



Monaldi Archives for Chest Disease

elSSN 2532-5264

https://www.monaldi-archives.org/

Publisher's Disclaimer. E-publishing ahead of print is increasingly important for the rapid dissemination of science. The *Early Access* service lets users access peer-reviewed articles well before print / regular issue publication, significantly reducing the time it takes for critical findings to reach the research community.

These articles are searchable and citable by their DOI (Digital Object Identifier).

The **Monaldi Archives for Chest Disease** is, therefore, e-publishing PDF files of an early version of manuscripts that have undergone a regular peer review and have been accepted for publication, but have not been through the typesetting, pagination and proofreading processes, which may lead to differences between this version and the final one.

The final version of the manuscript will then appear in a regular issue of the journal.

E-publishing of this PDF file has been approved by the authors.

All legal disclaimers applicable to the journal apply to this production process as well.

Monaldi Arch Chest Dis 2024 [Online ahead of print]

To cite this Article:

Gnerre P, Para O, Di Massimo DS, et al. **Prevalence, risk factors and clinical impact of burnout in internal medicine units: a call to action.** *Monaldi Arch Chest Dis* doi: 10.4081/monaldi.2024.3069

CThe Author(s), 2024 Licensee PAGEPress, Italy

Note: The publisher is not responsible for the content or functionality of any supporting information supplied by the authors. Any queries should be directed to the corresponding author for the article.

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article or claim that may be made by its manufacturer is not guaranteed or endorsed by the publisher.



Prevalence, risk factors and clinical impact of burnout in internal medicine units: a call to action

Paola Gnerre,¹ Ombretta Para,² Dino Stefano Di Massimo,³ Tiziana Marcella Attardo,⁴ Dario Manfellotto,⁵ Francesco Dentali⁶

¹Internal Medicine Department, ASL 2 Savonese, Savona; ²Internal Medicine Department, AOU Careggi, Florence; ³Health Professions' Direction "Degli Infermi" Hospital, Ponderano; ⁴Internal Medicine Department, Luini Confalonieri Hospital, Luino; ⁵Department of Emergency and Internal Medicine, Isola Tiberina Hospital, Gemelli Isola, Rome; ⁶Internal Medicine Department, Insubria, Varese, Italy

Correspondence: Ombretta Para, M.D, Internal Medicine, AOU Careggi, Largo Brambilla 3, 50134 Florence, Italy. Tel.:+39-055-7946411. E-mail: parao@aou-careggi.toscana.it

Contributions: all the authors contributed to data interpretation. All the authors participated in the conception and revision of the article, drafted the article, and approved the final version to be published.

Conflict of interest: all the authors have no potential intellectual or economic conflict of interest to declare.

Ethics approval and consent to participate: not applicable.

Informed consent: not applicable.

Funding: none.

Availability of data and materials: data are available from the corresponding author upon request.

Abstract

Health workers, and in particular doctors and nurses working in internal medicine units (IMU), are at high risk of burnout. Overcrowding, complexity and severity of clinical cases, patients' social and family issues, impact of death, and "workload" are all aspects that are specific risk factors that might lead to the development of burnout in this scenario.

People suffering from burnout may face several psychological problems (including extreme physical and mental fatigue, emotional exhaustion, loss of enthusiasm concerning work, feelings of cynicism, and a low sense of personal accomplishment) and are also at risk of developing some somatic diseases. Furthermore, the quality of care delivered by a worker in burnout seems to worsen and slip down.

In this review, we analyzed the main risk factors and consequences of burnout in IMUs, and we propose individual and organizational measures that may be applied to be able to prevent burnout in this setting.

Key words: burnout, internal medicine, stress-related disease.

Introduction

Work environment and working conditions expose the individual to numerous stress factors [1]. Stress related diseases are defined as burnout [1].

The term 'burnout' was first used in a clinical sense in the early 1970s by Herbert Freudenberger to describe the consequences of severe stress and high ideals experienced by healthcare workers [2-4].

Burnout should not be considered as a medical condition but as a state of physical or emotional exhaustion that is turning into one of the most important psychosocial and occupational hazards.

People suffering from burnout show extreme physical and mental fatigue, emotional exhaustion, loss of enthusiasm for work, feelings of cynicism, and a low sense of personal accomplishment [1,2].

