Effectiveness of interventions to improve the public’s antimicrobial resistance awareness and behaviours associated with prudent use of antimicrobials: a systematic review

How to cite:
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Version: Supplementary Material

Link(s) to article on publisher’s website:
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Supplementary Table S1. An example of search strategy applied for MEDLINE database.

<table>
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<tr>
<th>MEDLINE</th>
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</table>

*Population*

| 15 | (public OR population OR community OR citizen* OR household* OR resident* OR consumer* OR carer* OR caregiver* OR people OR adult* OR men OR women OR mother* OR father* OR parent* OR student* OR pupil* OR children OR adolescent* OR teenager*):ti,ab |
| 16 | MH “Caregivers” |
| 17 | MH “Men” |
| 18 | MH “Women” |
MH "Parents"
MH "Fathers"
MH "Mothers"
MH "Students"
OR/17-22

**Intervention**

(intervention*):ti,ab

(training OR teaching OR education OR program* OR initiative* OR workshop* OR seminar* OR module* OR session* OR curriculum):ti,ab

MH "Teaching"
MH "Teaching Materials"
MH "Education"
MH "Models, Educational”
MH "Health Education”
MH "Education, Nonprofessional”
MH "Curriculum”

((written OR printed OR online OR oral OR disseminat* OR provi*) N2 (information OR advice OR resource* OR material*)):ti,ab

(pamphlet* OR handout* OR poster* OR leaflet* OR newsletter* OR brochure* OR booklet* OR TV OR television OR radio OR marketing OR advertising OR publicity OR campaign* OR "mass media" OR "communication media" OR outreach OR computer* OR Internet OR online OR website* OR "social media" OR "social network*" OR Facebook OR Twitter OR tweet OR blog* OR SMS OR "short messaging service*" OR text* OR email* OR podcast* OR smartphone* OR ((mobile OR cell OR smart) N1 (phone* OR telephone* OR app* OR application*))):ti,ab

MH "Consumer Health Information”
MH "Health Promotion”
MH "Health Communication”
MH "Persuasive Communication”
MH "Public Health”
MH "Audio Visual Aids”
MH “Manuals as Topic”
MH “Pamphlets”
MH “Advertising as Topic”
MH “Marketing”
MH “Social Marketing”
MH “Mass Media”
MH “Social Networking”
MH “Social Media”
OR/24-48

Outcomes

MH “Program Evaluation”
((behavioral N3 (change* OR changing OR alter* OR modification* OR modify OR modifying OR modifies OR modified)) OR intention*):ti,ab
MH “Motivation”
MH "Intention"

(behavior* OR belief* OR view* OR opinion* OR expectation* OR "anticipate* regret" OR knowledge OR awareness OR "health literacy" OR "risk perception*" OR "perceived risk*" OR "perceived susceptibility" OR "illness perception*" OR "treatment perception"):ti,ab
MH “Attitude to Health”
MH “Health Knowledge, Attitudes, Practice”
MH “Health Literacy”

(“perceived behavioral control” OR autonomy OR capacity OR "self-efficacy" OR competence OR confidence OR ability OR skill*):ti,ab
MH "Self Efficacy"

("perceived norm*" OR "injunctive norm*" OR "subjective norm*" OR "descriptive norm*" OR "moral norm*" OR "self-identity"):ti,ab
MH "Social Norms"

((medication* OR drug* OR antimicrobial* OR "anti-microbial*" OR anti-infection* OR "anti-infection*" OR antibacterial* OR "anti-bacterial*" OR antibiotic* OR "anti-biotic*") N4 (use OR used OR usage OR consumption OR purchase OR dispos* OR storage OR storing OR sharing OR shared OR expect* OR request*)):ti,ab
((inappropriat* OR irrational OR imprudent OR unnecessar* OR irresponsibl* OR misuse* OR improper* OR mistake* OR indiscriminat* OR suboptimum* OR bad OR overuse* OR excessiv* OR vary OR varied OR variation OR poor OR unsafe*)
N4 (use OR usage OR utili?e OR treatment OR consumption OR purchas* OR dispos* OR storage OR sharing OR shared OR expectation* OR request*)):ti,ab

((appropriat* OR rational OR prudent OR judicious* OR optimal* OR correct OR proper* OR responsibl* OR safe* OR good OR decreas* OR limit* OR curb* OR minimi?e* OR minimal* OR lessen* OR curtail* OR abate* OR restrict* OR lower* OR discontinue* OR delay*)
N4 (use OR usage OR utili?e OR treatment OR consumption OR purchas* OR dispos OR storage OR shared OR expectation* OR request*)):ti,ab

MH "Drug-Seeking Behavior"

(compliance OR concordance OR adherence):ti,ab

MH "Medication Adherence"

("self-car*" OR "self-manag*" OR "self-monitor*" OR "self-medicat*"):ti,ab

MH "Self Care"

MH "Self Medication"

OR/50-70

Combination of all search strings

AND/14,23,49,71

Limit 72 to year 2000
Supplementary Table S2. Data extraction tool designed for the purpose of the study.

<table>
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<th>Country</th>
<th>Language</th>
<th>Settings</th>
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<th>Study design</th>
<th>Population</th>
<th>Inclusion criteria</th>
<th>Exclusion criteria</th>
<th>Sample size (including power calculation &amp; statistical analysis)</th>
<th>Recruitment methods</th>
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<td>INTERVENTION</td>
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<td>Comparator(s)/control</td>
<td>Theoretical framework employed in intervention design</td>
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<td>Data collection methods</td>
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<td>Number of data collection points (post-intervention)</td>
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<td>ANALYSIS</td>
<td>FINDINGS/RESULTS</td>
<td>COMMENTS/NOTES</td>
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<td>Other analyses</td>
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<td>Findings/results (secondary outcomes)</td>
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<td>Conclusions</td>
<td>Comments/notes</td>
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</table>
Supplementary Table S3. Excluded studies with rationale.

Design other than RCT, NRT, CBA or NCBA study


15. McCarthy M. Many US parents have poor understanding of proper antibiotic use, study finds. *BMJ (Online)* 2015; **351**: h4009.


**Participants recruited from HC settings**

1. Alden DL, Tice AD, Berthiaume JT. Investigating approaches to improving appropriate antibiotic use among higher risk ethnic groups. *Hawaii Med J* 2010; **69**: 260-263.


**Context other than AMR**


**Outcomes not related to AMR awareness antimicrobial stewardship**


Full text not available


Other

*Conference abstract of already reviewed study*

Full text not available in English/inability to translate


Article that refers to already reviewed study


Protocol of already reviewed study


Majority (74.3%) of respondents were HC professionals