**Supplemental Material:**

1. Search Strategies

The search strategies were constructed during early July 2015 and run on July 13, 2015.

Ovid MEDLINE Search Strategy:

Universal precautions.sh. or universal.tw.

(preemptive adj5 precautions).mp.

1 or 2

Gloves, protective.sh or glove\*.tw or gloving.tw

(“barrier precaution” or “barrier precautions” or “contact precaution” or “contact precautions”).mp

4 or 5

(infection and prevention).tw. or exp Cross Infection/pc or exp Bacterial Infections/pc or exp Bacteria/pc or exp Drug Resistance, Microbial/pc

3 and 6 and 7

EMBASE Search Strategy:

‘universal precautions’/exp OR ‘universal precautions’ OR universal

Preemptive NEAR/5 precautions

1 OR 2

‘gloves protective’/exp OR glove\* OR gloving OR ‘barrier precaution’:ab,ti OR ‘barrier precautions’:ab,ti OR ‘contact precaution’:ab,ti OR ‘contact precautions’:ab,ti

‘cross infection’/exp/dm\_pc OR ‘bacterial infection’/exp/dm\_pc OR (‘bacterium’/exp AND ‘prevention’/lnk) OR (‘antibiotic resistance’/exp AND ‘prevention’/lnk)

3 AND 4 AND 5

Web of Science:

TS=universal precautions

TS=(glove\* OR gloving)

TS=(“barrier precaution” OR “barrier precautions” OR “contact precaution” OR “contact precautions”

#2 OR #3

TS=(“infection prevention” OR “cross infection” OR “bacterial infection” OR “drug resistance”)

#1 AND #4 AND #5

Cochrane Library:

Universal and (glov\* or gloving) and ((infection and prevention) or cross infection or bacterial infections or bacteria or drug resistance):ti,ab,kw

ClinicalTrials.gov:

universal and glove\* and ("cross infection" OR "bacterial infections" OR bacteria OR "drug resistance" OR (infection AND prevention))