Quality Control in management of chronic respiratory diseases

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Why do we need Quality Control for chronic respiratory diseases?

- High mortality and big economic burden of Chronic respiratory diseases
- More powerful and authoritative organizations are needed to force the physicians to follow the guidelines
High mortality and big economic burden of Chronic respiratory diseases

- Chronic respiratory diseases (CRD) are associated with a high mortality and it is also a big economic burden of health care in China due to the high prevalence of COPD, asthma, and chronic respiratory failure.
- The population in Shanghai is over twenty million, of which around one million people have CRD.
- Thus, it is important to organize and encourage respiratory physicians working hardly on CRD.
The guidelines were not followed

- The diagnosis and treatment were not restrictively conducted under the guidelines.
- For example, 95% asthma patients were not treated following the guidelines.
- Little effort put on prevention.
- Physicians always forget their roles in preventive medicine.
How to solve the problems

• The GOLD and GINA guidelines have been modified by Chinese Medical Association
• Numerous training courses have been opened for respiratory physicians
• however some physicians still didn’t follow the guidelines after training
• More powerful and authoritative organizations are needed to force the physicians to follow the guidelines
• One of the solutions is to set up Quality Control Centre for Respiratory Diseases (QCCRD) with the unique function of inspection
Quality control and its Goal:

Quality Control Center for Respiratory Diseases (QCCRD) was launched in Shanghai on March 23, 2004 after SARS. QCCRD has the power to inspect 58 departments of Respiratory Medicine in Shanghai.
Quality control Goal:

• To prevent or reduce respiratory dysfunction from all kinds respiratory diseases
• To reduce the mortality of chronic respiratory diseases
• To improve the life quality of patients with respiratory dysfunction
• To reduce the cost of health care
Organization of QCCRD

QCCRD Shanghai

- Steering Committee
- Education Committee
- Inspection Committee
Strategies for management of CRD

- Emphasis of quality control for management of chronic respiratory diseases
  1. Modifying practice guidelines based on GOLD and GINA
  2. Opening training course for the respiratory physicians of the 58 hospitals
  3. Inspecting the respiratory physicians whether they work on CRD under the guidelines
  4. Educating the respiratory physicians how to prevent CRD through ZARD and media
Outcomes from QCCRD

- Modifying practical guidelines based on GOLD and GINA
- Opening training course for the respiratory physicians of the 58 hospitals.
- Inspecting the respiratory physicians whether they practice under the guidelines
- Encourage and educate the respiratory physicians how to prevent CRD
Opening training course for the respiratory physicians of the 58 hospitals

- To train doctors how to follow guidelines for CRD, Shanghai QCCRD opened three training courses for 360 respiratory physicians
- To make special emphasis on the clinical quality control and assessment of CRD
- QCCRD also organized a series of seminars, workshops, conferences to improve the current situations of CRD diagnosis and treatment
Main Work In 2005

• QCCRD had supervised the quality of facilities and human resources for all the Departments of Respiratory Medicine in Shanghai.
• QCCRD had developed simple guidelines for COPD according to GOLD guidelines.
Main Work In 2006

- QCCRD supervised the practice of COPD, pulmonary function test, nebulizing therapy, mechanical ventilation and antibiotic therapy according to the guidelines.
4th ISRD in 2007 attracted 1500 participants
Exchange experiences between the speakers and the participants!
Here we exchange ideas freely!

Here we talk about the frontier of respiratory research and clinical practice.
Dr. Nikolai Khaltaev talked about GARD
Publications in the newspapers, magazines, and journals, TV, radio and internet interviews
WWW.DXY.CV
working on site for 4th ISRD

传播普及医学知识
吸烟有害健康，建议国民掀起戒烟高潮，有力国家、有力子孙，有利环境。减少主动吸烟和被动吸烟。

昨天我参加大会了这次大会十分成功感谢白教授!

