

external link (opens in a new window)

Search Sources Analytics Alerts My list Settings Live Chat Help Tutorials

## Quick Search

Search

Back to results | &lt; Previous 53 of 186 Next &gt;

[Link to Full Text](#) | [View at publisher](#) | [Download](#) | [Export](#) | [Print](#) | [E-mail](#) | [Create bibliography](#) | [Add to My List](#)

Pakistan Journal of Medical Sciences

Volume 23, Issue 6, October 2007, Pages 862-866

## The effect of hoemodialysis on pulmonary function tests and respiratory symptoms in patients with chronic renal failure

Hekmat, R.<sup>a</sup>, Boskabady, M.H.<sup>b</sup>, Khajavi, A.<sup>b</sup>, Nazary, A.<sup>b</sup><sup>a</sup> Dept. of Internal Medicine, Ghaem Medical Centre, Mashhad University of Medical Sciences, Mashhad, Iran<sup>b</sup> Department of Physiology, Ghaem Medical Centre, Mashhad University of Medical Sciences, Mashhad, Iran

## Abstract

[View references \(14\)](#)

Objective: In the present study the effect of hemodialysis on pulmonary function tests (PFT) and respiratory symptoms of CRF (Chronic Renal Failure) patients was studied. Methodology: Respiratory symptoms of 18 CRF patients were recorded using a questionnaire, before, in the middle and the end of dialysis. PFT values of patients were also measured in three phases. In addition, baseline PFT values and respiratory symptoms of CRF patients (PFT values and respiratory symptoms before dialysis) were compared with the data of a matched control group of normal subjects (n=18). Results: Most respiratory symptoms in CRF patients (cough, sputum and breathless) were significantly more prevalent, than control group ( $p < 0.005$  to  $p < 0.001$ ). The values of forced vital capacity (FVC), forced expiratory volume in one second ( $FEV_1$ ), peak expiratory flow (PEF), maximal mid expiratory flow (MMEF) and maximal expiratory flow at 75%, 50%, and 25% of the FVC ( $MEF_{75}$ ,  $MEF_{50}$ , and  $MEF_{25}$  respectively) in CRF patients were also significantly lower than control group ( $p < 0.001$  for all cases). Most respiratory symptoms of CRF patients at the middle and the end of dialysis were significantly lower than the beginning of dialysis. ( $p < 0.05$  to  $P < 0.001$ ). In addition, some respiratory symptoms were also significantly improved at the end compared to the middle of dialysis ( $p < 0.05$  for all cases). However, the dialysis did no effect PFT values in CRF patients. Conclusion: The results of this study showed that dialysis in CRF patients can improve the respiratory symptoms but has no effect on PFT values.

## Reaxys Database Information

|

## Author keywords

Chronic renal failure; Hemodialysis; Pulmonary function tests; Respiratory symptoms

## Indexed Keywords

EMTREE medical terms: adult; article; chronic kidney failure; clinical article; controlled study; coughing; dyspnea; female; forced expiratory volume; hemodialysis; hemodialysis patient; human; lung function test; male; peak expiratory flow; prevalence; questionnaire; respiratory tract disease; sputum; symptom

ISSN: 1682024X CODEN: PJMSC Source Type: Journal Original language: English

Document Type: Article

## References (14)

[View in table layout](#)
[Page](#) | [Export](#) | [Print](#) | [E-mail](#) | [Create bibliography](#)

[Kohen, J.A., Opsahi, J.A., Kjellstrand, C.M.](#)

1 [Deceptive patterns of uremic pulmonary edema](#)  
(1986) American Journal of Kidney Diseases, 7 (6), pp. 456-460. Cited 5 times.

[Link to Full Text](#)

[Zidulka, A., Despas, P.J., Milic Emili, J., Anthonisen, N.R.](#)

2

## Cited by since 1996

This article has been cited 0 times in Scopus.

Inform me when this document is cited in Scopus:

[Set alert](#) | [Set feed](#)

## Related documents

Showing the 2 most relevant related documents by all shared references:

[Markou, N.K., Athanasiou, M., Hroni, D.](#)  
[Disorders of respiration and sleep-disordered breathing in patients with chronic renal failure](#)  
(2006) *Current Respiratory Medicine Reviews*

[Sidhu, J., Ahuja, G., Aulakh, B.](#)  
[Changes in pulmonary function in patients with chronic renal failure after successful renal transplantation](#)  
(2007) *Scandinavian Journal of Urology and Nephrology*

[View all related documents based on all shared references or select the shared references to use](#)

Find more related documents in Scopus based on:

[Authors](#) | [Keywords](#)

## More By These Authors

The authors of this article have a total of **114 records** in Scopus:  
(Showing 5 most recent)

[Boskabady, M.H., Tabanfar, H., Gholamnezhad, Z., Sadeghnia, H.R.](#)

[Inhibitory effect of Zataria multiflora Boiss and carvacrol on histamine \(H<sub>1</sub>\) receptors of guinea-pig tracheal chains](#)  
(2012) *Fundamental and Clinical Pharmacology*

[Mirsadraee, M., Hazrati, S.M., Khakzad, M.R., Ghafarzadegan, K., Boskabady, M.H.](#)

[Add apps](#) | [Help](#)