In addition, health workers are also at risk of developing somatic diseases. In fact, high rates of overtiredness is significantly associated with type 2 diabetes and with cardiovascular, skin, chronic lung, and gastrointestinal diseases [5].

`Stressed out` laborers are less satisfied with their job and they would be more willing to change their profession with a reduction in the productivity and care efficiency and an increase in medical errors. Of note, the quality of care delivered by a worker with burnout seems to decrease [6,7].

A systematic review found a relationship between high levels of burnout and worsening patient safety suggesting the possibility to consider the occurrence of burnout as a measurable indicator of the quality and patients' safety of a health facility [8].

Risk factors of burnout

Several elements at individual and organizational level can contribute to the onset of burnout in the workplace in people who work in healthcare field [2].

Lack of social support and meaning at work, work-life balance, experience dealing with trauma, are some of the individual factors which can cause burnout [2]. Sleep disorders are also critically linked to burnout especially for health professional with chaotic working hours and putting up with night shifts. Chen et al. [3] conducted a survey in a large health cluster in Singapore including a large number (N=4777) of different health professionals showing strong evidence between sleep quality and development of burnout.

Organizational factors include lack of clarity in one's function at work, excessive working hours, workload, an ongoing imbalance between one's role and the resources available, lack of job awareness, and effectively designed work systems [2,7].

The modern medical workplace is a complex environment that more than others favor the spread of burnout. The responsibility to make critical decisions with potential serious consequences, the social culture of guilt and the pressure to avoid errors, the increased workload and the excessive bureaucracy are among different facets of job conditions that have rendered medical practice inherently stressful and at high risk of growing burnout [4].

For instance, in a study led by Linzer et al. [6] more than half of physicians (53.1%) reported stressful hours during office visits and 48.1% felt their workplace was chaotic and 26.5% of responders reported feeling burnout.

In this study, tight schedule, chaotic environment, poor organization, and low resources were strongly associated with low physician job satisfaction and the spreading of burnout.

Lastly, in recent years, there has been a growing concern regarding clinician burnout attributed directly or indirectly to the widespread use of health IT systems, such as electronic health records (EHRs) and computerized order entry.

Findings suggest that the risk of burnout for full-time clinicians may increase significantly if they spend more than 60 to 90 minutes per day on the EHR after hours [8].

Thus, for all these reasons, health workers have a higher risk of both burnout and lowered work-life balance if compared to the general population [4].

The syndrome of burnout in internal medicine workers

In 2022 a survey conducted by Medscape in more than 9,100 physicians evaluated the prevalence of burnout and depression in 29 physician Specialties [9]. Emergency medicine specialists had the highest rate (65%) of these complications followed by internal medicine (60%), pediatricians (59%), obstetrics and gynecologists and infectious disease (58%), family medicine (57%), neurology, critical care and anesthesiology (55%), pulmonary medicine and radiology (54%), oncology (52%), gastroenterology (52%), general surgery and diabetes and endocrinology (51%) and finally rheumatology (50%) [9].

In the context of internal medicine, stress originates from frequent intense interactions with complex patients, defined as patients who are older and frail, with complex care needs or with numerous comorbidities, mental health issues, medication-related problems, and social vulnerability [10].

In addition to this, most of the patients admitted in internal medicine come from emergency rooms with high variability of the case-mix [10].

The other relevant problem of internal medicine is the overcrowdidness. During the last few years, the progressive cutting on beds in hospital, at least in Italy, together with the increased complexity of patients, has determined an increase of the beds in hospitals utilization leading

to the phenomenon of patients hospitalized outside the appropriate ward (outliers). This is particularly evident in the context of Internal Medicine [11].

If we also consider the social culture of blame and the excessive bureaucracy, the higher risk of developing burnout in Internal Medicine appears clear.

Several studies have investigated the burnout among internists. A survey conducted between 2011 and 2014 by Mayo Clinic showed that from 45.5% to 54.4% of Internal Medicine residents reported at least one of the symptoms of burnout [12].

Moreover, it has been showed that in several different countries more than half of the residents in a non-surgical setting suffer from burnout syndrome [13].

In particular, the COVID-19 outbreak has led to a massive over-exertion of doctors, multiplying their work intensity, overload and stress, and as a matter of fact several studies have revealed an increased level of burnout in health care professionals in that period [14]. Furthermore, a wide percentage of healthcare professionals reported high scores of emotional exhaustions and high levels of depersonalization [14].

