Curiously, this development occurred in Denmark while other countries with occupational health services kept medical doctors as their main core staff (as often provided by legislation on occupational health service, e.g. in the other Nordic countries). In other countries, practicing occupational physicians make a living by being available to enterprises, with which they have a consulting agreement (e.g. USA and Canada).

Although the medical community has an important role to play in this context, the transition in Denmark has in fact reduced the medical practitioners' impact on work environments and workers' health. The previous legal requirements for establishment of occupational health service in defined risk trades have been eliminated in Denmark, and currently only a handful of major industries favor from this service to workers and enterprises. What is left are consultative services that offer work environment assessments and advice to enterprises. These services, however, tend to be mostly used by enterprises with high standards and ambitions relating to their work environment, and consequently are prepared to allocate money to ensure this. Occupational health services may also be provided following an enforcement notice from the work environment authority after identification of work environment irregularities or deficiencies. The vast majority of enterprises, however, receive no such service. Furthermore, the provided occupational health services relate to technical, ergonomic, or psychological issues. They address the exposure side only and ignore the worker's health. Enterprises may well subscribe to other services such as psychotherapy and psychological care, but these services have neither a relation to occupational health and safety nor to back-to-work efforts. The lack of medical participation leaves the individual worker, let alone the vulnerable workers who are most in need, without care. Instead, the sick workers who suffer from work-related or non-work-related conditions, need to regularly relate his patients' health condition to work, thereby exerting practical occupational medicine. This is evident even where clinics of occupational medicine are available.

The medical specialty occupational medicine should not be limited to epidemiological studies of physical, toxicological, ergonomic etc. exposures and their potential causal relations to a particular disease. In countries like Denmark our specialties has primarily represented such an isolated focus on etiological factors. Nor should the main focus of occupational medicine be on health examinations of workers, which is the main feature of occupational medicine in many countries world-wide where this is required by legislation or as insurance arrangements. The patients/workers need to be protected from hazards at work and to preserve their health and working capacity. Contribution to achieve this goal should be our main concern relating to health care to workers. At the same time, however, it is emphasized that workplaces share – or should share – the same wish to protect their employees so that they remain healthy and productive.

While it was previously quite common that Danish enterprises had a company doctor (mostly general practitioners with a sideline job) to advise them regarding health issues, most of them ended their practice with the advent in Denmark in the 1980s of occupational health services and hospital based clinics of occupational medicine. There was certainly a need to boost occupational medicine, but regrettably this happened at the expense of the frontline doctor. Curiously, this development occurred in Denmark while other
disorders are instead referred to hospital-based departments of occupational medicine for assessment. This appraisal may result in notification for compensation, advice about treatment and accommodation in their future work, and preventive intervention. However, most patients are seen at late stages of disease and the hospital departments lack the close relations to the enterprises that would facilitate individual considerations to the patients. The situation may differ from other countries but a recent survey of occupational health service in 51 countries demonstrated that the coverage was only 19%.[1]

There is a need for improved occupational health care of workers and enterprises on a global scale. An increased medical input relating to the protection of workers’ health is particularly needed, and in our opinion this change would require an increased participation from family physicians. This Editorial aims to illustrate this new paradigm of “practical” occupational medicine and to argue for its justification.

Four theses on contemporary, practical occupational medicine

We have formulated four theses that represent what we perceive as central issues in contemporary occupational medicine (Table 1).

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Table 1: Four theses on modern occupational medicine.

In the following we will elaborate on these themes with examples relevant to general practice.

Work is not just a dangerous exposure- the broad context of occupational medicine

The scope of occupational medicine should be holistic – and working life and the workplace are relevant issues (for occupational medicine) at all points where these have short or long term impact on health and well-being – not least because the workplace has a prominent place in most adult citizens’ lives.

