



## Review of long-term adverse effects associated with the use of chemically-modified animal and nonanimal source hyaluronic acid dermal fillers

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Name: Reviewoflong-term ...  
Size: 5.961Mb  
Format: PDF  
Description: article  
[View/Open](#)

Permanent Link: <http://hdl.handle.net/1805/3602>  
Date: 2007  
Keywords: [hyaluronic acid](#) ; [Restylane®](#) ; [Hylaform®](#) ; [injectable dermal filler](#) ; [granuloma](#) ; [foreign body reaction](#)  
Cite As: Edwards PC, Fantasia JE. (2007) Review of long-term adverse effects associated with the use of chemically-modified animal and nonanimal source hyaluronic acid dermal fillers. Clin Interv Aging. 2(4):509-19.

### Abstract:

Abstract: Although only recently introduced, chemically-modified hyaluronic acid dermal fillers have gained widespread acceptance as "rede- fining" dermal fillers in the fields of dermatology and cosmetic facial surgery. Although hyaluronic acid-based dermal fillers have a low overall incidence of long term side effects, occasional adverse outcomes, ranging from chronic lymphoplasmacytic inflammatory reactions to classic foreign body-type granulomatous reactions have been documented. These long-term adverse events are reviewed.

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