确实要向白教授学习

其中一位专家是负责我那篇外投论文的编辑，目前论文状态还是in review好想和他当面交流一下啊！

白教授，好敬业的

这样的盛会不能参加 遗憾

遗憾前年准备去严教授实验室做博士后研究的结果连续两次签证被拒。

以前只是关注糖尿病患者易并发肺部感染性疾病，现在看了获益较多，谢
24 hours Medical TV
working on site for 4th ISRD

———让没有参会的专家学者有身临其境感
2007 ISRD 圆满成功
Modifying practical guidelines based on GOLD and GINA

- Compiled a handbook “Respiratory outline and quality control requirement” published by people’s health publisher in April 2008
Inspecting the respiratory physicians whether they practice under the guidelines

The Steering Committee has developed and finalized the approaches for prevention, diagnosis and treatment of CRD, and set up points by:

- Evaluating current states of CRD diagnosis, prevention and treatment
- Evaluating drug coverage of CRD at long terms
- Evaluating life quality of patients
- Recording and calculating the hospitalization rate
- Counting the rates of complications and exacerbations
Set up scoring criteria

• Regularly Steering Committee is responsible for supervision scoring points and considering related guidelines

• Get approval from the joint meeting by Regularly Steering Committee & Advisory Committee
## Examination for stage of COPD

<table>
<thead>
<tr>
<th>Grades</th>
<th>Answered Doctors</th>
<th>Right answer rate(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage I</td>
<td>281</td>
<td>80.6%</td>
</tr>
<tr>
<td>Stage II</td>
<td>281</td>
<td>80.0%</td>
</tr>
<tr>
<td>Stage III</td>
<td>281</td>
<td>77.2%</td>
</tr>
<tr>
<td>Stage IV</td>
<td>281</td>
<td>45.5%</td>
</tr>
</tbody>
</table>
Rehearsal of Supervising Committee

• 42 censors of Supervising Committee were trained before inspection according the scoring points

• In order to standardize the scoring points and guarantee the justness, QCCRD supervised 2 hospitals in advance as rehearsal
### Example of the first supervision

<table>
<thead>
<tr>
<th>Hospital classification</th>
<th>Excellent Points &gt; 90</th>
<th>Fine points &gt; 80</th>
<th>Middling points &gt; 70</th>
<th>Passed points &gt; 60</th>
<th>under qualified points &lt;60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class III</td>
<td>9</td>
<td>10</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Class IIA</td>
<td>4</td>
<td>21</td>
<td>10</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>13 (22.4%)</td>
<td>31 (53.4%)</td>
<td>11 (19.0%)</td>
<td>1 (1.7%)</td>
<td>2 (3.4%)</td>
</tr>
</tbody>
</table>
Feedback of the results

- The censors pointed out the problems on site and fed back the results after inspection

- QCCRD sent the supervision proposal in document to those hospitals with severe problems based on the inspection
Recheck

- Recheck the scored points for all hospitals after half year
- The four worst scored hospitals made some progress
Encourage and educate the respiratory physicians how to prevent CRD

- Publications in the newspapers, magazines, and journals
- TV, radio and internet interviews
- Publications in scientific journals
- Teaching and training seminars and workshops
- National and international conferences and symposiums
Congratulations letter from Dr. Nikolai Khaltaev

Dear Professor Bai,

I would like to congratulate you for the launch of Zhongshan Alliance Against Respiratory Diseases (ZARD) in Shanghai. I am certainly proud and happy, because you are one of our advisors for WHO/CHINA. I am also honored to be one of the advisors for your Alliance in Shanghai.

Sincerely yours,

Dr. Nikolai Khaltaev, MD, PhD
WHO-China, Respiratory Diseases and Epidemiology
Geneva, Switzerland

WHO-CHINA

Congratulation letter from
Dr. Nikolai Khaltaev
Encourage and educate the respiratory physicians how to prevent CRD

Advocacy of tobacco control to respiratory physician in Shanghai
Advocacy of tobacco control at Annual Respiratory Conference of Shanghai 2008
Standardization of tobacco cessation services in Shanghai

- Leaflets for smoking cessation
- Training courses for part-time or fulltime smoking quit professionals
- More cessation clinics in Shanghai
- Standards and regular inspection by Clinical Quality Control Center
5th International Symposium on Respiratory Diseases
November 7-9, 2007, Shanghai, China

Thank you!
Welcome to ISRD!

Official Organizers
Shanghai Leading Academic Discipline, Key Department of Pulmonary Medicine
Zhongshan Hospital, Fudan University

Shanghai Medical Association

Journal of Organ Dysfunction
Taylor & Francis Group, UK