A survey performed in Spanish Hospitals documented that, during the COVID-19 outbreak, 40.1% of Internal Medicine physicians presented burnout syndrome. Stress due to assistance of patients with SARS-CoV-2, overworking without compensation, and the fear of being contagious to their loved ones were among the most frequent causes of this disease [15].

Unfortunately, although several studies have clearly showed that the majority of patients hospitalized COVID-19 were treated in IMUs [16] there are no published data on the consequences of COVID-19 outbreak on health employees working in Internal Medicine.

Burnout in the nursing staff

Nurses represent the largest group of health-care professionals in the modern health care system. Their professional nature, which is based on providing technical but also emotional care, might be predisposed to the symptoms of burnout [17]. The study of Woo et al. [18] reports that 11.2% of nurses worldwide refer burnout symptoms. However, the literature reports significant different prevalence of burnout in different Units with the highest prevalence registered among Intensive and Critical Care nursing staffs [19].

Among these, burnout has direct consequences on psycho-physical well-being, on the quality of care, on the safety of the care provided and on professional behavior with an increase in absenteeism and in the intention to leave their job [19-21]. In particular, this is strongly correlated with burnout symptoms, and, as reported by the Italian RN4Cast study, 36% of nurses had the idea of quitting their profession within the subsequent 12 months [22].

Sasso et al. identified some factors that influence the intention to leave and the intention to stay: the main factors that influence the intention to leave are the burnout symptoms such as exhaustion and depersonalization, followed by the understaffing, and the difficulty to be adherent with nursing activities when there is need to perform non-nursing care. On the other side, the factor that mainly influences the intention to stay is the perception of the elevated quality and safety of care provided [23].

There are many strategies to contain burnout and the intention to leave in nursing staff, one of them is improving nurse resilience [23], that is defined as *"the skill that nurses learn and possess to survive and thrive in the face of adversities at work "*and a key role is played by the nurse leader [22].

As suggested by Wei et al. [24], there are seven strategies for nurse leaders to cultivate nurse resilience: improve social connection through nurses to help them in interpersonal relationships; helping nurses to see events from a positive perspective; to recognize nurses' skills and help them to implement those at work; to use the mentoring method to support nurses in their professional growth; to encourage nurses' self-care; to promote mindfulness practice, and finally to use empathy between nurse leaders and nurses.

Strategies to prevent and to treat burnout in internal medicine units

Reducing burnout in the workplace knowing what the contributing factors are and how to prevent them is crucial for the sake of retention and overall workers well-being [1].

There should be a "*burnout culture*" that encourages healthcare organizations to investigate signs and symptoms of burnout among its employees [25]. The primary prevention is aimed to early recognition of signs and symptoms of burnout. Maslach and Jackson's conceptualization of burnout remains the most widely tool accepted for assessing its presence and severity [26]. Once the burnout syndrome has been identified, it is possible to work in a variety of different ways, such as interventions on health-workers (individual interventions) and strategies changing the workplace or organization of work (organizational interventions) [26].

On an individual level, interventions may promote a healthy lifestyle and self-care, such as eating, sleeping, exercising, following a routine, avoiding excess social media, keeping in touch with family and friends. People with high levels of self-compassion have greater emotional stability and lower levels of anxiety during stressful times having a lower risk of burnout [27].

Other good habits are to implement regular exercise and to learn the use of techniques with a progressive muscle relaxation or meditation. In particular, yoga and meditation appear effective tools to improve empathy and work-related problems in healthcare workers [28,29].

Finally, adequate exposure to sunlight, regular exercise, limiting daytime naps to 30 min, avoidance of stimulants such as caffeine, nicotine and alcohol close to bedtime, and limited exposure to smartphones and computer screens at bedtime can be suggested to improve sleep quality of workers [30].

Organization-directed interventions should improve the working environment, reduce the intensity of workload and optimize the comfort of shift schedule.

An effective teamwork is now globally recognized as an essential tool for constructing a more effective and patient-centered health care delivery system. A well-functioning team can decrease stress and tension in the workplace [31].

