonographers, medical laboratory scientists, pathologists, and related professionals.<sup>[</sup>*citation needed*]

#### Dentistry

[edit]



Dental assistant on the right supporting a dental operator on the left, during a procedure.

Main article: Dentistry

A dental care practitioner is a health worker and expert who provides care and treatment to promote and restore oral health. These include dentists and dental surgeons, dental assistants, dental auxiliaries, dental hygienists, dental nurses, dental technicians, dental therapists or oral health therapists, and related professionals.

#### Podiatry

[edit]

Care and treatment for the foot, ankle, and lower leg may be delivered by podiatrists, chiropodists, pedorthists, foot health practitioners, podiatric medical assistants, podiatric

nurse and others.

#### **Public health**

[edit]

A public health practitioner focuses on improving health among individuals, families and communities through the prevention and treatment of diseases and injuries, surveillance of cases, and promotion of healthy behaviors. This category includes community and preventive medicine specialists, physician assistants, public health nurses, pharmacist, clinical nurse specialists, dietitians, environmental health officers (public health inspectors), paramedics, epidemiologists, public health dentists, and others.<sup>[</sup>*citation needed*]

#### **Alternative medicine**

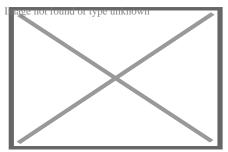
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In many societies, practitioners of alternative medicine have contact with a significant number of people, either as integrated within or remaining outside the formal health care system. These include practitioners in acupuncture, Ayurveda, herbalism, homeopathy, naturopathy, Reiki, Shamballa Reiki energy healing Archived 2021-01-25 at the Wayback Machine, Siddha medicine, traditional Chinese medicine, traditional Korean medicine, Unani, and Yoga. In some countries such as Canada, chiropractors and osteopaths (not to be confused with doctors of osteopathic medicine in the United States) are considered alternative medicine practitioners.

#### **Occupational hazards**

[edit]

See also: Occupational hazards in dentistry and Nursing § Occupational hazards



A healthcare professional wears an air sampling device to investigate exposure to airborne influenza

A video describing the Occupational Health and Safety Network, a tool for monitoring occupational hazards to health care workers

The healthcare workforce faces unique health and safety challenges and is recognized by the National Institute for Occupational Safety and Health (NIOSH) as a priority industry sector in the National Occupational Research Agenda (NORA) to identify and provide intervention strategies regarding occupational health and safety issues.[<sup>11</sup>]

#### **Biological hazards**

[edit]

Exposure to respiratory infectious diseases like tuberculosis (caused by *Mycobacterium tuberculosis*) and influenza can be reduced with the use of respirators; this exposure is a significant occupational hazard for health care professionals.<sup>[12]</sup> Healthcare workers are also at risk for diseases that are contracted through extended contact with a patient, including scabies.<sup>[13]</sup> Health professionals are also at risk for contracting blood-borne diseases like hepatitis B, hepatitis C, and HIV/AIDS through needlestick injuries or contact with bodily fluids.<sup>[14]</sup><sup>[15]</sup> This risk can be mitigated with vaccination when there is a vaccine available, like with hepatitis B.<sup>[15]</sup> In epidemic situations, such as the 2014-2016 West African Ebola virus epidemic or the 2003 SARS outbreak, healthcare workers are at even greater risk, and were disproportionately affected in both the Ebola and SARS outbreaks.<sup>[16]</sup>

In general, appropriate personal protective equipment (PPE) is the first-line mode of protection for healthcare workers from infectious diseases. For it to be effective against highly contagious diseases, personal protective equipment must be watertight and prevent the skin and mucous membranes from contacting infectious material. Different levels of personal protective equipment created to unique standards are used in situations where the risk of infection is different. Practices such as triple gloving and multiple respirators do not provide a higher level of protection and present a burden to the worker, who is additionally at increased risk of exposure when removing the PPE. Compliance with appropriate personal protective equipment rules may be difficult in certain situations, such as tropical environments or low-resource settings. A 2020 Cochrane systematic review found low-quality evidence that using more breathable fabric in PPE, double gloving, and active training reduce the risk of contamination but that more randomized controlled trials are needed for how best to train healthcare workers in proper PPE use.[<sup>16</sup>]

