New York State Occupational Health Clinics

Oversight Committee

Report to the Governor and Legislature

Public Review Draft

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EXECUTIVE SUMMARY

The New York State Occupational Health Clinic Network (NYS OHCN) was the first partially publicly funded, statewide, public health-based network offering clinical and preventive occupational disease services in the United States. It was established to address the need for specialized regional occupational health centers open to all state residents for the diagnosis and treatment of occupational disease. The Network was established in 1987 with six regionally based clinics; it has since increased to ten regionally based clinics, with one additional specialty clinic for agriculture. The clinics reside in a variety of institutional settings, including state and private medical schools, a healthcare insurer, and a local consortium of unions.

The Oversight Committee was created by Section 2490 of the Public Health Law (PHL). The Committee was charged with making recommendations to the governor and legislature regarding the NYS OHCN. This report represents the findings of the Oversight Committee. Specific comments and recommendations (in bold) from the Committee are provided below.

Evaluation of current jurisdictional and oversight responsibilities
Overall, the New York State Department of Health (NYS DOH) has done a very good job in developing and managing the network of occupational health clinics. The structure for communication and information flow among the clinics and NYS DOH is very useful. The requirement for local advisory boards has been very helpful in ensuring that the clinics are responsive to their core mission and to local needs. The NYS DOH has faced difficulties due to funding limitations and the diversity of institutions that operate these clinics.

Coordination with other agencies. In order to fulfill the mission of the NYS OHCN, coordination between NYS DOH and other state agencies such as the Department of Labor (DOL) and the Workers’ Compensation Board (WCB) could be helpful. The Committee recommends that NYS DOH and other state agencies take steps to work more closely with each other on the occupational health clinic program.

Coordination and sharing of clinic resources and services
The clinics have worked together on numerous projects including but not limited to hazardous waste training; pesticide specialist training; and education on the Health Show, a nationally syndicated weekly public radio program. The clinics also provide technical and administrative assistance to each other.

Consistency of services. The Committee notes the sharp differences in distribution of frequencies of patient diagnoses by clinic. This spectrum of patients evaluated and the services emphasized by each of the clinics reflects in part the interests and history of the clinic and may not necessarily reflect the broad set of needs of the local communities. Needs assessments should be completed at least once during the five year contract cycle by each clinic.

Dissemination of research results and educational information
Network staff collaborated to develop nine clinical practice reviews, which were published in the American Journal of Industrial Medicine. These were designed to assist clinicians in the diagnosis, treatment and prevention of occupational conditions. The clinics have developed a breadth of educational materials to meet their particular needs and have also published numerous articles in peer-reviewed journals.
Sharing of materials. The clinics should exercise leadership in professional education and clinical research. To aid in this process, there should be a more efficient method of sharing educational materials between the clinics that will allow them to develop and print materials, as needed, in a more cost-efficient manner.

Identification of funding sources for the Network
Workers’ Compensation Law (WCL) § 151 provides for the administrative expenses of the Workers’ Compensation Board (WCB). Included in the WCL § 151 assessment is an “additional sum as may be certified to the chair and the department of audit and control… for the New York state occupational health clinics network”. Each year, the NYS DOH makes a budget request for the clinics and when the final amount is approved and certified, the WCB includes it in its § 151 assessment bills. All assessment money collected is transferred to the NYS DOH for distribution to the clinics.

Increased funding. The occupational health clinics continue to address a significant need for occupational health services in New York State that is not being otherwise addressed. The NYS DOH has done a very good job of developing and managing the clinic network. Unfortunately, the current funding is not adequate to the overall mission and objectives for the occupational health clinics. Therefore, the Committee recommends that funding for the clinic network should receive an annual inflationary increase to stay current with the medical care services inflation and the increase in the number of patient visits requiring ongoing treatment (see Section F). This represents less than a 1 percent increase from the total §151 assessment, which should not be reflected as any increase in workers’ compensation costs for employers. This should include an increase to the NYS DOH to facilitate greater oversight of the fund. The impact of this increase, including costs to employers, should then be evaluated.

Outside services. In order to increase revenue coming into the clinics, the clinics should continue to develop appropriate outside services that are compatible with their basic state-supported mission. These may include contracts with employers for some occupational health services. These services should be consistent with assessed needs and should, in most cases, be self-supporting.

New opportunities for the clinic network. Recent changes in federal and state programs also provide opportunities for the clinic network. The recent health reform legislation passed by Congress expands the requirements for preventive services. These new requirements provide an opportunity for the clinic network to expand the type of services offered by the clinic. The Committee recommends that the clinic network explore expanding their services to address these changes.

The effectiveness of the clinics in meeting the objectives
The network of occupational health clinics has done a very good job of addressing their original mission of providing high quality occupational medicine services, specializing in the diagnosis, treatment and prevention of occupational diseases. The NYS DOH has established a network of clinics providing occupational health services in all regions of the state, and these clinics are providing a high volume of occupational medicine services to people with occupational diseases. The public health approach has allowed the clinics to be in a unique position to respond to exposure episodes and disease clusters. Overall, this has been a very successful effort.
During its review, the Committee found some issues with the occupational health clinics that need to be addressed. Some of these are due to restraints on available funding; however, others could be overcome with administrative changes in the manner in which the clinics are managed.

**Balance of services.** In many of the clinics, a high proportion of the available clinical resources are being applied to the ongoing treatment of patients (particularly those with musculoskeletal problems). This reflects the low reimbursement rate from the WCB for medical services and the reluctance of other providers to provide these services. This makes referrals from the clinics to appropriate community providers after diagnosing work-related illnesses difficult. There also is a sense among some occupational health clinics that they provide better treatment for such patients than the patients might receive in the general community. This increase in the proportion of resources devoted to treatment has resulted in fewer resources being devoted to occupational disease diagnostic and preventive services and thus fewer new patients being seen by the clinics. The WCB has recently increased its reimbursement rates, though whether this will revive the interest of many physicians to provide treatment for occupational conditions is unclear. The NYS DOH should develop broad targets for the ratio of diagnostic visits to treatment visits and otherwise work with the WCB and the occupational health clinics to address this issue.

**Limited preventive and educational services.** The network is mandated to provide preventive services to help address occupational health problems in workplaces in their regions. Although the primary purpose of the occupational health clinics is to provide diagnostic services for occupational diseases, the clinics should also play a key role in other areas including prevention of occupational illnesses; education of health care providers, workers, and employers about occupational health; and research on occupational diseases and their prevention. These essential functions present enormous opportunities to amplify the impact of the NYS OHCN. However, provision of these services has been constrained by the lack of funding provided to the clinics. Concomitant with the increased funding, the Committee recommends an increased emphasis of the clinic network and the individual clinics on these areas including more coordination with the state and federal occupational health agencies.

**Disparities in meeting needs and providing services.** The Committee observed that there were significant differences in the clinical services and populations served by the different clinics. While some of this can be explained by regional differences, there are large differences even within similar regions. These differences are also reflected in the outreach efforts by the different clinics. Services and outreach focused mainly on selected groups or illnesses limit the access of people from other industries or with other illnesses to the clinics. While some of these differences may be justified, the observed disparities support the notion that there are continued unmet needs and limits the ability of the clinics to function as a network. Each clinic should use its needs assessments to determine if the clinic is providing necessary services to the identified high-risk populations.

**Failure to meet basic objectives of the network.** One of the clinics appears to only be providing general medical exams and has diagnosed very few occupational diseases in its regional population, which is likely to have the highest burden of occupational illnesses in the state based on the industries within their catchment area. This situation has gone on for many years with little change on the part of the clinic. The NYS DOH has met with the clinic and has identified specific steps the clinic needs to take. These will be included in the 2011-2012 contract to focus the clinic on taking immediate steps to address this problem. This process
should be continued until the clinic refocuses its medical services and outreach to work-related illnesses.