Thesis I (Table 1) states that contemporary occupational medicine is not limited to a narrow focus on the relation between a potential risk factor and a certain occupational disease. As occupational physicians we proudly recognize the results obtained from analytical etiologic research: The discovery of the relationships between lead exposure and neurological symptoms, asbestos and lung disease, noise and hearing loss, chromate exposure and contact dermatitis etc. Along with these scientific discoveries, however, important improvements of the work environments have taken place worldwide. Consequently to these changes, many classic occupational diseases have disappeared, or have become rare. And when they develop they are usually less serious than previously. There are exceptions and backlogs from past exposure, e.g. asbestos fibers continue to cause pulmonary malignancies. But generally, the classical occupational diseases are gone in the developed parts of the world, although still prevalent in developing countries with poor legislation and/or little control by authorities. Exceptions include allergic conditions for which a sufficiently reduced exposure may remain a challenge. In addition, new patterns of work-related diseases are seen in a global context. These diseases develop consequent to new exposures or exposures of a higher intensity than previously. Examples of the latter are the increasingly frequent musculoskeletal disorders and psychosocial health impairments that are related to increased demands on productivity in order to balance wage expenses with the increased global competition.

What remains is the work itself. This can existentially and culturally be considered both a chore (“sweat of thy face”) and as essential for life and family responsibilities. The work itself should, however, also constitute a positive value, which provides the daily bread, but also represents community values and contributes positively to our happiness and to form and develop our identities.

Consequently, work is a valuable feature, or at least has the potential of being valuable. Is this a statement of medical relevance? Health can be perceived as a fraction with the person’s resilience as numerator, and the external loads representing the denominator. A good job – and the realization that it is good – is a positive thing. The job’s value is worth retaining even though there may be hardships in the work situation. It may be easy and straightforward to spot and refer to such threats in the job. It is, however, important not to limit the focus to the challenges of the work and need less to let the existence of these challenges cause the worker to call sick and turn away from work. Obviously, the work should not be dangerous, and much improvement is still needed, but when it comes to the currently dominating work-related ailments such as mental health conditions and musculoskeletal disorders, it is also essential to address the person’s ability to cope with working life even in the absence of complete health. We are not only dealing with the good work as such, but also with each individual’s ability to turn the job into a good one. This issue has a clinical relevance, which is not least important when the medical practitioner is to help or empower the patient to alleviate and prevent work-related health challenges.

Evidence and the options for acting

Thesis II (Table 1) deals with evidence issues but has also a “narrative” character. Hearing the story told by the patient, assessing the patient thoroughly by a physical examination and scrutinizing workplace exposures and options for improvements may contribute to uncover any existing context and meaning. Based on such an analysis it may be possible to identify and take actions that can make a difference.
In the renaissance of Danish occupational medicine around the 1970s, the practitioners of occupational medicine were run by the righteous indignation because workers were not only exploited but also poisoned, worn or injured. Sometimes the emotions took over and medical rationing came into the background. Obviously, this development was not sustainable for the reputation and survival of occupational medicine. Realizing this, a backlash set in. Epidemiological skills aiming to obtain evidence became now the first priority. This transition led to invaluable research; the problem was, however, that at times the evidence-based way of thinking moved into the consultation room in a wrong way. Patients do not always fit the evidence; and how should the clinician deal with those who do not fit? Furthermore, the lack of evidence, e.g. for relation of a certain exposure to a certain disease, was at times interpreted as the presence of evidence for the opposite, e.g. that such relation did not exist. In a previous debate we highlighted the mindset where the patient’s history in its content as well as in its narrative adds value in itself, and is not limited to constitute a source to be tested against the criteria of evidence.

Any medical practitioner will know this and in fact this recognition is the family physician’s core competency. It is an old truth that the patient will tell you what is wrong if you provide the sufficient time and space to do so. The professional health care provider can then refine the diagnostics and offer the options needed to constructively deal with the consequences and implications of this assessment.