#### Tuberculosis screening, testing, and education

[edit]

Based on recommendations from The United States Center for Disease Control and Prevention (CDC) for TB screening and testing the following best practices should be followed when hiring and employing Health Care Personnel.<sup>[17]</sup>

When hiring Health Care Personnel, the applicant should complete the following:[<sup>18</sup>] a TB risk assessment,[<sup>19</sup>] a TB symptom evaluation for at least those listed on the Signs & Symptoms page,[<sup>20</sup>] a TB test in accordance with the guidelines for Testing for TB Infection,[<sup>21</sup>] and additional evaluation for TB disease as needed (e.g. chest x-ray for HCP with a positive TB test)[<sup>18</sup>] The CDC recommends either a blood test, also known as an interferon-gamma release assay (IGRA), or a skin test, also known as a Mantoux tuberculin skin test (TST).[<sup>21</sup>] A TB blood test for baseline testing does not require two-step testing. If the skin test method is used to test HCP upon hire, then two-step testing should be used. A one-step test is not recommended.[<sup>18</sup>]

The CDC has outlined further specifics on recommended testing for several scenarios.<sup>[22</sup>] In summary:

- 1. Previous documented positive skin test (TST) then a further TST is not recommended
- 2. Previous documented negative TST within 12 months before employment OR at least two documented negative TSTs ever then a single TST is recommended
- 3. All other scenarios, with the exception of programs using blood tests, the recommended testing is a two-step TST

According to these recommended testing guidelines any two negative TST results within 12 months of each other constitute a two-step TST.

For annual screening, testing, and education, the only recurring requirement for all HCP is to receive TB education annually.[<sup>18</sup>] While the CDC offers education materials, there is not a well defined requirement as to what constitutes a satisfactory annual education. Annual TB testing is no longer recommended unless there is a known exposure or ongoing transmission at a healthcare facility. Should an HCP be considered at increased occupational risk for TB annual screening may be considered. For HCP with a documented history of a positive TB test result do not need to be re-tested but should instead complete a TB symptom evaluation. It is assumed that any HCP who has undergone a chest x-ray test has had a previous positive test result. When considering mental health you may see your doctor to be evaluated at your digression. It is recommended to see someone at least once a year in order to make sure that there has not been any sudden changes.[<sup>23</sup>]

#### **Psychosocial hazards**

#### [edit]

Occupational stress and occupational burnout are highly prevalent among health professionals.[<sup>24</sup>] Some studies suggest that workplace stress is pervasive in the health care industry because of inadequate staffing levels, long work hours, exposure to infectious diseases and hazardous substances leading to illness or death, and in some countries threat of malpractice litigation. Other stressors include the emotional labor of caring for ill people and high patient loads. The consequences of this stress can include substance abuse, suicide, major depressive disorder, and anxiety, all of which occur at higher rates in

health professionals than the general working population. Elevated levels of stress are also linked to high rates of burnout, absenteeism and diagnostic errors, and reduced rates of patient satisfaction.[<sup>25</sup>] In Canada, a national report (*Canada's Health Care Providers*) also indicated higher rates of absenteeism due to illness or disability among health care workers compared to the rest of the working population, although those working in health care reported similar levels of good health and fewer reports of being injured at work.[<sup>26</sup>]

There is some evidence that cognitive-behavioral therapy, relaxation training and therapy (including meditation and massage), and modifying schedules can reduce stress and burnout among multiple sectors of health care providers. Research is ongoing in this area, especially with regards to physicians, whose occupational stress and burnout is less researched compared to other health professions.[<sup>27</sup>]

Healthcare workers are at higher risk of on-the-job injury due to violence. Drunk, confused, and hostile patients and visitors are a continual threat to providers attempting to treat patients. Frequently, assault and violence in a healthcare setting goes unreported and is wrongly assumed to be part of the job.[<sup>28</sup>] Violent incidents typically occur during one-on-one care; being alone with patients increases healthcare workers' risk of assault.[<sup>29</sup>] In the United States, healthcare workers experience 2?3 of nonfatal workplace violence incidents.[<sup>28</sup>] Psychiatric units represent the highest proportion of violent incidents, at 40%; they are followed by geriatric units (20%) and the emergency department (10%). Workplace violence can also cause psychological trauma.[<sup>29</sup>]