**Needs that may be met by one or more clinic**
New York’s economy is changing and these employment changes are reflected in the profile of the patients being seen in the clinics. In general, the occupational health clinics have adjusted their outreach to address regional needs for services and to address major groups in the work force needing services.

**Representativeness of advisory boards.** The clinic advisory boards should be representative of the local community with a mix of business, union, public health and community groups represented. The composition of these boards should be periodically reviewed and there should be consideration of new members to reflect the needs identified within the community.

**Development of Return to Work programs.** It has been well established that those who return to work as soon as medically possible after an occupational injury (e.g., being offered a modified duty or redesigning the work station), often have a better chance of staying in the workforce over the long term. The NYS OHCN could offer employers an additional benefit by certifying their staff to conduct Return to Work evaluations as specified in Department of Labor Code Rule 60. With greater awareness of the NYS OHCN and their ability to provide these services, injured workers could be evaluated sooner, increasing their chances of an accurate diagnosis and assessment, thereby improving their chances of successfully re-entering the workforce.

**Other issues as determined by the Oversight Committee**

**Problems with support from the parent institution.** One of the clinics has had problems due to an antagonistic relationship with the medical school through which it receives its funding. This has been an ongoing problem for many years and has resulted in many administrative problems. The advisory board for this clinic expressed serious concerns about these problems. NYS DOH has worked with the school to improve the situation. This work needs to continue to assure appropriate steps are taken to address this issue.

**Improved management of clinic network.** The Committee believes that the NYS DOH has done a very good job of developing and managing the NYS OHCN. The Committee is recommending some improvements including addressing problems at two of the clinics as previously outlined. The Committee also recommends a more active management process. The current clinic contracts do not necessarily match the applications submitted by the clinics in response to the NYS DOH request for applications (RFA). The applications usually requested more funding than was awarded and hence usually promised more services than can be supported through the actual contact award. The Committee recommends that NYS DOH implement a procedure where the annual contracts include requirements for specific services in the major areas of clinic activity (i.e., clinical services, outreach, etc.) that is realistic given the amount of funding awarded to each clinic.

**Implementation of recommendations in requests for applications**
The Oversight Committee plans to use the recommendations from this report to provide advice to the NYS DOH in the writing of the next Request for Applications (RFA). This activity will
occur in 2011 with a planned release of the RFA to occur in 2012 for the next five year funding cycle beginning in 2013.
I. INTRODUCTION

A. History of the Formation of the New York State Occupational Health Clinic Network

The New York State Occupational Health Clinic Network (NYS OHCN) is unique in the United States as a partially publically funded, statewide, public health-based network offering clinical and preventive occupational disease services. It was established to address the need for specialized regional occupational health centers open to all state residents for the diagnosis and treatment of occupational diseases (Mount Sinai School of Medicine, 1987). An evaluation of the problem of occupational disease in New York State conducted by the Mount Sinai School of Medicine focused upon assessing the nature, magnitude and costs of occupational disease in New York State and developed recommendations for improving the recognition, prevention and treatment of occupational disease. The study estimated that occupational exposures were responsible for more than 35,000 new cases of disease and 5,000 to 7,000 deaths each year in New York State. The annual cost, in 1985 dollars, was estimated to be over $600 million for five disease categories - cancer, chronic respiratory disease, pneumoconioses, strokes and coronary heart disease, and fatal kidney disease. The majority of these costs were borne directly by the ill workers and/or their families.

The evaluation concluded that the state's resources, both in clinical facilities and professionals trained in occupational health, were inadequate to meet the public health need and recommended that the State of New York establish a statewide network of occupational health clinics. As a result, the New York State Legislature appropriated $1,000,000 from the general fund for six regional clinics in 1987. Funding for the clinics was transferred in 1989 to the Workers Compensation Board through an amendment of subdivision 2 of section 151 of the workers' compensation law.

B. Implementation of the New York State Occupational Health Clinic Network

The Network was established in 1987 with six regionally based clinics; it has since increased to ten regionally based clinics, with one additional specialty clinic. The clinics reside in a variety of institutional settings, including state and private medical schools, a healthcare insurer, and a local consortium of unions.

The NYS OHCN was established to achieve five main goals:

1. to contribute to the quantification and description of the occupational disease burden in the state;
2. to increase the accuracy of the diagnosis of occupational disease;
3. to improve the treatment and management of occupational disease;
4. to contribute to the prevention of occupational disease; and
5. to strengthen and expand training programs in occupational health for professionals at all levels.

The clinics employ multidisciplinary teams of physicians, nurses, industrial hygienists, health educators and social workers trained in occupational health, to perform a variety of prevention activities as well as to provide clinical services. Staff is able to provide diagnosis and basic treatment for the full range of occupational diseases, along with evaluating the work conditions.
of the patients to determine whether co-workers are at risk and to improve the workplace environment. The clinics are open to anyone in New York State with a potential work-related illness. A sliding fee scale assures access for those without health insurance. Receiving funding from New York State allows clinic staff to spend more time with each of their patients than typical health care facilities.

The clinics are located throughout the state in order to meet specific regional needs with two clinics located in the New York City region (Figure 1). In addition, legislation was enacted (Article 39 of the Public Health Law, PHL) that established a clinic to provide services in the area of agricultural safety and health (the New York Center for Agricultural Medicine and Health, NYCAMH). While occupational medicine practice is generally similar through all regions of the United States, integration of practice with specific local needs is desirable. Therefore, each clinic maintains a local advisory committee consisting of local businesses, organized labor, the medical community, local elected officials, community and/or health organizations, environmental groups and government representatives from federal, state and local health and labor offices. These boards reach into their own communities to raise awareness of clinic services and learn more about local needs. Each clinic also focuses on the high-risk industries and occupations within their area. When overlap of these services are identified, the Network works together to meet the general needs of New York workers.

Figure 1. Location and Catchment Areas of the New York State Occupational Health Clinics

Administrative and scientific oversight of the NYS OHCN is provided by the New York State Department of Health (NYS DOH). Quarterly meetings are held that include the medical
directors and other professional staff from each clinic, as well as NYS DOH representatives. The day-long meetings are used to discuss a variety of administrative, medical and public health issues, and to enhance collaboration and help identify emerging occupational health risks. The clinics submit quarterly status reports to the Department that summarize their activities for the preceding three months; and each clinic submits an annual report that provides a more comprehensive summary of their activities for the previous year. Information on each patient visit, stripped of patient identifiers to ensure confidentiality, is provided to the NYS DOH. Each clinic enters data on all visits that occur at their clinics and satellite offices and this information is automatically uploaded to a NYS DOH secure server. The NYS DOH conducts quality control of the data and, when necessary, the clinics are responsible for making appropriate corrections to their data. These data are used to identify hazards, risk factors and trends; direct resources on emerging problems; create prevention strategies; and evaluate the success of various interventions.

Requests for Applications for clinic funding are issued every five years, and after a competitive process with review from both NYS DOH reviewers and external individuals, contracts are awarded for five-year periods. In 1992, contracts were awarded to eight clinics; then in 2008, the number of contracts awarded was expanded to 10 clinics plus the agricultural specialty clinic.

C. Occupational Health Clinics Oversight Committee

The Oversight Committee was created by Section 2490 of the PHL. The PHL indicates that the Oversight Committee is to be comprised of 15 appointees. Thirteen positions are currently filled. These include representatives from the NYS DOH, the Department of Labor (DOL), the Workers Compensation Board (WCB), nominees from the American Federation of Labor - Congress of Industrial Organization (AFL-CIO) and from the Business Council.

The Committee was specifically charged with making recommendations to the Governor and the legislature regarding:

- A. statewide needs to be met by the network;
- B. coordination of clinic activities with not-for-profit, private sector concerns and state agencies, including but not limited to an evaluation of current jurisdictional and oversight responsibilities;
- C. coordination and sharing of clinic resources and services;
- D. dissemination of research results and educational information;
- E. identification of funding sources for the network;
- F. the activities of the clinics and their effectiveness in meeting the objectives as set forth in statute and in clinic-specific contracts with the state;
- G. local, regional, occupation or business-sector specific needs that may be met by one or more clinic;
- H. other issues as determined by the Oversight Committee; and
- I. incorporation of provisions to implement its recommendations in requests for applications for state funding for occupational health clinics.