Interventions increasing autonomy and sense of control over one's working life, fulfilling the need to work in a team and to experience effectiveness in one's work, caring for others and feeling appreciated and supported can be a strategies to ameliorate the workplace and then the emotional state of workers [32].

The intervention of CREW (Civility, Respect and Commitment at Work) of the Veterans Health Administration of the United States is a method developed to improve the social climate of working groups that might reduce work burnout too [33].

Leiter et al. [34] subsequently analyzed a more targeted intervention in the workplace named CARAWay (Civility and Respect at Work).

These methods are based on tackling a work problem through individual training and the increase of positive social behaviors. Social education through active conversation with peers leads to an improvement in emotional intelligence, in the sense of belonging to the group, reinforcing teamwork [34].

Guidelines from NICE recommend the creation of a supportive and inclusive working environment to improve mental wellbeing in the workplace [35].

Cognitive behavioural therapy services and the opportunity to explore mindfulness should be offered to those who need these techniques.

Literature shows that the greatest physicians' satisfaction is associated with the relationship and the relevant time spent together with patients [36,37].

A possible solution is to implement practice of teambuilding and to entrust the bureaucratic activities to other employees and the hospital departments should guarantee the presence of administrative staff supporting the clinicians as far as bureaucracy at work is concerned, allowing clinicians to focus on their activities on patients' care [38]. An interview study showed that the use of medical scribes could contributes to the reduction of clinician burnout through their interactions with clinicians, patients, and computerized systems [26].

Workers involved in rotating shift work are subjected to a continuous stress and this is particularly true for doctors and nurses working in IMUs. Thus, suggested actions could consider eliminating rotating shifts that disrupt sleep patterns, replacing them with regular night shifts, scheduling shifts to begin before midnight and last no longer than 11 hours, to help workers stabilize circadian rhythms, scheduling regular breaks earlier in shifts and establishing health programs that promote healthy behaviour [39].

Furthermore, strategies to increase light exposure before and throughout shifts and avoidance of blue light exposure from electronic devices from two to three hours before bedtime have clearly demonstrated to boost sleep quality [40].

Current situation in working conditions that include too many working hours have made it increasingly difficult for both women and men to balance their work and family responsibilities in a satisfactory manner [41]. Thus, hospitals should also be equipped with school facilities to help workers with children. Social interaction should be made easier and social support should be increased.

Previously, designing clinical spaces for well-being has been focused primarily on the patient. Now, caring for the workers who serve them is crucial to create and maintaining a highperforming hospital system. There should be relaxation areas for healthcare workers where they can take a break, be quiet, read and relax in all hospitals [41].

Table 1 shows a call to action for the burnout in Internal Medicine Units.

Conclusions

Burnout is an under-recognized and under-reported disorder among health workers, and this condition may be common in IMUs. In this setting, Doctors and nurses often must work in stressful conditions, performing high-risk procedures and coping with incessant workload.

Several studies and meta-analysis clearly demonstrated that burnout has a negative impact not only on the work and personal lives of workers but also on the care of patients.

It is estimated that annually, in the USA, clinician burnout costs US \$5000-\$10 000 per worker due to a lack in productivity and staff turn-over.

In a meta-analysis on 82 studies including 210,669 healthcare providers Salyers et al. found a statistically significant negative relationship between burnout and quality (r = -0.26, 95 % CI [-0.29, -0.23]) and safety (r = -0.23, 95 % CI [-0.28, -0.17]) of healthcare [42].

Therefore, it appears critical to periodically evaluate the presence of signs and symptoms of burnout in healthcare workers, implementing every measure to deal with stressful situations. Strategies to improve organizational workflow and interventions for the improvement and strengthening of health services should be implemented. This manuscript would increase consciousness about an important problem as burnout among professionals of Health world and politicians' level.

Epidemiological and health-economic studies on the prevalence, incidence and cost of burnout, in IMUs, are lacking. Consequently, perspective high-quality studies assessing these issues are needed.