Narrative medicine\cite{3,4} is based on a clinical approach based on hermeneutics (Greek: hermeneutics = art of interpretation). In a hermeneutic context, understanding is achieved and truth is approached through understanding, insight, interpretation, and correction in a circular process. This process can be viewed in two universes: In one universe, the patient will experience his/her own history, which is developed through and while the story is being told; in the second universe, the health care provider – as long as the door between the two universes is open – will hear the patient’s history. The combination of the patient’s history with the medical practitioner’s expertise permits the latter to retell a revised version of relevance for the disease and the patient’s situation. The open door permits the patient and the physician to share the core of the story, which is of relevance for the relationship in between them and thus creates the basis for mutual action.

One of the authors of this article found in a file drawer in the labor inspectorate an old letter from a general practitioner, who described how he, after listening to his patient’s descriptions of acute work-related central nervous system intoxication symptoms, decided to visit the patient’s workplace. He witnessed a significant exposure to vapors from organic solvents and additionally felt the neurotoxic effects of this exposure on his own body. He wrote to the work environment authority in order to share his worries and to have the authority to react. This correspondence took place years before the current focus on and awareness of the potential dangers by neurotoxic organic solvents; but the case history and his verification was sufficient evidence for the practitioner to ask the authority to intervene.

Prospectively assisting the patient in relation to the work

Thesis III (Table 1) has as its main starting point the fact that the work-related diseases that we now face, not least in primary care, are only rarely explained as a caused by one specific exposure factor. The patient’s symptoms – mental or physical – are rather the consequence of the effects of multiple factors. Some of these factors may still constitute an actual exposure to the patient. Others may have previously affected the patient. Some may be exposures that can be either harmful or beneficial, while others may be of a genetic character or represent individual vulnerability or strength. Some factors may be related to work, others not. It is evident that they may either have a negative impact or promote health. Hence, it makes little sense to designate “the” responsible explanatory factor.

The patient who consults the health care provider with a health problem does not always realize this complexity; even doctors would probably have difficulties if they experienced a potentially harmful exposure that could threaten or impair their health. But in order to help the patient the health care provider needs to look at the whole range of determinants for disease and to understand which of these determinants can and should be addressed. The aim is not limited to manage the condition the best possible way so that the patient becomes well again or at least that his condition improves. It is also crucial that the patient can continue to actively function occupationally. Overall, it is essential to help and treat the patient so that the specific knowledge about the impact of the working environment is coordinated with the actual or future medical treatment and rehabilitation – even if the latter take place in another context.

As described in our first thesis, workplacethesis, workplace exposures and the requirements to the workercareworkers’ productivity have the potential to cause disease. They can also contribute to promote health and maintain work capacity. For example, there is good evidence that a person’s risk of developing musculoskeletal disorders is increased by inappropriate ergonomic conditions (such as repetitive work), but at times the risk can also be reduced by helping employees to stay fit\cite{5}. For sports physicians it is a truism that one should be fit to play sports, but in occupational medicine we have tended to rather focus on the hazards of work. Even a person who already has locomotor symptoms may – depending on the character of the condition – benefit from training, which may at times constitute a cornerstone in the treatment. Motivating the patient to stay active may reduce the focus on the sins of the past and encourage to rather look at what may prospectively be helpful.

With a main focus on etiology and sometimes preventive intervention, hospital departments have the potential to help patients in this context. The shortcomings of the work environment authority in order to share his worries and to have the authority to react. This correspondence took place years before the current focus on and awareness of the potential dangers by neurotoxic organic solvents; but the case history and his verification was sufficient evidence for the practitioner to ask the authority to intervene.
The workplace and the enterprise

Regarding Thesis IV (Table 1), we emphasize that not only the individual patient, but also the work environment, the workplace and the enterprise can benefit from actions by a health provider with a mindset characterized by the approach of contemporary occupational medicine. The enterprises should be included in the scope of the medical community because they are legal partners, and because health providers can help them to create better working environments, support the accommodation of their sick or injured workers, and promote the future health of all their employees.

How then can the family doctor be useful to and provide assistance to enterprises? First of all, he can visit workplaces where his patients work. He can meet his patients at work and by being available try to inspire for correction of any pending challenge or problem at the work site. He may note that an insufficient extraction of allergenic substances explains his patients’ airways symptoms, or note ergonomically poorly designed workplaces causing upper limb disorders among his patients. Workplace visits that are justified by rehabilitation or “back-to-work” issues can result in advising temporary relief for the patient to cope with work (rather than just sick leave) and agreement with the management about the next steps to take.