The Oversight Committee was originally authorized in 1989 through PHL 2490. In 2008, simultaneous with an increase in funding appropriated to the NYS OHCN, the Committee was established. Appointments were initiated in 2009 and a quorum existed by September 2009. The first meeting was held in January 2010 and the Committee has subsequently met in person quarterly, with two additional meetings by conference call. In order to learn more about the
network, the Committee heard from the medical directors of each clinic and from a representative of each clinic’s advisory board. The Committee also heard from the Acting Medical Director for the NYS Workers’ Compensation Board (WCB), and from the director of the public employee division of the NYS AFL-CIO. All meetings were open to the public. A time period devoted to take testimony was provided in two of the meetings. All meeting announcements were posted on the NYS DOH public website prior to the meetings.

NYS DOH responded to requests for information from Committee members through a private website that allowed communication, file storage, and discussion. Background information in the form of the original Mount Sinai report (Mount Sinai School of Medicine, 1987), the summary of the clinic data from 1988 through 2003, and the most recent Request for Application was provided. Clinic-specific information including copies of the clinics’ quarterly and annual reports; advisory board membership lists, meeting agendas and minutes; listings of peer-reviewed publications from the clinics, educational materials developed by the clinics, success stories, and examples of collaborations between the clinics were posted on the website. The successful applications from the last funding cycle in 2008 were also provided.

II. SUSTAINING ACCESS TO OCCUPATIONAL MEDICINE EXPERT CARE: CONTINUED NEED FOR OCCUPATIONAL HEALTH CLINIC NETWORK

A. Statewide Needs to be Met by the Network

There are over nine million workers in New York State, of whom six percent are self-employed; 53 percent are male and 15 percent are of Hispanic origin (US Department of Labor, 2011). Figure 2 displays the distribution of civilian employment in New York State by industry of employment.

According to the Bureau of Labor Statistics, there were an estimated 181,100 work-related injuries and illnesses in New York State in 2007, but this number is known to be severely underestimated (US General Accounting Office, 2009). The rate of work-related injuries and illnesses, by industry, is also displayed in Figure 2. Workers employed in the public sector, including police, corrections, nursing home and health care workers, experience the highest rate of work-related injuries, and also represent the second highest employment in New York State. Other high-risk industries include transportation, construction, and education and health services – all of which employ a large number of New Yorkers. Over 14,000 work-related hospitalizations occur annually, but again, research suggests that this represents less than one-half of the true number of work-related hospitalizations (unpublished data, NYS DOH). Over 200 traumatic occupational fatalities occur every year. In 2007, there were 3.537 billion dollars spent on Workers’ Compensation benefits in New York State (National Academy of Social Insurance, 2010).
At the time that the clinic network was established, there was a shortage of occupational medicine specialists in the state. Most were employed by private industry (either directly or under contract), and people with occupational diseases (or suspected of having work-related illnesses) had very few clinical resources available to them for the diagnosis of occupational diseases. Without the availability of these services, these patients had difficulty learning whether their health problems might be related to work and establishing workers’ compensation claims for these illnesses. Health insurance companies would often deny such claims (personal or group health insurance does not cover work-related illnesses or injuries) leaving the ill person with little recourse other than paying for the diagnostic and treatment services themselves.

The 1987 Mt. Sinai report also documented (to the extent possible with the available surveillance data) the high burden of occupational illnesses among New York State residents. Occupational diseases such as asbestosis, silicosis, lead poisoning, carpal tunnel syndrome, occupational cancers, and other chronic occupational illnesses were prevalent among New York State residents, and many of the hazards contributing to these illnesses were still common in New York State work sites. Prevention of these hazards was hampered by the failure to diagnose or conduct surveillance for these occupational diseases due to the dearth of occupational medicine resources throughout New York State.
These fundamental problems continue in New York. There is still not an adequate number of occupational medicine physicians in the state. In 2007, there were 116 board-certified occupational medicine physicians, of whom some are retired. Occupational safety and health professionals are increasingly working for consulting firms that provide safety and health services on a contractual basis, and most continue to work directly for employers or under contract with employers to provide occupational health services (Institute of Medicine, 2000). The sole occupational medicine physician training program in the state, administered at Mount Sinai School of Medicine, graduates fewer occupational medicine physicians annually at present than in 1987 (Mount Sinai School of Medicine, 1987). Without the NYS OHCN, many people with occupational illnesses would have difficulty finding a well-trained physician to diagnose and treat their illness and to help them navigate the still difficult workers’ compensation system. There has also been a steady decline in New York State in the number of other occupational safety and health professionals including board-certified occupational health nurses, industrial hygienists, safety engineers and other safety health professionals (Council of State and Territorial Epidemiologists, 2011). There is no recent information about teaching of occupational health in medical schools in the United States; however, the last survey in 1992 found that only 60 percent of medical schools required occupational health as part of the curriculum with an average of six hours of teaching (Burstein, 1994), suggesting that the majority of physicians may not be able to successfully recognize, treat or prevent work-related illnesses and injuries.

Although there have been significant shifts in employment patterns in New York State since 1987, a significant number of New York State residents continue to work in jobs with occupational health hazards that put them at risk of developing occupational related illnesses. Due to the characteristic long latency between exposure and subsequent onset of chronic occupational disease, many people who worked in “older” industries are still at risk of developing serious occupational illnesses even though they may not have been exposed for many years. The contribution that the clinic network makes for occupational disease diagnosis, treatment, and prevention continues to fill a unique and vital need in New York State.

B. Coordination of Clinic Activities with Not-For-Profit, Private Sector Concerns and State Agencies, Including but not Limited to an Evaluation of Current Jurisdictional and Oversight Responsibilities

The NYS DOH has done a very good job in developing and managing the network of occupational health clinics. The data portrait of the clinics assembled by NYS DOH is excellent. The structure for communication and information flow among the clinics and NYS DOH is very useful. The requirement for local advisory boards has been very helpful in ensuring that the clinics are responsive to their core mission and to local needs. The NYS DOH has faced difficulties due to funding limitations, and the diversity of institutions that operate these clinics. The NYS DOH has funded the clinics through contracts that are awarded through a competitive Request for Applications (RFA) process every five years. Given the paucity of occupational medicine specialists and services and the diverse nature of the mission of these clinics, there has been relatively little competition for the contracts. While this might be expected, the lack of competition can stifle innovation and lead to poor performance on the part of some individual clinics. There are concerns about whether the contracts with some clinics should be renewed or maintained. These challenges place a greater onus on the NYS DOH to use the RFA and
contract management process to ensure that the clinics receiving the awards fulfill the mission of the clinics.

**Recommendation**

**Coordination with other agencies.** In order to fulfill the mission of the NYS OHCN, coordination between NYS DOH and other state agencies could be helpful. In particular, NYS DOL and the WCB could benefit from more involvement with the clinic network and, at the same time, be helpful to the clinics. The Committee recommends that NYS DOH and other state agencies take steps to work more closely with each other on the occupational health clinic program. Examples of activities that would be mutually beneficial would be training administrative law judges in the use of the WCB Medical Treatment Guidelines; designing and providing medical management for return-to-work programs for employers; and providing information about the clinics to prospective patients and employers.

C. **Coordination and Sharing of Clinic Resources and Services**

As described earlier, NYS DOH meets with the members (i.e., medical personnel and administrators) of the clinics every quarter. In general, at each meeting the clinics rotate in presenting a case report that is used to educate the other clinics about unique issues being encountered. In addition, there is often a discussion of sentinel events where the clinics can share information about interesting cases and request input from the other clinics about appropriate follow-up for their patients. Prior to each meeting, the required quarterly reports are shared with the other clinics, and there is time during lunch to allow the clinic members to discuss issues with each other.