Health care professionals are also likely to experience sleep deprivation due to their jobs. Many health care professionals are on a shift work schedule, and therefore experience misalignment of their work schedule and their circadian rhythm. In 2007, 32% of healthcare workers were found to get fewer than 6 hours of sleep a night. Sleep deprivation also predisposes healthcare professionals to make mistakes that may potentially endanger a patient.<sup>30</sup>]

#### **COVID** pandemic

[edit]

Especially in times like the present (2020), the hazards of health professional stem into the mental health. Research from the last few months highlights that COVID-19 has contributed greatly to the degradation of mental health in healthcare providers. This includes, but is not limited to, anxiety, depression/burnout, and insomnia.<sup>[</sup>*citation needed*]

A study done by Di Mattei et al. (2020) revealed that 12.63% of COVID nurses and 16.28% of other COVID healthcare workers reported extremely severe anxiety symptoms at the peak of the pandemic.[<sup>31</sup>] In addition, another study was conducted on 1,448 full time employees in Japan. The participants were surveyed at baseline in March 2020 and then again in May 2020. The result of the study showed that psychological distress and anxiety had increased more among healthcare workers during the COVID-19 outbreak.[<sup>32</sup>]

Similarly, studies have also shown that following the pandemic, at least one in five healthcare professionals report symptoms of anxiety.[<sup>33</sup>] Specifically, the aspect of "anxiety was assessed in 12 studies, with a pooled prevalence of 23.2%" following COVID.[<sup>33</sup>] When considering all 1,448 participants that percentage makes up about 335 people.

#### Abuse by patients

[edit]

- The patients are selecting victims who are more vulnerable. For example, Cho said that these would be the nurses that are lacking experience or trying to get used to their new roles at work.[<sup>34</sup>]
- Others authors that agree with this are Vento, Cainelli, & Vallone and they said that, the reason patients have caused danger to health care workers is because of insufficient communication between them, long waiting lines, and overcrowding in waiting areas.<sup>35</sup> When patients are intrusive and/or violent toward the faculty, this makes the staff question what they should do about taking care of a patient.
- There have been many incidents from patients that have really caused some health care workers to be traumatized and have so much self doubt. Goldblatt and other authors said that there was a lady who was giving birth, her husband said, "Who is in charge around here"? "Who are these sluts you employ here".<sup>[5</sup>] This was very avoidable to have been said to the people who are taking care of your wife and child.

#### Physical and chemical hazards

[edit]

Slips, trips, and falls are the second-most common cause of worker's compensation claims in the US and cause 21% of work absences due to injury. These injuries most commonly result in strains and sprains; women, those older than 45, and those who have been working less than a year in a healthcare setting are at the highest risk.[<sup>36</sup>]

An epidemiological study published in 2018 examined the hearing status of noise-exposed health care and social assistance (HSA) workers sector to estimate and compare the prevalence of hearing loss by subsector within the sector. Most of the HSA subsector prevalence estimates ranged from 14% to 18%, but the Medical and Diagnostic Laboratories subsector had 31% prevalence and the Offices of All Other Miscellaneous Health Practitioners had a 24% prevalence. The Child Day Care Services subsector also had a 52% higher risk than the reference industry.[<sup>37</sup>]

Exposure to hazardous drugs, including those for chemotherapy, is another potential occupational risk. These drugs can cause cancer and other health conditions.[<sup>38</sup>]

#### **Gender factors**

#### [edit]

Female health care workers may face specific types of workplace-related health conditions and stress. According to the World Health Organization, women predominate in the formal health workforce in many countries and are prone to musculoskeletal injury (caused by physically demanding job tasks such as lifting and moving patients) and burnout. Female health workers are exposed to hazardous drugs and chemicals in the workplace which may cause adverse reproductive outcomes such as spontaneous abortion and congenital malformations. In some contexts, female health workers are also subject to gender-based violence from coworkers and patients.<sup>[39</sup>][<sup>40</sup>]