References

- 1. Webwer A, Reinhard JA. Burn-out syndrome: a disease of modern society? Occup Med 2000;50:512-7.
- 2. Gundersen L. Physician burnout. Ann Int Med 2001;135:145-8.
- 3. Chen Z, Foo ZST, Tang JY, et al. Sleep quality and burnout: a Singapore study. Sleep Med 2023;102:205-12.
- 4. Freudenberger H, Richelson G. Burnout: the high cost of high achievement. New York, NY, USA: Bantam Books; 1980.
- 5. Von Känel R, Princip M, Holzgang SA, et al. Relationship between job burnout and somatic diseases: a network analysis. Sci Rep 2020;10:18438.
- 6. Linzer M, Manwell LB, Williams ES, et al. Working conditions in primary care: physician reactions and care quality. Ann Intern Med 2009;151:28-36.
- Robinson KE, Kersey JA. Novel electronic health record (EHR) education intervention in large healthcare organization improves quality, efficiency, time, and impact on burnout. Medicine 2018;97:e12319.
- 8. de Lima Garcia C, de Abreu LC, Souza Ramos JL, et al. Influence of burnout on patient safety: systematic review and meta-analysis. Medicina 2019;55:553.
- 9. Medscape. Medscape physician burnout & depression report 2023
- 10. Verma AA, Guo Y, Kwan JL, et al. Patient characteristics, resource use and outcomes associated with general internal medicine hospital care: the General Medicine Inpatient Initiative (GEMINI) retrospective cohort study. CMAJ Open 2017;5:E842-9.
- 11.La Regina M, Guarneri F, Romano E, et al. What quality and safety of care for patients admitted to clinically inappropriate wards: a systematic review. J Gen Intern Med 2019;34:1314-21.
- 12.Shanafelt T, Hasan O, Dyrbye L.N. Changes in burnout and satisfaction with work-life balance in physicians and the general US working population between 2011 and 2014. Mayo Clin Proc 2015;90:1600-13.
- 13.Low ZX, Yeo KA, Sharma VK, et al. Prevalence of burnout in medical and surgical residents: a meta-analysis. Int J Environ Res Public Health 2019;16:1479.
- 14. Kok N, van Gurp J, Teerenstra S, et al. Coronavirus disease 2019 immediately increases burnout symptoms in ICU professionals: a longitudinal cohort study. Crit Care Med 2021;49:419-27.
- 15. Macía-Rodríguez C, de Oña AA, Martín-Iglesias D, et al. A. Burn-out syndrome in Spanish internists during the COVID-19 outbreak and associated factors: a cross-sectional survey. BMJ Open 2021;11:e042966.

- 16. Montagnani A, Pieralli F, Gnerre P, et al. COVID-19 pandemic and internal medicine units in Italy: a precious effort on the front line. Intern Emerg Med 2020;15:1595-7.
- 17.WHO. State of the world's nursing 2020: investing in education, jobs and leadership. 2020. Available from: <u>https://iris.who.int/bitstream/handle/10665/331677/9789240003279-</u> <u>eng.pdf?sequence=1</u>.
- 18. Woo T, Ho R, Tang A, Tam W. Global prevalence of burnout symptoms among nurses: a systematic review and meta-analysis. J Psychiatr Res 2020;123:9-20.
- 19. Sahraian A, Fazelzadeh A, Mehdizadeh AR, Toobaee SH. Burnout in hospital nurses: a comparison of internal, surgery, psychiatry and burns wards. Int Nurs Rev 2008;55:62-7.
- 20.Kelly LA, Lefton C, Fischer SA. Nurse leader burnout, satisfaction, and work-life balance. J Nurs Adm 2019;49:404-10.
- 21. Magtibay DL, Chesak SS, Coughlin K, Sood A. Decreasing stress and burnout in nurses: efficacy of blended learning with stress management and resilience training program. J Nurs Adm 2017;47:391-5.
- 22.Sasso L, Bagnasco A, Zanini M, et al. The general results of the RN4CAST survey in Italy. J Adv Nurs 2017;73:2028-30.
- 23. Sasso L, Bagnasco A, Catania G, et al. Push and pull factors of nurses' intention to leave. J Nurs Manag 2019;27:946-54.
- 24.Wei H, Roberts P, Strickler J, et al. Nurse leaders' strategies to foster nurse resilience. J Nurs Manag 2019;27:681-7.
- 25. De Simone S, Vargas M, Servillo G. Organizational strategies to reduce physician burnout: a systematic review and meta-analysis. Aging Clin Exp Res 2021;33:883-94.
- 26. Maslach C, Jackson SE, Leiter MP. Maslach burnout inventory. In: Zalaquett CP, Wood RJ, eds. Evaluating stress: a book of resources. Lanham, MD, USA: Scarecrow Education; 1997. pp. 191-218.
- 27. Raes F. Rumination and worry as mediators of the relationship between self-compassion and depression and anxiety. Pers Individ Dif 2010;22:757-61.
- 28. Mathad MD, Pradhan B, Sasidharan RK. Effect of yoga on psychological functioning of nursing students: a randomized wait list control trial. J Clin Diagn Res 2017;11:KC01-5.
- 29. Axén I, Follin G. Medical yoga in the workplace setting-perceived stress and work ability -a feasibility study. Complement Ther Med 2017;30:61-6.
- 30. Brubaker JR, Swan A, Beverly EA. A brief intervention to reduce burnout and improve sleep quality in medical students. BMC Med Educ 2020;20:345.

