**APPENDIX**

NEWCASTLE-OTTAWA QUALITY ASSESSMENT SCALE for CASE CONTROL STUDIES

Note: A study can be awarded a maximum of one star for each numbered item within the Selection and Exposure categories. A maximum of two stars can be given for Comparability.

**Selection**

***1)*** *Is the case definition adequate?*

a) yes, with independent validation ★  
b) yes, e.g. record linkage or based on self reports

c) no description

***2)*** *Representativeness of the cases*

a) consecutive or obviously representative series of cases ★

b) potential for selection biases or not stated

***3)*** *Selection of Controls*

a) community controls ★

b) hospital controls  
c) no description

***4)*** *Definition of Controls*

a) no history of disease (endpoint) ★

b) no description of source

**Comparability**

***1)*** *Comparability of cases and controls on the basis of the design or analysis*

a) study controls for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Select the most important factor.) ★  
b) study controls for any additional factor ★

(This criteria could be modified to indicate specific control for a second important factor.)

**Exposure**

***1)*** *Ascertainment of exposure*

a) secure record (e.g. surgical records) ★  
b) structured interview where blind to case/control status ★

c) interview not blinded to case/control status  
d) written self report or medical record only  
e) no description

***2)*** *Same method of ascertainment for cases and controls*

a) yes ★

b) no

***3)*** *Non-Response rate*

a) same rate for both groups ★  
b) non respondents described  
c) rate different and no designation

**Comprehensive list of search record titles, including those that were excluded from this review**

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