A groupsite has been created on the internet that allows for sharing of documents between the clinics. The site is available only to the clinics, and each member of the site is allowed to post information they believe is relevant to the other clinics. Minutes of meetings, quarterly reports, and discussion groups are all available on this site.

The clinics have worked together on numerous projects. A partial list of these is provided below:

- **Hazardous Waste Training:** For the past seven years, three clinics have collaborated to provide over 20 classes of eight-hour update trainings annually to approximately 450 unionized operating engineers.
- **Pesticide Specialist Training:** Three clinics presented lectures at a statewide joint labor-management conference regarding health effects associated with pesticide exposure. Over 200 people attended these lectures.
- **Education on the Health Show:** The Health Show ran a series of 11 shows on occupational health with interviews conducted with occupational health experts. This series showcased the clinic network. The Health Show is a nationally syndicated weekly public radio program produced by the National Productions unit at Northeast Public Radio. It can be heard on nearly 200 public radio and ABC radio stations around the country reaching approximately 400,000 people. The program is also heard in 138 countries on U.S. Armed Forces Radio. The Health Show covers all aspects of modern health: prevention, treatment, research, administration and more.
• **Collaboration with the New York Center for Agricultural Medicine and Health:** Various clinics have utilized the services of the specialty agricultural clinic, including training fishermen on health and safety, and conducting education and outreach and running clinics with farmworkers and migrants. These activities reached approximately 360 people.

• **Staff Assistance:** The clinics have assisted each other when there are staff shortages and have sent new staff to other clinics for training purposes. Medical directors have both gained experience and have assisted in providing direction to other clinics with new directors; and staff has received training from other clinics for activities such as firefighter programs.

**Recommendation**

**Consistency of services.** The Committee notes the sharp differences in distribution of frequencies of patient diagnoses by clinic. This spectrum of patients evaluated and the services emphasized by each of the clinics reflects in part the interests and history of the clinic and may not necessarily reflect the broad set of needs of the local community. Needs assessments should be completed at least once during the five year contract cycle by each clinic. Each clinic should include one project annually focused upon reaching a high risk population in their catchment area.

**D. Dissemination of Research Results and Educational Information**

One of the goals of the clinic network is to improve the treatment and management of occupational disease in New York State. Network staff collaborated to develop nine clinical practice reviews, which were published in the January 2000 issue of the *American Journal of Industrial Medicine*. These were designed to assist clinicians in the diagnosis, treatment and prevention of the following occupational conditions:

- Medical examination for asbestos-related disease
- Clinic evaluation and management of lead-exposed construction workers
- The diagnosis and management of solvent-related disorders
- Clinical evaluation and management of work-related carpal tunnel syndrome
- Evaluation and management of chronic work-related musculoskeletal disorders of the distal upper extremity
- Evaluation and management of occupational low back disorders
- Occupational hearing loss
- Clinic evaluation, management and prevention of work-related asthma
- Medical evaluation for respirator use

These reviews integrated primary, secondary and tertiary disease prevention approaches into the clinical model by emphasizing a team approach to the diagnosis and treatment of occupational diseases.

Each clinic is required to have an advisory board that assists in setting policy for that clinic. This has allowed for a network of partners to be developed that are useful for disseminating information into the working community. These partnerships, along with other outreach endeavors, have allowed the clinics to enlist communities in prioritizing occupational health problems, determining and evaluating potential interventions, and then actually testing these interventions with the goal of widespread dissemination.
The clinics develop educational materials to meet their particular needs. A partial list of these materials has been collated and is available in Appendix A. These materials show the breadth of work with which the clinics are involved. The clinics also publish numerous articles in peer-reviewed journals. A list of the articles published from 2004 is provided in Appendix B.

**Recommendation**

**Sharing of materials.** The clinics should exercise leadership in professional education and clinical research. To aid in this process, there should be a more efficient method of sharing educational materials between the clinics that will allow them to develop and print materials, as needed, in a more cost-efficient manner.

**E. Identification of Funding Sources for the Network**

Workers’ Compensation Law (WCL) § 151 provides for the administrative expenses of the WCB. This statutory provision requires the WCB to annually prepare an itemized statement of its expenses and authorizes the Chair to assess upon and collect a proportion of such expenses from each insurance carrier, the state insurance fund and each self-insurer, including group self-insurers, writing workers’ compensation insurance in New York State. Included in the WCL §151 assessment is an “additional sum as may be certified to the chair and the department of audit and control… for the New York state occupational health clinics network…” [WCL §151 (2) (a)].

Each year, the NYS DOH makes a budget request for the clinics and when the final amount is approved and certified, the WCB includes it in its §151 assessment bills. The WCB does not set the budget amount and has no authority to increase or decrease the funds. All assessment money collected is transferred to the NYS DOH. In essence, the WCB acts as an assessment and collection agent for the NYS DOH. Table 1 represents monies appropriated and collected by the WCB for the Occupational Health Clinics Network during the past four years.

<table>
<thead>
<tr>
<th>Year</th>
<th>Appropriation</th>
<th>YTD Transfers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007 – 2008</td>
<td>$6,108,000.00</td>
<td>$6,275,372.65</td>
</tr>
<tr>
<td>2008 – 2009</td>
<td>$6,141,200.00</td>
<td>$5,954,326.82</td>
</tr>
<tr>
<td>2009 – 2010</td>
<td>$10,188,000.00</td>
<td>$10,961,760.62</td>
</tr>
<tr>
<td>2010 – 2011</td>
<td>$10,135,900.00</td>
<td>$9,861,421.27</td>
</tr>
</tbody>
</table>

The appropriation for the clinics has been approximately $10 million for the past two fiscal years. The differences in the appropriated amounts and the transferred amounts are due to payment variances by the insurers and are adjusted from year to year.

The budget for the occupational health clinics has not kept up with the demands and needs for services from the clinic. The budget for the network was flat for many years, and the increased funding provided in the 2009 state budget is not adequate to fully support the efforts of the network. Other sources of funding could be helpful, but these sources also have limitations. For example, potential sources (payments from the WCB for treating patients in the clinics) are
often inadequate to cover costs. The clinics currently receive additional reimbursement from the WCB, health insurance, and other private sources (e.g., employers). This ranges from minimal to approximately one-third of their overall budget for clinical services. There are large differences among the clinics in how much additional reimbursement they seek and receive. There are outside sources of income for the clinics that could be pursued without diminishing the overall mission of the clinics. These include contracts with employers for some occupational health services. The WCB may also provide opportunities including assisting in return to work evaluations and helping the employer establish a return to work program. These additional services need to be compatible with the basic mission of the clinics and in a manner that does not impact their mission. The Committee also recommends that in most cases such additional services should be self supporting (i.e., the state funding for the clinics should not support these services). Figure 3 displays the annual funding of the NYS OHCN since 1991 compared to what the funding should have been if it kept up with the cost of medical care services inflation according to the Bureau of Labor Statistics (US Department of Labor (a), 2011).

Figure 3. Annual Occupational Health Clinic Network Funding vs. Inflation Adjusted Funding
Recommendations

Increased funding. The occupational health clinics continue to address a significant need for occupational health services in New York State that is not being otherwise addressed. The NYS DOH has done a very good job of developing and managing the clinic network. Unfortunately, the current funding is not adequate to the overall mission and objectives for the occupational health clinics. With additional funding, the clinics could provide more clinical services and better educational, outreach, and preventive services. Therefore, the Committee recommends that funding for the clinic network should receive an annual inflationary increase to stay current with the medical care services inflation and the increase in the number of patient visits requiring ongoing treatment (see Section F). This represents less than a 1 percent increase from the total §151 assessment, which should not be reflected as any increase in workers’ compensation costs for employers. This should include an increase to the NYS DOH to facilitate greater oversight of the fund. The impact of this increase, including costs to employers, should then be evaluated.