#### Workforce shortages

[edit]

See also: Health workforce, Doctor shortage, and Nursing shortage

Many jurisdictions report shortfalls in the number of trained health human resources to meet population health needs and/or service delivery targets, especially in medically underserved areas. For example, in the United States, the 2010 federal budget invested \$330 million to increase the number of physicians, physician assistants, nurse practitioners, nurses, and dentists practicing in areas of the country experiencing shortages of trained health professionals. The Budget expands loan repayment programs for physicians, nurses, and dentists who agree to practice in medically underserved areas. This funding will enhance the capacity of nursing schools to increase the number of nurses. It will also allow states to increase access to oral health care through dental workforce development grants. The Budget's new resources will sustain the expansion of the health care workforce funded in the Recovery Act.[<sup>41</sup>] There were 15.7 million health care professionals in the US as of 2011.[<sup>36</sup>]

In Canada, the 2011 federal budget announced a Canada Student Loan forgiveness program to encourage and support new family physicians, physician assistants, nurse practitioners and nurses to practice in underserved rural or remote communities of the country, including communities that provide health services to First Nations and Inuit populations.<sup>[42</sup>]

In Uganda, the Ministry of Health reports that as many as 50% of staffing positions for health workers in rural and underserved areas remain vacant. As of early 2011, the Ministry was conducting research and costing analyses to determine the most appropriate attraction and retention packages for medical officers, nursing officers, pharmacists, and laboratory technicians in the country's rural areas.[<sup>43</sup>]

At the international level, the World Health Organization estimates a shortage of almost 4.3 million doctors, midwives, nurses, and support workers worldwide to meet target coverage levels of essential primary health care interventions.[<sup>44</sup>] The shortage is reported most

severe in 57 of the poorest countries, especially in sub-Saharan Africa.

Nurses are the most common type of medical field worker to face shortages around the world. There are numerous reasons that the nursing shortage occurs globally. Some include: inadequate pay, a large percentage of working nurses are over the age of 45 and are nearing retirement age, burnout, and lack of recognition.[<sup>45</sup>]

Incentive programs have been put in place to aid in the deficit of pharmacists and pharmacy students. The reason for the shortage of pharmacy students is unknown but one can infer that it is due to the level of difficulty in the program.<sup>46</sup>]

Results of nursing staff shortages can cause unsafe staffing levels that lead to poor patient care. Five or more incidents that occur per day in a hospital setting as a result of nurses who do not receive adequate rest or meal breaks is a common issue.<sup>47</sup>]

#### **Regulation and registration**

[edit] Main article: Health professional requisites

Practicing without a license that is valid and current is typically illegal. In most jurisdictions, the provision of health care services is regulated by the government. Individuals found to be providing medical, nursing or other professional services without the appropriate certification or license may face sanctions and criminal charges leading to a prison term. The number of professions subject to regulation, requisites for individuals to receive professional licensure, and nature of sanctions that can be imposed for failure to comply vary across jurisdictions.

In the United States, under Michigan state laws, an individual is guilty of a felony if identified as practicing in the health profession without a valid personal license or registration. Health professionals can also be imprisoned if found guilty of practicing beyond the limits allowed by their licenses and registration. The state laws define the scope of practice for medicine, nursing, and a number of allied health professions.[<sup>48</sup>]<sup>[</sup>*unreliable source?*<sup>]</sup> In Florida, practicing medicine without the appropriate license is a crime classified as a third degree felony,[<sup>49</sup>] which may give imprisonment up to five years. Practicing a health care profession without a license which results in serious bodily injury classifies as a second degree felony,[<sup>49</sup>] providing up to 15 years' imprisonment.

In the United Kingdom, healthcare professionals are regulated by the state; the UK Health and Care Professions Council (HCPC) protects the 'title' of each profession it regulates. For example, it is illegal for someone to call himself an Occupational Therapist or Radiographer if they are not on the register held by the HCPC.

#### See also

[edit]

- List of healthcare occupations
- Community health center
- Chronic care management
- Electronic superbill
- Geriatric care management
- Health human resources
- Uniform Emergency Volunteer Health Practitioners Act

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