The family doctor may also be available for the enterprise staff responsible for the work environment, when the work places are to be assessed and preventive interventions are to be prioritized, e.g. by contributing to a discussion of exposures and health effects such as the amount of tasks or the speed of the conveyor on one side and the health effects such as stress or shoulder pain on the other side, in order to achieve a better balance between the two.

Taking into account that health remains unevenly distributed even in well-organized and wealthy societies, the family doctor may even participate in efforts extending beyond the working environment and look at other initiatives such as health promotion at work. The issue of keeping workers active and productive is important for the individual as well as for enterprises, which need productive and therefore healthy labor. Finally, the family doctor can be a consultant for the enterprise regarding advice to traveling employees, actions in case of epidemics etc.

The family doctor as a practical occupational physician

With a strategic focus, the hospital-based departments of occupational medicine could increase their activities in relation to work sites. We still see room for company doctors. There is also a need of practitioners of family medicine who act in the context of occupational medicine. Family doctors have already a substantial interaction with the workplace by certifying sick leave and providing statements relating to accommodation at work taking into account the character of tasks that the patient can or cannot perform without the risk of further health deterioration. The experiences of family doctors can further provide benefit to workplaces. Participation in discussions at the workplace with relevant persons (supervisor, union representative, etc.) about specific activities that would facilitate the return-to-work of a worker on sick leave would make it clear for all attendees what the problem is about, how it can be addressed, and ensure that agreements can be kept.

We acknowledge that general practitioners are under time-pressure, but they suggested the suggested angles of occupational health might represent pleasant breaks in their work and provide invaluable benefit to patients as well as to enterprises concerned. A public primary health service would probably facilitate an occupational health engagement for the family doctor while there may be challenges relating to compensation for the occupational health services to enterprises in countries with private primary health care. We think, however, that enterprises that realize the value of occupational health services would be prepared to pay for them like they pay for other business support.

Some family doctors may doubt that they are able to contribute with useful support to the workplace. Our impression, however, is that taking a tour around in the production areas and having a roundtable discussion with management and employees on health and work can in itself be of value. It can make a positive difference for the company, for the workers, and also for the doctor – provided that all participants communicate frankly and open minded. In contrast, it is less useful if the doctor holds an arrogant position where he alone knows the truth, or if the company management goes into a defensive position.

Expanding occupational health service is not only a matter for developed countries but even more so for developing countries that bear the main burden of neglect [6]. We have demonstrated that enterprises in Dar es Salaam do request occupational health services to be provided from an established curative services with adequate professional qualifications[7]. However, however, a recent review addressing other southern African countries has demonstrated a major need of capacitating primary health service with basic occupational health knowledge in order to bridge skills deficit for delivering occupational health service [8]. More developed countries such as Iran have successfully implemented occupational health services that are integrated in the provision of primary health care, which also covers most rural areas, although there is still a need of establishing a policy for collaboration, training, and improved quality of the services [9].

Our thoughts are in line with the recommendations from the “Declaration of Alma-Ata”, which recommends primary health services to address workers health(http://www.who.int/publications/amaata_declaration_en.pdf), and later appeals from the “Global Strategy on Occupational Health for All” by WHO(http://www.who.int/publications/globstrategy/en/), the Seoul Statement on the “Development of Occupational Health Services for All” by the International Commission on Occupational Health (http://www.icoh2015.org/eng/pop/ICOH2015_Seoul_Statement.pdf), and recently in 2012 by the Cancun Charter on Occupation Health for All in 2012(http://www.icohweb.org/site/ multimedia/core_documents/pdf/Cancun%20Charter%20on%20Occupation%20Health%20for%20All.pdf).

Competing Interests

The authors declare that they have no competing interests.

Author Contributions

All three authors have equally participated in the preparation of this manuscript and approved the final version.

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