Outside services. In order to increase revenue coming into the clinics, the clinics should continue to develop appropriate outside services that are compatible with their basic state-supported mission. These services should be consistent with the needs assessment (described above) and should, in most cases, be self supporting. The recent changes to the NYS Workers’ Compensation Law provide an opportunity to develop new services that will also assist in the implementation of that law.

New opportunities for the clinic network. Recent changes in federal and state programs also provide opportunities for the clinic network. The WCB is currently implementing medical guidelines and other changes required by legislation passed in 2007. There are opportunities for the clinic network to assist in this implementation and possibly to provide new services such as return to work evaluations. The recent health reform legislation passed by Congress expands the requirements for preventive services. These new requirements provide an opportunity for the clinic network to expand the type of services offered by the clinic. The Committee recommends that the clinic network explore expanding their services to address these changes.

F. Activities of the Clinics and Their Effectiveness in Meeting the Objectives as Set Forth in Statute and in Clinic-Specific Contracts with the State

The network of occupational health clinics has done a very good job of addressing their original mandate. The NYS DOH has established a network of clinics providing occupational health services in all regions of the state, and these clinics are providing a high volume of occupational medicine services to people with occupational diseases. Occupational medicine resources have been established in major medical centers that previously did not have such comprehensive services. Within the constraints of their present resources, they are also providing outreach and preventive services within their regions. In 2010, the clinic network provided medical services to 6,355 patients of which 6,096 were occupationally related. Overall, this has been a very successful effort. The centers have all established advisory boards that represent their regions and help to ensure that regional needs are being addressed.
There are numerous stories detailing the success of the clinics in identifying, treating and assisting patients with occupational disease. Below are a few of these stories.

- A worker/patient had been employed for 13 years climbing communications towers. Due to many serious injuries related to this physically demanding and dangerous work, the patient could no longer safely work in that occupation. While completing a bachelor’s degree in political science, the patient’s interest in worker health and safety policies led to an internship with one of the clinics and the development of a project for which he has received one of the nation's highest awards for occupational health and safety, the Tony Mazzochi Award by the Occupational Health Section of the American Public Health Association. The Tall Towers Health and Safety Project has brought together workers from this growing industry to develop a safety and health agenda and strategy for the industry.

- A tip regarding massive wage violations led two clinic outreach workers to uncover a labor trafficking operation of 19 H-2B (non-agricultural temporary worker program) food service workers (lawfully present in the United States). The clinic conducted physical examinations on about half the workers, and found they suffered from dehydration, hunger, insect bites, burns, musculoskeletal problems, and health problems worsened by their working conditions. The clinic was able to marshal state and federal agencies to address the situation, which resulted in the arrest of the trafficker, who had been conducting his activities in New York for about a dozen years.

- Workers at a large industrial laundry reported routinely finding and getting stuck with needles hidden in sheets and other laundry originating in area hospitals. In addition, there were worker concerns over excessive noise from a row of large dryers. The clinic conducted a site visit, measured noise levels, interviewed workers, observed the work process, and talked with management. While recommendations were made to the employer to bring them into compliance, the employer chose not to implement any of the recommendations. Therefore, an OSHA complaint was filed. OSHA’s inspection revealed numerous violations resulting in significant fines, and workplace changes to make this dangerous work safer.

- A woman who was a long time Department of Motor Vehicles employee presented to a clinic with chronic neck, shoulder and arm problems. Almost all of her work day was spent on a computer. The clinic industrial hygienist was able to perform a workplace evaluation and identified a number of problems with the ergonomic set up of the patient’s work setting. These were corrected and the patient was able to continue working with reduced symptoms. Over a period of years, this process was repeated several times. The patient’s symptoms were exacerbated when changes in her workstation were instituted by the employer. They were re-evaluated by the industrial hygienist and further modifications were made. As a result of this long-term relationship and process, this particular worker was able to stay on the job for at least 10 years longer than she would have been able to if no workplace changes had been made.

- A dental hygienist at a community health center had been diagnosed with asthma, but still needed to use her rescue bronchodilator inhaler several times a day. Evaluation at the clinic showed her asthma to be work-related, associated with latex exposure. Because she could not work and had become destitute, the clinic negotiated with the union to get her placed on short-term disability until her Workers’ Compensation case was established. The clinic was then able to work with her employer to thoroughly clean the health facility and replace all powdered latex gloves with vinyl or nitrile gloves. This allowed the patient to return to work, and after three years, she had no further asthma symptoms.
• One clinic medical director provides occupational safety and health education to the local, state and national firefighting communities. Educational workshops and presentations have been provided at the following conferences: NYS Professional Firefighters Association; NYS Association of Fire Chiefs; Fire Department Instructors on preventing occupational illness and injury.

• Various clinic medical directors have assisted the WCB in writing the medical treatment guidelines that were released in December 2010. In addition, two of the clinic medical directors have also been acting medical directors for the WCB.

• The clinical practice reviews written by the network (American Journal of Industrial Medicine, 2000) were used by the clinic network to guide clinical practice and as a tool to foster quality of care and consistent practice. A quality assurance/quality improvement (QA/QI) program was developed and implemented to enable the clinics to evaluate the level and consistency of care provided in the diagnosis of each of those conditions chosen for the clinic practice reviews. The QA/QI process also enabled the network to evaluate the quality and consistency of case management and the degree to which prevention is integrated in to the clinics’ practices.

• Various clinics have been involved in working with migrant farmworkers. They provide general and preventive health services for conditions such as back, neck or arm strain, skin rashes, eye injuries and respiratory problems. The specialty agricultural health clinic developed a manual to assist health care professionals in the examining room. This manual provides information ranging from cultural differences of various migrant groups to descriptions of specific commodity work and the patterns of injury documented for each commodity. Treatment guidelines for common problems are included, as are photocopy-ready patient information sheets in Spanish and Creole.

Disaster Response. The public health approach has allowed the clinics to be in a unique position to respond to exposure episodes and disease clusters. In the past decade, a few situations, as described below, have occurred where the clinics have made substantial contributions.

World Trade Center Response
One illustration of the importance of the NYS OHCN was its rapid and multifaceted response to the World Trade Center terrorist attack. Occupational medicine physicians from the network recognized the potential respiratory illnesses that might result from exposure to the dust and smoke during the rescue and recovery work at the site. Within days after September 11, they began to treat patients who became ill as a result of exposure to the dust released during the collapse of the towers. They initiated medical studies to evaluate possible health problems among these workers. Once they started to document serious health problems, they expanded their efforts and (with federal and philanthropic funding) established a medical screening program for the thousands of workers who were exposed at the site. This effort was then expanded to include the other regional clinics who were able to provide services to rescue and recovery workers who had responded from their regions. This provided the basis for documenting serious occupational illnesses in thousands of these workers, and the effort has been expanded to include medical treatment for these workers funded by the federal government. The NYS OHCN provided a major expert resource for the needed diagnosis and treatment for these many workers. Without such a readily available resource, the health problems being experienced by the rescue and recovery workers might not have been so rapidly recognized, and the overall effort to establish the medical program needed for these workers would have been much more difficult. In addition, the prior coordination of the
occupational health clinics as a network facilitated a collaborative and efficient clinical occupational health response to the demand for care from affected persons.
Anthrax Response
Also in 2001, letters containing anthrax were mailed to a variety of locations in New York City along with other places in the United States. At least 22 people developed anthrax infections and five died from the exposure. The NYS OHCN assisted in developing training programs for postal workers. Thousands of workers were trained by the clinic staff.

Respirator Training of Long-term Care Facilities During the 2009 H1N1 Flu Pandemic
During the 2009 H1N1 influenza pandemic, the NYS DOH identified that the 639 long term care facilities in New York State needed training on respiratory protection issues. The clinic network was recruited to conduct needs assessments for those long term care facilities in their designated geographic regions and to provide any necessary training, medical assessments and fit testing associated with the appropriate use of respiratory protection and other personal protective equipment.

