Retrospective Comparison of Clinical Effects of Discogel® Radiopaque Gelified Ethanol Application in Chronic Pain Related to Cervical Disc Hernia

INTRODUCTION

Cervical disc hernia is a pathological condition which usually causes pain on the neck, shoulders and arms, while radiculopathy and myelopathy caused by compression of spinal cord are rare. In this study, we aimed to retrospectively investigate the clinical effects of Discogel® Radiopaque Gelified Ethanol application in the patients with cervical disc hernia who had chronic pain and weakness on the neck, shoulders and arms.

MATERIAL-METHOD

Between the years 2013 and 2014, 18 patients with chronic pain related to cervical disc hernia who were admitted to Sakarya University Education and Training Hospital were enrolled in the study. Data of age, gender, visual analogue scale (VAS) score before procedure, VAS in the 1st and 3rd months after procedure, Oswestry Disability Index (ODI) score and scores of Neuropathic Pain Questionnaire (DN-4) were retrospectively analyzed. VAS and ODI scores obtained before procedure and also in the 1st and 3rd months after procedure were retrospectively evaluated and SPSS IBM 20 programme was used in statistical analysis. Adverse effects were recorded after procedure.

RESULTS

The average age of the patients was 48.17 ± 10.23. In the comparison of preoperative, postoperative 1st and 3rd months VAS values, the decrease in both postoperative values was accepted as significant (p<0.05, Table 1). Although a decrease between 1st and 3rd month postoperative VAS values was detected, this was not statistically significant (p>0.05, Table 1). In the comparison of postoperative 1st month, postoperative 3rd month and preoperative ODI values, ODI scores were found to be improved (p<0.05, Table 1). Similarly, change in DN-4 values was correlated with VAS and ODI scores (p<0.05, Table 1). After operation, 50% of the patients had sore throat, 44% had dysphagia, 27% had neck stiffness and transient increase in pain.

<table>
<thead>
<tr>
<th></th>
<th>PREOPERATIVE</th>
<th>POSTOPERATIVE 1 MONTH</th>
<th>POSTOPERATIVE 3 MONTH</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAS</td>
<td>7.61</td>
<td>4.67</td>
<td>4.39</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>ODI</td>
<td>52.72</td>
<td>36.89</td>
<td>33.5</td>
<td>&lt;0.05</td>
</tr>
<tr>
<td>DN-4</td>
<td>2.94</td>
<td>1.5</td>
<td>1.52</td>
<td>&lt;0.05</td>
</tr>
</tbody>
</table>

Table 1. The change in VAS, ODI and DN-4 scores with regard to time in the patients who had cervical discogel application. p<0.05, significance of the postoperative 1st and 3rd month values when compared with preoperative values.

Conclusion

Cervical discogel application involves the injection of gelified ethanol (alcohol) into bulging part of the herniating intervertebral disc. Gel contains alcohol which does not go out of the disc and alcohol causes hernia to dry. By this way, it decreases the compression on spinal cord and nerve roots. We think that Discogel® Radiopaque Gelified Ethanol application is a technique which decreases pain scores, the degree of neuropathic pain and functional status of the patients who have the symptoms of chronic pain and weakness on the neck, shoulders and arms.
Dear Dr. Ali Metin Ulgen,
Sakarya University education and research Hospital
Turkey

OMICS Group cordially invites you to attend the International Conference and Exhibition on Pain Medicine during June 08-10, 2015 at Chicago, USA.

We welcome you to join us and share your knowledge and views on the theme “Pain: Approaches to Predict, Control and Relieve”. On behalf of the Organizing Committee, we are pleased to welcome you for the upcoming international event. We are hereby informing you that E-Poster “Retrospective Comparison of Clinical Effect of Discogel Radiopaque Gelified Ethanol Application in Chronic Pain Related to Cervical Disc Hernia” “Efficacy of Epiduroscopy administration in patients with failed back surgery Syndrome” “Glissopharyngeal Nerve Neurolysis with alcohol: A case Report” has been accepted for the upcoming prestigious Pain Medicine-2015 conference.

The International Conference and Exhibition on Pain Medicine initiated by Editors- Pain &Relief will offer you an unforgettable experience in exploring new opportunities.

We look forward to seeing you in Chicago. For more details about Pain Medicine-2015, PS: http://painmedicine.conferenceseries.com/

With Thanks,

Dr. Sudhakar Akul Yakkanti, Scientific Committee Operator
Pain Medicine- 2015 Organizing Committee
Pharma Conferences
5716 Corsa Ave., Suite 110
Westlake, Los Angeles
CA 91362-7354, USA
Ph: +1-650-268-9744
Fax: +1-650-618-1414
Toll Free: +1-800-216-6499

Organizing Committee Members – Pain Medicine-2015

Mark Versavel
vZenium LLC , USA

Matt McCarty
CEO, Genotox Laboratories, USA

George Grant
World Organization of Natural Medicine, Canada

Enrique Latorre Marques
Director, Spain

Feng Tao
Texas A&M University Baylor College of Dentistry
USA