- 31. Maslach C, Leiter MP. New insights into burnout and health care: strategies for improving civility and alleviating burnout. Med Teach 2017;39:160-3.
- 32. Panagioti M, Panagopoulou E, Bower P, et al. Controlled interventions to reduce burnout in physicians: a systematic review and meta-analysis. JAMA Intern Med 2017;177:195-205.
- 33. Osatuke K, Mohr D, Ward C, et al. Civility, respect, engagement in the workforce (CREW): nationwide organization development intervention at veterans health administration. J Appl Behav Sci 2009;45:384-410.
- 34. Leiter MP, Laschinger HKS, Day A, Gilin-Oore D. The impact of civility interventions on employee social behavior, distress, and attitudes. J Appl Psychol 2011;96:1258-74.
- 35.NICE. Workplace health: management practices. 2015. Available from: <u>https://www.nice.org.uk/guidance/ng13</u>.
- 36.Wood D. Average Time Doctors Spend With Patients. 2023. Available from: <u>https://www.staffcare.com/locum-tenens-blog/advice/which-physicians-spend-most-time-with-patients/</u>.
- 37. Collier R. Rethinking EHR interfaces to reduce click fatigue and physician burnout. CMAJ 2018;190:E994-5.
- 38. Tran BD, Rosenbaum K, Zheng K. An interview study with medical scribes on how their work may alleviate clinician burnout through delegated health IT tasks. J Am Med Inform Assoc 2021;28:907-14.
- 39. Irish LA, Kline CE, Gunn HE, et al. The role of sleep hygiene in promoting public health: A review of empirical evidence. Sleep Med Rev 2015;22:23-36.
- 40. Poon EG, Trent Rosenbloom S, Zheng K. Health information technology and clinician burnout: Current understanding, emerging solutions, and future directions. J Am Med Inform Assoc 2021;28:895-8.
- 41. Ferri P, Guadi M, Marcheselli L, et al. The impact of shift work on the psychological and physical health of nurses in a general hospital: a comparison between rotating night shifts and day shifts. Risk Manag Healthc Policy 2016;14:203-11.
- 42. Salyers MP, Bonfils KA, Luther L, et al. The relationship between professional burnout and quality and safety in healthcare: a meta-analysis. J Gen Intern Med 2017;32:475-82.

	Table 1. Burnout i	n internal	medicine	units: a	call to action.
--	--------------------	------------	----------	----------	-----------------

Tubic	T. Durnout in internal medicine units: a can to action.
1	Assess regularly (2 times a year) the presence of signs and simptoms of burnout in healthcare workers with a rapide questionnaire (e.g. Maslach questionnaire).
2	Respect a sufficient quantity of hours off work between two work shifts (≥ 11 hours).
3	Respect monthly working hours avoiding excessive additional hours.
4	Apply a progressive clockwise rotations (morning/after- noon/night) instead of rapid sequential rotation.
5	Increase co-management with other specialties to avoid congestion and overcrowding in internal medicine units.
6	Improve the health workforce in internal medicine changing current Italian legislation which considers internal medicine as a "low complexity" specialty.
7	Provide opportunities for rest and relaxation during the workday (e.g. regular breaks, shorter working hours, regular team meetings, relaxation/recreation areas in workplaces).
8	Implement practices of teambuilding.
9	Improve the architecture and design of internal medicine units (minimize noise include sliding doors, distributing work zones for clinical staff across the floor rather than in a single location, and elevators and visitor waiting areas located away from patient rooms).
10	Encourage periodic staff training