Recommendations
During its review, the Committee found some issues with the occupational health clinics that need to be addressed. Some of these are due to restraints on available funding; however, others could be overcome with administrative changes in the manner in which the clinics are managed.

Balance of services. In many of the clinics, a high proportion of the available clinical resources is being applied to the ongoing treatment of patients (particularly those with musculoskeletal problems). This reflects the low reimbursement rate from the WCB for medical services and the reluctance of other providers to provide these services. This makes referrals from the clinics to appropriate community providers after diagnosing work-related illnesses difficult. There also is a sense among some occupational health clinics that they provide better treatment for such patients than the patients might receive in the general community. This increase in the proportion of resources devoted to treatment has resulted in fewer resources being devoted to occupational disease diagnostic and preventive services and thus fewer new patients being seen by the clinics. The WCB has recently increased its reimbursement rates, though whether this will revive the interest of many physicians to provide treatment for occupational conditions is unclear. The NYS DOH should develop broad targets for the ratio of diagnostic treatment visits for the clinics and otherwise work with the WCB and the occupational health clinics to address this issue.

Limited preventive and educational services. The network is mandated to provide preventive services to help address occupational health problems in workplaces in their regions. Although the primary purpose of the occupational health clinics is to provide diagnostic services for occupational diseases, the clinics should also play a key role in other areas including prevention of occupational illnesses, education of health care providers, workers, and employers about occupational health, and research on occupational diseases and their prevention. These essential functions present enormous opportunities to amplify the impact of the NYS OHCN. However, provision of these services has been constrained by the lack of funding provided to the clinics. Concomitant with the increased funding, the Committee recommends an increased emphasis of the clinic network and the individual clinics on prevention and education including more coordination with the state and federal occupational health agencies.
Disparities in meeting needs and providing services. The Committee observed that there were significant differences in the clinical services and populations served by the different clinics. While some of this can be explained by regional differences, there are large differences even within similar regions. For example, two clinics focus much of their outreach and clinic services on firefighters while the other clinics see very few firefighters. A few clinics see mostly patients with musculoskeletal diseases while another clinic diagnoses and treats mostly patients with occupational pulmonary disease. These differences are also reflected in the outreach efforts by the different clinics. Services and outreach focused mainly on selected groups or illnesses limit the access of people from other industries or with other illnesses to the clinics. While some of these differences may be justified, the observed disparities support the notion that there are continued unmet needs and also limit the ability of the clinics to function as a network. Each clinic should use its needs assessments to determine if the clinic is providing necessary services to the identified high-risk populations.

Failure to meet basic objectives of the network. One of the clinics appears to only be providing general medical exams and has diagnosed very few occupational diseases in its regional population, which is likely to have the highest burden of occupational illnesses in the state based on the industries within their catchment area. Between 2005 and 2009, this clinic reported diagnosing only 14 patients with occupationally related illnesses. This clinic has also lacked an onsite fully trained director of occupational medicine. The current arrangement of oversight provided by a distant occupational medicine physician is not adequate. This situation has gone on for many years with little change on the part of the clinic. NYS DOH has met with the clinic and has identified specific steps the clinic needs to take. These will be included in the 2011-2012 contract to focus the clinic on taking immediate steps to address this problem. This process should be continued until the clinic refocuses its medical services and outreach to work-related illnesses.

G. Local, Regional, Occupation or Business Sector Specific Needs that May be Met by One or More Clinic

As mentioned above, New York’s economy is changing. In the past decade, New York State has lost more than 250,000 jobs in manufacturing (County Business Patterns, 2008). Major industries such as steel manufacturing and leather tanning, which used to be major sources of employment in some regions of the state have downsized or virtually disappeared. To a lesser extent, new industries such as semiconductor manufacturing, with their own health hazards are replacing the older industries. These employment changes are reflected in the profile of the patients being seen in the clinics with a lower proportion derived from industrial and construction occupations and more coming from the firefighting, health care and other public administrative and service industries over the last few years. Table 2 displays the industries of employment for the clinic network patients during the first and last five years.
Table 2. Industries of Employment of New York State Occupational Health Clinic Network Patients, 1988-1992 and 2006-2010

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>%</td>
<td>Total</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>Number</td>
<td></td>
<td>Number</td>
<td></td>
</tr>
<tr>
<td>Total Number of Patients</td>
<td>10,448</td>
<td>100.0%</td>
<td>20,127</td>
<td>100.0%</td>
</tr>
<tr>
<td>Agriculture</td>
<td>140</td>
<td>1.3%</td>
<td>427</td>
<td>2.1%</td>
</tr>
<tr>
<td>Mining</td>
<td>109</td>
<td>1.0%</td>
<td>48</td>
<td>0.2%</td>
</tr>
<tr>
<td>Construction</td>
<td>1,969</td>
<td>18.8%</td>
<td>2,098</td>
<td>10.3%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>1,747</td>
<td>16.7%</td>
<td>2,276</td>
<td>11.2%</td>
</tr>
<tr>
<td>Transportation</td>
<td>921</td>
<td>8.8%</td>
<td>1,699</td>
<td>8.4%</td>
</tr>
<tr>
<td>Wholesale</td>
<td>94</td>
<td>0.9%</td>
<td>272</td>
<td>1.3%</td>
</tr>
<tr>
<td>Retail</td>
<td>226</td>
<td>2.2%</td>
<td>670</td>
<td>3.3%</td>
</tr>
<tr>
<td>Finance, Insurance, Real Estate</td>
<td>292</td>
<td>2.8%</td>
<td>292</td>
<td>1.4%</td>
</tr>
<tr>
<td>Services</td>
<td>2,900</td>
<td>27.8%</td>
<td>5,670</td>
<td>28.0%</td>
</tr>
<tr>
<td>Public Administration</td>
<td>2,050</td>
<td>19.6%</td>
<td>6,502</td>
<td>32.1%</td>
</tr>
</tbody>
</table>

The occupational health clinics have also adjusted their outreach to address regional needs for services and to address major groups in the workforce needing services. For example, the clinic located in the mid-Hudson region has been assisting local fire departments with their required medical examinations. The Central New York Clinic has expanded its outreach in nearby areas. A major success of the NYS OHCN has been the development of the New York Center for Agricultural Medicine and Health in Cooperstown. In collaboration with other groups working on agricultural safety and health issues, this clinic has integrated clinical, research and education activities to develop outstanding occupational safety and health programs for agricultural workers throughout the state.

In recent years, occupational health disparities among groups based on race, ethnicity, and gender have received increasing attention (American Journal of Industrial Medicine, 2010). The population of New York is among the most diverse in the country and likely expresses similar disparity challenges that have been documented elsewhere. The NYS OHCN should make this a priority in the coming five years.

**Recommendations**

**Representativeness of advisory boards.** The clinic advisory boards should be representative of the local community with a mix of business, union, public health agencies and community groups represented. The composition of these boards should be periodically reviewed and there should be consideration of new members to reflect the needs identified within the community.

**Development of Return to Work programs.** It has been well established that those who return to work as soon as medically possible after occupational injuries (e.g., being offered a modified duty or redesigning the work station), often have a better chance of staying in the workforce over the long term. Employers with effective Return to Work Programs typically see lower workers’ compensation rates, higher morale, higher productivity and may be eligible to
apply for one of the Workplace Safety and Incentive Programs offered under NYS Department of Labor Industrial Code Rule 60. The NYS OHCN could offer employers an additional benefit by certifying their staff to conduct Return to Work evaluations as specified in Code Rule 60. By having the capability of developing effective return to work programs and establishing competency in this area, the clinics could likely increase the number of on-site assessments. With greater awareness of the NYS OHCN and their ability to provide these services, injured workers could be evaluated sooner than later increasing their chances of accurate diagnoses and assessments thereby improving their chances of successfully re-entering the workforce.

