



|   |                    |                               |               |  |             |            |           |            | Searc         | in Porta    | 11  |                   |   |    |  |
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|   | s record show      | vs only 22 elemen             | nts of the WH | 10 Tn  | ial Registi | ration Dat | a Set. To | view c     | hanges that h | ave been ma | ade t                                       | to the source red | ecord, or for additional information about this trial, click on the URL below to go to th | ne |  |
|   |                    | imary register.               | ChiC          | ChiCTR   |             |            |           |            |               |             |   |                   |   |    |  |
| Register:<br>Last refreshed on:   |                    |                               |               | 18 April 2017  |             |            |           |            |               |             |   |                   |   |    |  |
| Main ID:  |                    |                               |               | ChiCTR-OOC-16008263  |             |            |           |            |               |             |   |                   |   |    |  |
| Date of registration:   |                    |                               |               | 2016-04-11   |             |            |           |            |               |             |   |                   |   |    |  |
| -   |                    |                               |               | Yes  |             |            |           |            |               |             |   |                   |   |    |  |
| Prospective Registration:<br>Primary sponsor:   |                    |                               |               | General Hospital of Tianjin Medical University   |             |            |           |            |               |             |   |                   |   |    |  |
| Public title:   |                    |                               |               |  |             |            |           |            |               | anitive dvs | sfun  | ction (POCD)      | ) in elderly patients in Department of orthopedics  |    |  |
| Scientific title:   |                    |                               |               | Effect of hydrogen inhalation on postoperative cognitive dysfunction (POCD) in elderly patients in Department of orthopedics |             |            |           |            |               |             |   |                   |   |    |  |
| Date of first enrolment:  |                    |                               | 2016          | 2016-03-16   |             |            |           |            |               |             |   |                   |   |    |  |
| Target sample size:   |                    |                               | N/P/A         | N/P/A:60;  |             |            |           |            |               |             |   |                   |   |    |  |
| Recruitment status:   |                    |                               | Recru         | Recruiting   |             |            |           |            |               |             |   |                   |   |    |  |
| URL:  |                    |                               | http://       | http://www.chictr.org.cn/showproj.aspx?proj=12727  |             |            |           |            |               |             |   |                   |   |    |  |
| Study type:   |                    |                               |               | Observational study  |             |            |           |            |               |             |   |                   |   |    |  |
| Study design:   |                    |                               |               | Case series  |             |            |           |            |               |             |   |                   |   |    |  |
| Phase:  |                    |                               | Other         | Other  |             |            |           |            |               |             |   |                   |   |    |  |
| Countries of recruitment  |                    |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
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| Affiliatio  | al of Tianji       | of Tianjin Medical University |               |  |             |            |           | Affiliatio | n:            | Gene        | eral Hospital of Tianjin Medical University |                   |   |    |  |
| Key inclusion & exclusion criteria  |                    |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| Inclusion criteria: 1. patients older than 75 years;<br>2. ASA I-III grade;<br>3. The patients were to be operated in the department of orthopedics under the anesthesia of lumbar anesthesia or epidural anesthesia or nerve block;<br>4. operation time was more one hours;<br>5. Patients have fully understood the nature of the study, voluntarily participated in this trial and signed the informed consent form.<br>Exclusion criteria: 1. There are now or once patients with central nervous system diseases;<br>2. once accepted department of neurosurgery surgery;<br>3. patients with active liver disease;<br>4. patients taking sedative drugs or antidepressants during the study period;<br>5. suffering form severe visual or hearing impairment or inability to understand mandarin;<br>6. the same neuropsychological scales have been exposed;<br>7. already had COPD before surgery;<br>8. poor compliance or fail to complete the test according to the research plan;<br>9. clinical trials of other drugs in the past 4 weeks;<br>10. for any reason, the researchers think there is any situation that is not suitable for the selected.<br>Age minimum:<br>Age maximum:<br>Age maximum: |                    |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| Gender:<br>Health C   |                    | s) or Problem                 | (s) studie    | d  |             |            |           |            |               |             |   |                   |   |    |  |
|   |                    | itive dysfunctio              | . ,           |  |             |            |           |            |               |             |   |                   |   |    |  |
| Intervention(s)   |                    |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| N/P/A:hy  | /drogen inh        | nalation;                     |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| Primary   | Outcome            | (s)                           |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| MMSE;SOD;IL-6;  |                    |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
|   | ary Outco          | me(s)                         |               |  |             |            |           |            |               |             |   |                   |   |    |  |
|   | ary ID(s)          |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
|   |                    | etary Support                 |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| General Hospital of Tianjin Medical University<br>Secondary Sponsor(s)  |                    |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
|   |                    | or(S)                         |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| Ethics re   | evieW              |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| Results   | avellet t          |                               |               |  |             |            |           |            |               |             |   |                   |   |    |  |
| Results<br>Date Po  | available<br>sted: | :                             |               |  |             |            |           |            |               |             |   |                   |   |    |  |

Date Posted: Date Completed: URL:

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