

Accepted Manuscript

Title: Massive lumbar pneumorrhachis after severe cranial trauma

Author: Ihsan Yuce, Abdusselam Akbulut, Fatih Ergun, Recep Sade, Mecit Kantarci

PII: S1529-9430(15)01214-0

DOI: <http://dx.doi.org/doi: 10.1016/j.spinee.2015.08.004>

Reference: SPINEE 56510



To appear in: *The Spine Journal*

Please cite this article as: Ihsan Yuce, Abdusselam Akbulut, Fatih Ergun, Recep Sade, Mecit Kantarci, Massive lumbar pneumorrhachis after severe cranial trauma, *The Spine Journal* (2015), <http://dx.doi.org/doi: 10.1016/j.spinee.2015.08.004>.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1

2

3 **Massive lumbar pneumorrhachis after severe cranial trauma**

4

5 Ihsan Yuce¹ (MD), Abdusselam Akbulut¹ (MD), Fatih Ergun¹ (MD), Recep Sade
6 (MD)¹, Mecit Kantarci¹ (Prof.Dr)7 ¹Ataturk University, School of Medicine, Department of Radiology, Erzurum, Turkey

8

9

10

11

12

13

14

15

16

17 **Corresponding author** : Ihsan Yuce M.D.18 **Address** : Ataturk University School of Medicine, Department of
19 Radiology, Erzurum, Turkey20 **Telephone** : +90 507 036 6910 (GSM)

21 : +90 442 2361212-6960 (work)

22 **Fax** : +90 (442) 236130123 **E-mail** : drihsany@gmail.com

24 A 25-year-old man was referred to our Emergency Department with motor vehicle
25 accident. His mental state was confused. There was no traumatic wound of the spinal
26 column. Computed tomography (CT) was performed. CT images show massive
27 lumbar pneumorrhachis and pneumocephalus (**Figure 1**). In our case, air in the
28 cranium probably spreaded along the subarachnoid space, thus eventually it
29 appeared in the spinal canal. Pneumorrhachis is typically benign condition and
30 resolves with conservative therapies. However, pneumorrhachis can cause
31 symptoms of cord compression. Therefore, early diagnosis and follow-up is important
32 (1).

33 **References**

34 1. Yuce I, Sade R, Karaca L, Ogul H, Kantarci M. Thoracolumbar pneumorrhachis
35 after nonspinal gunshot wound. Spine J. 2015 Jul 1;15(7):1702. doi:
36 10.1016/j.spinee.2015.03.032. Epub 2015 Mar 25.

37 **Figure Legends**

38 **Figure 1:** Sagittal CT image (left) shows massive lumbar pneumorrhachis and axial
39 CT image (right) shows pneumocephalus.