H. Other Issues as Determined by the Oversight Committee

Recommendations

Problems with support from the parent institution. One of the clinics has had problems due to having an antagonistic relationship with the medical school through which it receives funding. This has been an ongoing problem for many years and has resulted in many administrative problems. The advisory board for this clinic expressed serious concerns about these problems. The problems with lack of support from the medical school were evident to the Oversight Committee who heard from the clinic director, the advisory committee and the Chair of the Department of Preventive Medicine at the medical school. Despite strong letters of support from the medical school for the funding application, the medical school does not appear to be providing the level of support needed for the clinic to fully meet its mandate. NYS DOH has worked with the school to improve the situation. This work needs to continue to assure appropriate steps are taken to address this issue.

Improved management of clinic network. The Committee believes that the NYS DOH has done a very good job of developing and managing the NYS OHCN. The Committee is recommending some improvements including addressing problems at two of the clinics (outlined above). The Committee also recommends a more active management process. The current clinic contracts do not necessarily match the applications submitted by the clinics in response to the NYS DOH RFA (the applications usually requested more funding than was awarded and hence usually promised more services than can be supported through the actual contract award). The Committee recommends that NYS DOH implement a procedure where the annual contracts include requirements for specific services in the major areas of clinic activity (i.e., clinical services, outreach, etc.) that is realistic given the amount of funding awarded to each clinic. Although this will require more work on the part of the NYS DOH and clinic staff, it will provide better accountability.

I. Incorporation of Provisions to Implement Its Recommendations in Requests for Applications of State Funding for Occupational Health Clinics

The Oversight Committee plans to use the recommendations from this report to provide advice to the NYS DOH in the writing of the next Request for Applications (RFA). This activity will occur in 2011 with a planned release of the RFA to occur in 2012 for the next five year funding cycle in 2013.
REFERENCES


Appendix A. Partial List of Educational Materials Developed by the NYS Occupational Health Clinic Network

**Lectures:**
- Asbestosis - Master of Public Health
- Assessing Causation and Disability - Family Medicine Residency 3rd Year
- Beryllium, Welding and Hard Metal Disease - Master of Public Health
- Cardiovascular Occupational Disease - Master of Public Health
- Clinical Epidemiology and Preventive Medicine - Medical students
- Coal Workers Pneumoconiosis - Master of Public Health
- Cost Analysis/Legal Responsibility - Master of Public Health
- Environmental Detectives - Master of Public Health
- Environmental and Occupational Toxicology – Medical students
- Ergonomics and Industrial Hygiene - Master of Public Health
- Ergonomics Program Elements - Master of Public Health
- Hazard Identification and Interpreting Injury and Illness Data - Master of Public Health
- Hazard Identification/Lifting - Master of Public Health
- Heavy Metals - Master of Public Health
- History of Occupational Medicine and the Role of Labor - Master of Public Health
- Identifying Occupational Disease - Medical School
- Incident/Accident Investigation - Master of Public Health
- Introduction to Construction - Master of Public Health
- Introduction to Environmental and Occupational Health - Master of Public Health
- Introduction to Occupational Medicine – Toxicology class lecture
- Introduction to Occupational Pulmonary Diseases - Master of Public Health
- Low Back Pain Outcomes After Pain Management Referral - Grand Rounds
- Making a Case for Safety - Master of Public Health
- Medico Legal Aspects of Asbestos and Pulmonary Occupational Disease – Master of Public Health
- Migrant and Seasonal Farmworkers – Anthropology class lecture
- Nuts and Bolts of Workers’ Compensation - Grand Rounds
- Occupational and Environmental Lung Disease - Master of Public Health
- Occupational Gastrointestinal Disease - Master of Public Health
- Occupational Hematology - Master of Public Health
- Occupational Infectious Disease - Master of Public Health
- Occupational Kidney Disease - Master of Public Health
- Public Health Response to Disaster: WTC Medical Program – Master of Public Health
- Qualitative Epidemiology as a tool in Occupational Epidemiology – Master of Public Health
- Respiratory Hazards in Agriculture – Animal Science Class
- Safety History and Scope of Current Problem - Master of Public Health
- Safety in Various Trades - Master of Public Health
- Silicosis - Master of Public Health
- Solvents - Master of Public Health
- Stress in the Workplace - Grand Rounds
- Supporting the Safety Process: Labor Unions/Management Committees - Master of Public Health
- Taking an Occupational History - Master of Public Health
- Work-Related Musculoskeletal Disorders - Master of Public Health
- Workers’ Compensation Reform: Implications for Physicians - Grand Rounds

A1
Presentations:
30 Year Old Mason with Dyspnea
A Case of Parkinson’s Disease
Acute, Subacute and Chronic Effects of Smoke Inhalation
Advocating for Injured Workers in Workers’ Compensation
The Aging Workforce and Chemical Exposures
Agricultural Hazards Awareness Training for Firefighter and EMS Personnel
Agricultural Safety Hazard Awareness
Anhydrous Ammonia Safety
The ANSI Standard on Use of Respiratory Protective Equipment
Asbestos Abatement Training
ATV Safety
Asbestos Awareness Training
Asbestos, Silica and Lead
Avian Influenza
Back Injury Prevention
Barriers to Occupational Health for Low Wage Workers
Basic First Aid
Bloodborne Pathogens
BP Oil Spill: Potential Health Hazards for Workers and Volunteers Involved in the Clean Up Effort
Cardiovascular Disease
Careers in Occupational Medicine
Cattle Treatment Safety
Chainsaw Safety
Characteristics of Work-related Asthma Patients Seen by the Occupational Health Clinical Center
Clinical Guidelines for Adults Exposed to the World Trade Center Disaster
Cold Weather Safety
Computer Vision Syndrome
Confined Spaces in Agriculture
CPR/AED for Adults, Children, and Infants
Dealing with Pre-ROPS Tractors: Exploring the Viability of a Tractor Trade-in Program
Diesel Exhaust Exposure for Operating Engineers
Demystifying Indoor Environmental Quality
Electronic Medical Records Suited for Occupational and Environmental Health
Environmental and Physical Hazards in Agriculture
The Experience of Occupational Injury
Exposure Assessment Methods
Fatigue at Work
Food Borne Pathogens in the Dairy Industry
Forklift Safety
Framing the Future in Light of the Past: Living in a Chemical World
Fungus and Bioaerosols Training
Good Nutrition
Green Cleaning Products
H1N1 Swine Flu Prevention
Hay and Forage Equipment Safety
Hazard Communication
Hazard Communication Standard for Dairy Farms
Hazards in the Restaurant Industry
HazMat Toxicology and Industrial Hygiene
The Health Effects of Asbestos
Presentations (Continued):
The Health Effects of Lead
Health Effects of Solvent Exposure
Health Hazards for Farmworkers
Health Hazards from Incomplete Decontamination and Not Using Respiratory Protection
Health Hazards in Hospitals
Heat and Cold Stress
Heat-Related Illness
How Important are My Medicines?
Hydrogen Cyanide
Hypertension and the Firefighter
Impairment Assessments and AMA Guides
Impairment and Disability Assessment
Indoor Environmental Quality: Prevention, Response and Remediation
Industrial Hygiene in the Workplace
Industrial Hygiene Training for NYC Transit Workers
Is Your Boss Treating You Like a Slave?
Know Your Health and Safety Rights
Ladder Safety
Lead Awareness
Lower Back Pain Prevention & Safe Lifting
Marking and Lighting of Agricultural Machinery
Measuring Toxins in the Workplace
Mechanical Hazards in Agricultural Machinery
Medical Management of Blood Borne Pathogens
Medical Surveillance for Lead Exposure
Medical Surveillance for Operating Engineers
More Than Meets the Eye: Aspects of the Impact of an Occupational Illness on Injured Workers
MRSA
Musculoskeletal Disease in Women Carpenters
Musculoskeletal Injury Prevention of Low Back Pain
Noise Induced Hearing Loss
Noise Measurement and Engineering and Administrative Controls
Occupational Asthma
Occupational Disease and Medical Surveillance
Occupational Disease Determining Causation: Case Studies
Occupational Lung Disease
Occupational Medicine for the Internist
Office Ergonomics
On-Farm Safety Surveys
Orchard Ladder Safety
OSHA’s Guidelines for Nursing Homes
The OSHA Lead Standard
Packinghouse and Processing Line Safety for Vegetable Farms and Orchards
Pandemic Awareness: A business perspective
Patient Care Ergonomics for Health Care Workers
PCB’s and the Operator
Performing Arts Music: Ergonomics and Musculoskeletal Disorders
Personal Hygiene for Migrant Farmworkers
Personal Protective Equipment for Farmworkers
Pesticide Applicators: Cornell Cooperative Extension
Presentations (Continued):
Pesticides and Parkinson's Disease
Preparing Yourself for Surgery
Preventing Back Injury in the Fire Service
Preventing Tuberculosis in the Fire Service
Prevention of Line of Duty Cardiac Deaths in the Fire Service
Promoting Awareness, Identification and Prevention of Work-related Symptoms in a Mobile Migrant Workers' Clinic in Central New York
Promoting Health and Safety through Ergonomic Design
Recognizing Occupational Disease
Reducing Take Home Pesticide Exposures
Respiratory Disease in Agriculture
Respiratory Protection in Construction
Respiratory Protection Plan for Long-term Care Facilities on Long Island
Rochester Automobile Dealers Association Safe*T Program
Safe Handling of Dairy Cattle
Safe Lifting and Carrying
Safe Operation of Agricultural Machinery on Public Roadways
Safe Operation of Farm Trucks on Public Roadways
Safe Patient Handling
Safe Use of Agricultural Tractors in Woodlots
Sarcoidosis
Screening Exams in Occupational Medicine
Selecting and Using PPE for Pesticide Applications
Sharps Safety for Healthcare Workers
The Silica Toolbox Talks, Tools to Help You Prevent Overexposure to Silica
Skidsteer Safety
Slips, Trips, and Falls
Slogging Through and Opting Out: Workers' Compensation in New York State
Social Marketing of Tractor Rollbars
Socioeconomic Disparities, Extended Work Hours and Musculoskeletal Disorders among Health Care Workers
Strategies for a Safe School
Stress Management
Stress Reduction and Meditation
Superpave – Safe Work Practices
TB Awareness
Topics in Workplace Safety and Health
Tower Climbers Health and Safety Issues: New York Perspectives on 'The Most Dangerous Job in America'
Tractor and Power-Take-Off Safety
Train the Trainer - Respirator Use and Fit Testing
Using Occupational Health Clinical Resources
Worker Protection Standard – Worker
Worker Protection Standard - Handler
Workers’ Compensation in New York State
Workers’ Compensation Issues
Workers’ Compensation Reform 2007
Workers’ Compensation Update and the New York State Medical Treatment Guidelines 2010
Workplace Education
Workplace Violence
Presentations (Continued):
Workplace Walkaround Safety and Health Inspections
Work-Related Musculoskeletal Disorders, Ergonomics, and Safe Lifting Techniques
Worksite Wellness

Flyers/Brochures:
Clinic Specific Brochures
A Guide for Healthy Work: Office Ergonomics
Air Quality
Allergies
Animal Handling (English & Spanish)
Ankle Sprains
Bunker Silo Safety
Carpal Tunnel Syndrome (English & Chinese)
Children's Farm Safety Workshops
Cholesterol
Clinician's Guide to Irritative and Respiratory Problems in Relation to Environmental Exposures from the World Trade Center Disaster
Cold Weather (English & Spanish)
Construction Hazards: Dust
Construction Hazards: Other Chemicals
Construction Hazards: Solvents
Depression Flyer
Diabetes & Your Glucose Level
Disposable Dust Masks
Disposable Dust Masks - tip sheet
Dust Masks (English & Spanish)
EAP Program (Health Workers)
Ergonomics Exposures, Problems, and Solutions
Ergonomic Tips for Computer Users
Eye Safety - tip sheet
Farm Emergency Response Program
Farmer's Occupational Health Clinic
Farmstead Safety
Fire Safety / Extinguishers (English & Spanish)
Footwear Safety (English & Spanish)
Gastroesophageal Reflux Disease
Guides for Managing Lead Control Programs in Construction (workbook and factsheets)
Guides for Managing Crystalline Silica Control Programs in Construction (workbook and factsheets)
H1N1 (Swine Flu) Safety (English & Spanish)
Health Issues Fact Sheet
Healthy Exercise
Healthy Workplace for Employers & Businesses
Healthy Workplace for Workers, Retirees, & Residents
Hearing (English & Spanish)
Hearing Loss
Hearing Loss in Farmers
Hearing Protection (English & Spanish)
Heat and Sun Safety (English, Spanish & Creole)
Hypertension
Indoor Air Quality: Facts about Mold and Dampness
Flyers/Brochures (Continued):
Insomnia
Ladder Safety (English & Spanish)
Lead in the Workplace
Lead (Chinese)
Low Back Pain and Lumbar Stabilization Exercises
Lower Back Pain
Lyme Disease (English & Spanish)
Manganese Information for Pipefitters
Manganese Information for Welders
MDF Safety for Carpenters
Mechanical Hazards (English & Spanish)
Mercy (Chinese)
MRSA Facts for Hospital Workers
Needle Sticks (English & Spanish)
Noise and Hearing Loss
Office Ergonomics: A Survival Guide
On Farm Safety Program
Patellofemoral Pain Syndrome
Peak Flow Monitoring
Personal Hygiene (English & Spanish)
Personal Protective Equipment (English & Spanish)
Poison Ivy (English, Spanish & Creole)
Processing Line (English & Spanish)
Promoting Healthy Work through Occupational Ergonomics
Protecting Your Back
PTO Safety
Respiratory Hazards
Respiratory Hazards - tip sheet
Safe Lifting & Carrying (English, Spanish & Creole)
Safe Tractor Operating (English & Spanish)
Safe Tractor Starting (English & Spanish)
Safety Glasses (English & Spanish)
Sharing the Road
Sharp Tool Safety (English & Spanish)
Silo Filler's Disease
Silo Fillers - tip sheet
Skid Steer Loaders
SMV Marking & Lighting
Stress Reduction & Your Breath
Survival Guide for Choosing an Adjustable and Padded Office Chair
Tractor Safety
Tractor Safety Lifesavers (English & Spanish)
Upright Silo Safety
Using PPE
West Nile Virus (English & Spanish)
Whole Body and Segmental Vibration for WTC Laborers
Work Safely with Spray-on Fireproofing
Workers' Compensation: Benefits for WTC Rescue, Recovery, and Clean-up Workers
Worker Health & Safety Rights
You're Somebody at Work
Newsletter Articles
Asbestosis
Burned, High Risks and Low Benefits for Workers in the New York City Restaurant Industry
Cancer Clusters
Chemicals in the Workplace
Ergonomics Information for All
LIOEHC Helps Long Island’s Fishermen Safely Navigate Dangerous Waters
New Long Island Occupational & Environmental Health Center Program to Offer Free Health Exams For LI Migrant Agricultural Workers
Occupational Asthma
Occupational Disease
Organic Solvent Toxicity
Problems with the Indoor Air Environment at Workplaces
Social Work
Toxic Mold
Trends in the Occupational Medicine Profession and Services: What the Long Island Occupational & Environmental Health Center (LIOEHC) Can Offer
What is an Occupational Medicine Doctor?
Appendix B. Peer Reviewed Literature Published By The New York State Occupational Health Clinic Network, 2004-2011


Cocchiarella L. Disability assessment and determination in the United States, Part I: In: UpToDate, Sokol HN MD (Ed) UpToDate, Waltham Ma. 2010, pending
Cocchiarella L. Disability assessment and determination in the United States, Part II: In: UpToDate, Sokol HN, MD (Ed). UpToDate, Waltham Ma. 2010, pending


Herbert R. A mental health program for ground zero rescue and recovery workers: cases and observations. *Psychiatr Serv*, 2006; 57:1335-1338.


